

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020006	Date Monumented 6/2/1998	Monumented By AHTD	County ASHLEY	Route 8	Job Number: R20014
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	456,405.0120	
Easting (M)	430,693.5720	
Elevation (M)*	51.311	
Northing (SFT)	1,497,388.7769	
Easting (SFT)	1,413,033.8275	
Elevation (SFT)*	168.343	

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

SUPERCEDED CONTROL			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

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

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>STELL</td> </tr> <tr> <td>Ref Mon # 2</td> <td>LISA</td> </tr> <tr> <td>Ref Mon # 3</td> <td>82 V 10 W</td> </tr> </table>	Ref Mon # 1	STELL	Ref Mon # 2	LISA	Ref Mon # 3	82 V 10 W	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	STELL							
Ref Mon # 2	LISA							
Ref Mon # 3	82 V 10 W							
Comments								

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 10 29.1502992

Longitude 91 40 15.3162588

Ellipsoid Height (M): 25.550

Geoid Height (M): -25.761

Location Description

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020006A	Date Monumented 6/2/1998	Monumented By AHTD	County ASHLEY	Route 8	Job Number: R20014
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	456,436.7660	
Easting (M)	430,220.7940	
Elevation (M)*	52.891	
Northing (SFT)	1,497,492.9565	
Easting (SFT)	1,411,482.7216	
Elevation (SFT)*	173.527	

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

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 STELL	
Ref Mon # 2 LISA	
Ref Mon # 3 82 V 10 W	

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 10 30.2299320

Longitude 91 40 33.5601300

Ellipsoid Height (M): 27.131

Geoid Height (M): -25.760

Location Description

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020007	Date Monumented 10/11/1999	Monumented By AHTD	County ASHLEY	Route 82	Job Number: 2735_1,020676
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	463,621.6588	0.0006
Easting (M)	421,948.4874	0.0006
Elevation (M)*	46.696	0.0010
Northing (SFT)	1,521,065.3922	
Easting (SFT)	1,384,342.6624	
Elevation (SFT)*	153.201	

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

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

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

Area Reference Monuments (used for Processing) Ref Mon # 1 ARMO Ref Mon # 2 MSGN Ref Mon # 3 IULM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Updated in April 2018 by crew S5101 during job 020676. Elevation by digital levels from USGS benchmarks t12 1932 and U12 1932. Position by static GPS holding elevation on 020034A.</td> </tr> </table>	Comments	Updated in April 2018 by crew S5101 during job 020676. Elevation by digital levels from USGS benchmarks t12 1932 and U12 1932. Position by static GPS holding elevation on 020034A.
Comments			
Updated in April 2018 by crew S5101 during job 020676. Elevation by digital levels from USGS benchmarks t12 1932 and U12 1932. Position by static GPS holding elevation on 020034A.			

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

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020007A	Date Monumented 10/11/1999	Monumented By AHTD	County ASHLEY	Route 82	Job Number: 2735_1,020676
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	463,821.6231 0.0006
Easting (M)	422,279.2769 0.0006
Elevation (M)*	52.445 0.0010
Northing (SFT)	1,521,721.4418
Easting (SFT)	1,385,427.9276
Elevation (SFT)*	172.062

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

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

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

Area Reference Monuments (used for Processing) Ref Mon # 1 ARMO Ref Mon # 2 MSGN Ref Mon # 3 IULM	Comments Updated in April 20189 by crew S5101 during job 020676. Elevation by digital levels from USGS benchmarks t12 1932 and U12 1932. Position by static GPS holding elevation on 020034A.
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Location Description			
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 425, LOCATED IN HAMBURG, GO EAST ON U.S. HIGHWAY 82 FOR 3.75 KM (2.33 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.45 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82. THE STATION IS A STANDARD 64mm CAP STAMPED "020007A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 386.539 METERS.			

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020008	Date Monumented 1/8/2001	Monumented By AHTD	County ASHLEY	Route 82	Job Number: 020323
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	452,060.6559	
Easting (M)	404,874.7498	
Elevation (M)*	50.687	
Northing (SFT)	1,483,135.6686	
Easting (SFT)	1,328,326.5750	
Elevation (SFT)*	166.296	

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

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

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

Area Reference Monuments (used for Processing)	
Ref Mon # 1	STELL
Ref Mon # 2	LISA
Ref Mon # 3	J 12 OFFSET

Comments
ELEVATION BY 3-WIRE FROM NGS POINT J 12

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020008A	Date Monumented 1/8/2001	Monumented By AHTD	County ASHLEY	Route 133	Job Number: 020323
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	452,113.0465	
Easting (M)	404,351.5415	
Elevation (M)*	46.309	
Northing (SFT)	1,483,307.5534	
Easting (SFT)	1,326,610.0157	
Elevation (SFT)*	151.931	

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

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 100%;" type="text" value="STELL"/> Ref Mon # 2 <input style="width: 100%;" type="text" value="LISA"/> Ref Mon # 3 <input style="width: 100%;" type="text" value="J 12 OFFSET"/>	<input style="width: 100%; height: 100%;" type="text" value="ELEVATION BY 3-WIRE FROM NGS POINT J 12"/>

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

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020009	Date Monumented 1/8/2001	Monumented By AHTD	County ASHLEY	Route 133	Job Number: 020323
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	455,725.6178	
Easting (M)	405,460.5267	
Elevation (M)*	44.873	
Northing (SFT)	1,495,159.7977	
Easting (SFT)	1,330,248.4113	
Elevation (SFT)*	147.220	

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

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 STELL Ref Mon # 2 LISA Ref Mon # 3 J 12 OFFSET	ELEVATION BY 3-WIRE FROM NGS POINT J 12

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 10 8.6488176

Longitude 91 56 29.2536420

Ellipsoid Height (M): 19.075

Geoid Height (M): -25.793

Location Description

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020009A	Date Monumented 1/8/2001	Monumented By AHTD	County ASHLEY	Route 133	Job Number: 020323
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	455,309.5702	
Easting (M)	405,450.8355	
Elevation (M)*	47.162	
Northing (SFT)	1,493,794.8149	
Easting (SFT)	1,330,216.6161	
Elevation (SFT)*	154.731	

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

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

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	METAL LIGHT POLE	136	19.30	63.3		020009
MK # 2	EAST END OF WOODEN SIGN (WERN MOVI	157	14.00	45.9		1 22 01.499347
MK # 3	GUY POLE	199	14.80	48.6		1 20 03.758625

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="STELL"/> Ref Mon # 2 <input type="text" value="LISA"/> Ref Mon # 3 <input type="text" value="J 12 OFFSET"/>	ELEVATION BY 3-WIRE FROM NGS POINT J 12

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020010	Date Monumented 3/8/2001	Monumented By AHTD	County ASHLEY	Route 425	Job Number: R20111
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	477,389.6106	
Easting (M)	413,831.5792	
Elevation (M)*	51.209	
Northing (SFT)	1,566,235.7474	
Easting (SFT)	1,357,712.4394	
Elevation (SFT)*	168.008	

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

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="STELL"/>	
Ref Mon # 2 <input type="text" value="S 197"/>	
Ref Mon # 3 <input type="text" value="AHTD MON 1"/>	

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020011	Date Monumented 3/8/2001	Monumented By AHTD	County ASHLEY	Route 425	Job Number: R20111
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	473,111.0382	
Easting (M)	415,485.7983	
Elevation (M)*	51.809	
Northing (SFT)	1,552,198.4645	
Easting (SFT)	1,363,139.6566	
Elevation (SFT)*	169.977	

Convergence Angle	0	5	35.1184347
Scale Factor	0.999994401		
Elevation Adjust. Factor	0.9999918695		
Combined Adjust. Factor	0.9999862706		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 19 32.5989588

Longitude 91 50 1.2435036

Ellipsoid Height (M): 26.168

Geoid Height (M): -25.641

Location Description

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020011A	Date Monumented 3/8/2001	Monumented By AHTD	County ASHLEY	Route 425	Job Number: R20111
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	473,555.3735	
Easting (M)	415,320.3568	
Elevation (M)*	55.235	
Northing (SFT)	1,553,656.2546	
Easting (SFT)	1,362,596.8706	
Elevation (SFT)*	181.217	

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

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="STELL"/>	
Ref Mon # 2 <input type="text" value="S 197"/>	
Ref Mon # 3 <input type="text" value="AHTD MON 1"/>	

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020012	Date Monumented 3/8/2001	Monumented By AHTD	County ASHLEY	Route 425	Job Number: R20111
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	468,985.3805	
Easting (M)	416,728.0738	
Elevation (M)*	59.885	
Northing (SFT)	1,538,662.8692	
Easting (SFT)	1,367,215.3555	
Elevation (SFT)*	196.473	

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

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="STELL"/>	
Ref Mon # 2 <input type="text" value="S 197"/>	
Ref Mon # 3 <input type="text" value="AHTD MON 1"/>	

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 010002	Date Monumented 10/25/2000	Monumented By AHTD	County ARKANSAS	Route 79	Job Number: 020140,020630
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	597,957.2955 0.0020
Easting (M)	434,916.8054 0.0020
Elevation (M)*	58.497 0.0000
Northing (SFT)	1,961,798.2270
Easting (SFT)	1,426,889.5524
Elevation (SFT)*	191.920

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

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

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

Area Reference Monuments (used for Processing) Ref Mon # 1 K 124 Ref Mon # 2 J 112 Ref Mon # 3 ALMYPORT AZ MK	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> *****Superceded Elev. 192.181' ***** Position and elevation updated by crew S5113 in August 2017 during job 020630.Elevation determined by digital level from 010015, which was determined by static GPS constraining the ortho. Ht. at ARPB. </td> </tr> </table>	Comments	*****Superceded Elev. 192.181' ***** Position and elevation updated by crew S5113 in August 2017 during job 020630.Elevation determined by digital level from 010015, which was determined by static GPS constraining the ortho. Ht. at ARPB.
Comments			
*****Superceded Elev. 192.181' ***** Position and elevation updated by crew S5113 in August 2017 during job 020630.Elevation determined by digital level from 010015, which was determined by static GPS constraining the ortho. Ht. at ARPB.			

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 010002A	Date Monumented 10/25/2000	Monumented By AHTD	County ARKANSAS	Route 79	Job Number: 020140.020630
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	597,603.1388 0.0020
Easting (M)	434,544.7392 0.0020
Elevation (M)*	58.736 0.0030
Northing (SFT)	1,960,636.2979
Easting (SFT)	1,425,668.8652
Elevation (SFT)*	192.703

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

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

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

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>K 124</td> </tr> <tr> <td>Ref Mon # 2</td> <td>J 112</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ALMYPORT AZ MK</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	K 124	Ref Mon # 2	J 112	Ref Mon # 3	ALMYPORT AZ MK	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>*****Superceded Elev. 192.703' ***** Position and elevation updated by crew S5113 in August 2017 during job 020630. Position and elevation updated by crew S5113 in August 2017 during job 020630.Elevation determined by digital level from 010015, which was determined by static GPS constraining the ortho. Ht. at ARPB.</td> </tr> </table>	Comments	*****Superceded Elev. 192.703' ***** Position and elevation updated by crew S5113 in August 2017 during job 020630. Position and elevation updated by crew S5113 in August 2017 during job 020630.Elevation determined by digital level from 010015, which was determined by static GPS constraining the ortho. Ht. at ARPB.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	K 124										
Ref Mon # 2	J 112										
Ref Mon # 3	ALMYPORT AZ MK										
Comments											
*****Superceded Elev. 192.703' ***** Position and elevation updated by crew S5113 in August 2017 during job 020630. Position and elevation updated by crew S5113 in August 2017 during job 020630.Elevation determined by digital level from 010015, which was determined by static GPS constraining the ortho. Ht. at ARPB.											

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 010003	Date Monumented 10/25/2000	Monumented By AHTD	County ARKANSAS	Route 79	Job Number: 020140
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 595,405.6352		Latitude 34 25 40.7764524
Easting (M) 430,876.1192		Longitude 91 39 50.6653668
Elevation (M)* 59.019		Ellipsoid Height (M): 32.524
		Geoid Height (M): -26.252

Northing (SFT) 1,953,426.6548		
Easting (SFT) 1,413,632.7344		
Elevation (SFT)* 193.632		

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

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

Location Description

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124	
Ref Mon # 2 J 112	
Ref Mon # 3 ALMYPORT AZ MK	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 010003A	Date Monumented 10/25/2000	Monumented By AHTD	County ARKANSAS	Route 79	Job Number: 020140
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 595,751.6030		Latitude 34 25 51.9459348
Easting (M) 431,422.8693		Longitude 91 39 29.2055364
Elevation (M)* 59.207		Ellipsoid Height (M): 32.696
		Geoid Height (M): -26.261

Northing (SFT) 1,954,561.7175		
Easting (SFT) 1,415,426.5304		
Elevation (SFT)* 194.248		

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

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

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

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124	
Ref Mon # 2 J 112	
Ref Mon # 3 ALMYPORT AZ MK	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 010011	Date Monumented 10/25/2004	Monumented By AHTD	County ARKANSAS	Route 153	Job Number: 020417
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	598,316.1949	
Easting (M)	461,836.5840	
Elevation (M)*		
Northing (SFT)	1,962,975.7161	
Easting (SFT)	1,515,208.8593	
Elevation (SFT)*		

Convergence Angle	0	22	35.9604343
Scale Factor	0.999945061		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

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

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>480016</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ALMYPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>OKOM</td> </tr> </table>	Ref Mon # 1	480016	Ref Mon # 2	ALMYPORT	Ref Mon # 3	OKOM	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	480016						
Ref Mon # 2	ALMYPORT						
Ref Mon # 3	OKOM						

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 34 27 10.2851856

Longitude 91 19 37.3039176

Ellipsoid Height (M): 32.247

Geoid Height (M): -26.519

Location Description

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 010011A	Date Monumented 10/25/2004	Monumented By AHTD	County ARKANSAS	Route 153	Job Number: 020417
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	598,264.4559	
Easting (M)	462,200.4100	
Elevation (M)*		
Northing (SFT)	1,962,805.9691	
Easting (SFT)	1,516,402.5118	
Elevation (SFT)*		

Convergence Angle	0	22	43.9307228
Scale Factor	0.999944999		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 480016	
Ref Mon # 2 ALMYPORT	
Ref Mon # 3 OKOM	

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 010012	Date Monumented 1/24/2008	Monumented By AHTD	County ARKANSAS	Route 63	Job Number: 001701
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	607,558.6789	
Easting (M)	440,677.4570	
Elevation (M)*	65.741	
Northing (SFT)	1,993,298.7657	
Easting (SFT)	1,445,789.2902	
Elevation (SFT)*	215.685	

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

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

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

Area Reference Monuments (used for Processing) Ref Mon # 1 ALMYPORT AZ Ref Mon # 2 ARLR Ref Mon # 3 590007, 590007A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3 WIRE LEVEL BY S5102 FROM NGS BENCH MARK N 113 1/24/2008.</td> </tr> </table>	Comments	3 WIRE LEVEL BY S5102 FROM NGS BENCH MARK N 113 1/24/2008.
Comments			
3 WIRE LEVEL BY S5102 FROM NGS BENCH MARK N 113 1/24/2008.			

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 010012A	Date Monumented 1/24/2008	Monumented By AHTD	County ARKANSAS	Route 63	Job Number: 001701
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	607,052.1239				
Easting (M)	440,632.5440				
Elevation (M)*	65.658				
Northing (SFT)	1,991,636.8432				
Easting (SFT)	1,445,641.9381				
Elevation (SFT)*	215.412				

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

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

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

Area Reference Monuments (used for Processing) Ref Mon # 1 ALMYPOR AZ Ref Mon # 2 ARLR Ref Mon # 3 590007, 590007A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3 WIRE LEVEL BY S5102 FROM NGS BENCH MARK N 113 1/24/2008.</td> </tr> </table>	Comments	3 WIRE LEVEL BY S5102 FROM NGS BENCH MARK N 113 1/24/2008.
Comments			
3 WIRE LEVEL BY S5102 FROM NGS BENCH MARK N 113 1/24/2008.			

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 010013	Date Monumented 9/11/2012	Monumented By AHTD	County ARKANSAS	Route 1	Job Number: 020538
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	582,740.4465	
Easting (M)	464,700.1820	
Elevation (M)*	60.615	0.0038
Northing (SFT)	1,911,874.2816	
Easting (SFT)	1,524,603.8471	
Elevation (SFT)*	198.869	

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

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

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

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

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	w/p		334	8.05	26.4	AZ Mark Station 010013A
MK # 2	pp		20	5.27	17.3	Geodetic Azimuth
MK # 3	CL			13.90	45.6	Grid Azimuth

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <p>Elevation based on NGS Benchmarks R226 and Y225</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 010013A	Date Monumented 9/11/2012	Monumented By AHTD	County ARKANSAS	Route 1	Job Number: 020538
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	583,032.8350	
Easting (M)	465,175.0972	
Elevation (M)*	52.405	0.0027
Northing (SFT)	1,912,833.5595	
Easting (SFT)	1,526,161.9647	
Elevation (SFT)*	171.932	

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

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

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

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	w/p	340	0.60	2.0	010013
MK # 2	center of metal gate	330	32.31	106.0	
MK # 3	CL		13.10	43.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Elevation based on NGS Benchmarks R226 and Y225

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 010014	Date Monumented 5/2/2013	Monumented By AHTD	County JEFFERSON	Route 11	Job Number: 020539
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	570,100.7207	
Easting (M)	442,400.6579	
Elevation (M)*	54.898	
Northing (SFT)	1,870,405.4478	
Easting (SFT)	1,451,442.8251	
Elevation (SFT)*	180.110	

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

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Digital Levels were ran from NGS BM J 112 by Crew S5102 during Job 020539. <div style="height: 100px; border: 1px solid black;"></div>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 010014-2	Date Monumented 5/25/2016	Monumented By AHTD	County ARKANSAS	Route 152	Job Number: 020582
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	586,388.5842	0.0020			
Easting (M)	438,635.0869	0.0020			
Elevation (M)*					
Northing (SFT)	1,923,843.2133				
Easting (SFT)	1,439,088.6143				
Elevation (SFT)*					

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

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

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

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

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARCM	GPS DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARCM, ARLR & ARWY.
Ref Mon # 2	ARLR	
Ref Mon # 3	ARPB, ARWY	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 010014A	Date Monumented 5/2/2013	Monumented By AHTD	County JEFFERSON	Route 11	Job Number: 020539
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	569,334.1958	
Easting (M)	442,415.6827	
Elevation (M)*	54.685	
Northing (SFT)	1,867,890.6074	
Easting (SFT)	1,451,492.1190	
Elevation (SFT)*	179.412	

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

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

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

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital Levels were ran from NGS BM J 112 by Crew S5102 during Job 020539.</td> </tr> </table>	Comments	Digital Levels were ran from NGS BM J 112 by Crew S5102 during Job 020539.
Comments			
Digital Levels were ran from NGS BM J 112 by Crew S5102 during Job 020539.			

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 010014A-2	Date Monumented 5/25/2016	Monumented By AHTD	County ARKANSAS	Route 343	Job Number: 020582
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	586,902.6171	0.0020			
Easting (M)	438,650.1023	0.0020			
Elevation (M)*					
Northing (SFT)	1,925,529.6696				
Easting (SFT)	1,439,137.8773				
Elevation (SFT)*					

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

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

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

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

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM</p> <p>Ref Mon # 2 ARLR</p> <p>Ref Mon # 3 ARPB, ARWY</p>	<p style="text-align: center;">Comments</p> <p>GPS DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARCM, ARLR & ARWY.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 010015	Date Monumented 8/31/2017	Monumented By AHTD	County ARKANSAS	Route 79	Job Number: 020630
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	598,368.5725 0.0020
Easting (M)	437,152.8837 0.0020
Elevation (M)*	59.993 0.0000
Northing (SFT)	1,963,147.5583
Easting (SFT)	1,434,225.7526
Elevation (SFT)*	196.828

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

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

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

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

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

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPB Ref Mon # 2 ARLR Ref Mon # 3 ARWY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> Position and elevation updated by crew S5113 in August 2017 during job 020630, which was determined by static GPS constraining the ortho. Ht. at ARPB. </td> </tr> </table>	Comments	Position and elevation updated by crew S5113 in August 2017 during job 020630, which was determined by static GPS constraining the ortho. Ht. at ARPB.
Comments			
Position and elevation updated by crew S5113 in August 2017 during job 020630, which was determined by static GPS constraining the ortho. Ht. at ARPB.			

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 010015A	Date Monumented 8/31/2017	Monumented By AHTD	County ARKANSAS	Route 79	Job Number: 020630
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	598,354.6519	0.0020			
Easting (M)	436,536.6206	0.0020			
Elevation (M)*	60.591	0.0000			
Northing (SFT)	1,963,101.8871				
Easting (SFT)	1,432,203.8961				
Elevation (SFT)*	198.788				

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

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

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

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

Area Reference Monuments (used for Processing)		<div style="border: 1px solid black; height: 100px; margin: 5px;"></div>
Ref Mon # 1	ARPB	
Ref Mon # 2	ARLR	
Ref Mon # 3	ARWY	

Comments	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 010016	Date Monumented 1/28/2019	Monumented By AHTD	County ARKANSAS	Route 144	Job Number: 020714
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	557,721.5048	0.0010			
Easting (M)	453,016.3402	0.0010			
Elevation (M)*	51.893				
Northing (SFT)	1,829,791.3037				
Easting (SFT)	1,486,271.1095				
Elevation (SFT)*	170.254				

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

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPB	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JAN. 2019 FOR JOB #020714 FROM 1ST ORDER NGS BM 4 W. PERFORMED SIMULTANEOUS STATIC OBSERVATIONS ON NGS 1ST ORDER BM's E 226 AND F 226 AND CONSTRAINED ORTHO HTS. ALONG WITH ORHTO HT. ON CORS SITE ARMO IN FINAL STATIC NETWORK ADJUSTMENT AS A CHECK.
Ref Mon # 2 ARMO	
Ref Mon # 3 MSGN	

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 010016A	Date Monumented 1/28/2019	Monumented By AHTD	County ARKANSAS	Route 144	Job Number: 020714
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	557,787.1769	0.0010			
Easting (M)	453,437.6599	0.0010			
Elevation (M)*	51.979				
Northing (SFT)	1,830,006.7629				
Easting (SFT)	1,487,653.3892				
Elevation (SFT)*	170.535				

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

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPB	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JAN. 2019 FOR JOB #020714 FROM 1ST ORDER NGS BM 4 W. PERFORMED SIMULTANEOUS STATIC OBSERVATIONS ON NGS 1ST ORDER BM's E 226 AND F 226 AND CONSTRAINED ORTHO HTS. ALONG WITH ORHTO HT. ON CORS SITE ARMO IN FINAL STATIC NETWORK ADJUSTMENT AS A CHECK.
Ref Mon # 2 ARMO	
Ref Mon # 3 MSGN	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 010017	Date Monumented 1/14/2021	Monumented By ARDOT	County ARKANSAS	Route SR-1	Job Number: 02X172
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	580,279.3907	0.0030			
Easting (M)	460,971.5522	0.0030			
Elevation (M)*					
Northing (SFT)	1,903,799.9677				
Easting (SFT)	1,512,370.8342				
Elevation (SFT)*					

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

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARLR	CONSTRAINED ORTHOMETRIC HTS. ON CORS SITES ARLR, ARMO, ARPB AND ON 1ST ORDER NGS BM B 117 IN FINAL STATIC NETWORK ADJUSTMENT
Ref Mon # 2: ARMO	
Ref Mon # 3: ARPB, MSGN	

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 010017A	Date Monumented 1/14/2021	Monumented By ARDOT	County ARKANSAS	Route SR-1	Job Number: 02X172
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	580,725.7374	0.0030			
Easting (M)	460,979.1615	0.0040			
Elevation (M)*					
Northing (SFT)	1,905,264.3568				
Easting (SFT)	1,512,395.7990				
Elevation (SFT)*					

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

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	CONSTRAINED ORTHOMETRIC HTS. ON CORS SITES ARLR, ARMO, ARPB AND ON 1ST ORDER NGS BM B 117 IN FINAL STATIC NETWORK ADJUSTMENT
Ref Mon # 2 ARMO	
Ref Mon # 3 ARPB, MSGN	

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020002	Date Monumented 2/25/1998	Monumented By AHTD	County ASHLEY	Route 133	Job Number: 020040
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	450,003.1430	
Easting (M)	403,781.7070	
Elevation (M)*	48.849	
Northing (SFT)	1,476,385.3117	
Easting (SFT)	1,324,740.4837	
Elevation (SFT)*	160.265	

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

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

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

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>LISA</td> </tr> <tr> <td>Ref Mon # 2</td> <td>STELL</td> </tr> <tr> <td>Ref Mon # 3</td> <td>G 65 OFFSET,A 200 OFFSET</td> </tr> </table>	Ref Mon # 1	LISA	Ref Mon # 2	STELL	Ref Mon # 3	G 65 OFFSET,A 200 OFFSET	<table style="width: 100%;"> <tr> <td style="width: 30%;">AZ Mark Station</td> <td>020002A</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>163 28 35.32853</td> </tr> <tr> <td>Grid Azimuth</td> <td>163 27 13.66807</td> </tr> </table> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>	AZ Mark Station	020002A	Geodetic Azimuth	163 28 35.32853	Grid Azimuth	163 27 13.66807
Ref Mon # 1	LISA												
Ref Mon # 2	STELL												
Ref Mon # 3	G 65 OFFSET,A 200 OFFSET												
AZ Mark Station	020002A												
Geodetic Azimuth	163 28 35.32853												
Grid Azimuth	163 27 13.66807												

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020003	Date Monumented 6/2/1998	Monumented By AHTD	County ASHLEY	Route 82	Job Number: R20014,020534
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	451,873.1734	
Easting (M)	415,663.4242	
Elevation (M)*	41.260	
Northing (SFT)	1,482,520.5697	
Easting (SFT)	1,363,722.4176	
Elevation (SFT)*	135.368	

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

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

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

Area Reference Monuments (used for Processing) Ref Mon # 1 STELL Ref Mon # 2 LISA Ref Mon # 3 82 V 10 W	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012</td> </tr> </table>	Comments	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012
Comments			
DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012			

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020003A	Date Monumented 6/2/1998	Monumented By AHTD	County ASHLEY	Route 82	Job Number: R20014,020534
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	451,831.9370	
Easting (M)	416,189.9002	
Elevation (M)*	41.218	
Northing (SFT)	1,482,385.2800	
Easting (SFT)	1,365,449.6976	
Elevation (SFT)*	135.228	

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

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

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

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					020003
MK # 2						274 34 43.44774
MK # 3						274 28 54.00549

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 STELL Ref Mon # 2 LISA Ref Mon # 3 82 V 10 W	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020004	Date Monumented 6/2/1998	Monumented By AHTD	County ASHLEY	Route 52	Job Number: R20014
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	451,797.4470	
Easting (M)	421,581.0640	
Elevation (M)*	40.374	
Northing (SFT)	1,482,272.1240	
Easting (SFT)	1,383,137.2075	
Elevation (SFT)*	132.461	

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

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

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

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					020004A
MK # 2						27 54 40.49957
MK # 3						27 46 54.48832

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 STELL	ELEVATION BY EDM FROM THIRD ORDER BENCH PER KIT. TRIG ELEVATION
Ref Mon # 2 LISA	
Ref Mon # 3 82 V 10 W	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020004A	Date Monumented 6/2/1998	Monumented By AHTD	County ASHLEY	Route 52	Job Number: R20014
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	452,032.2340	
Easting (M)	421,704.7580	
Elevation (M)*	38.890	
Northing (SFT)	1,483,042.4210	
Easting (SFT)	1,383,543.0269	
Elevation (SFT)*	127.591	

Convergence Angle	0	7	48.6621966
Scale Factor	1.000040529		
Elevation Adjust. Factor	0.9999938969		
Combined Adjust. Factor	1.0000344257		

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

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 STELL</p> <p>Ref Mon # 2 LISA</p> <p>Ref Mon # 3 82 V 10 W</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BY EDM FROM THIRD ORDER BENCH PER KIT. TRIG ELEVATION</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020005	Date Monumented 6/2/1998	Monumented By AHTD	County ASHLEY	Route 52	Job Number: R20014
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	452,122.8920	
Easting (M)	428,600.8310	
Elevation (M)*	47.062	
Northing (SFT)	1,483,339.8548	
Easting (SFT)	1,406,167.8930	
Elevation (SFT)*	154.403	

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

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

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

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

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 STELL</p> <p>Ref Mon # 2 LISA</p> <p>Ref Mon # 3 82 V 10 W</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020005A	Date Monumented 6/2/1998	Monumented By AHTD	County ASHLEY	Route 52	Job Number: R20014
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	451,594.7729	
Easting (M)	428,335.0710	
Elevation (M)*	45.927	
Northing (SFT)	1,481,607.1841	
Easting (SFT)	1,405,295.9788	
Elevation (SFT)*	150.679	

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

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

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

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>STELL</td> </tr> <tr> <td>Ref Mon # 2</td> <td>LISA</td> </tr> <tr> <td>Ref Mon # 3</td> <td>82 V 10 W</td> </tr> </table>	Ref Mon # 1	STELL	Ref Mon # 2	LISA	Ref Mon # 3	82 V 10 W	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	STELL							
Ref Mon # 2	LISA							
Ref Mon # 3	82 V 10 W							
Comments								

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 7 53.2549020

Longitude 91 41 46.8977568

Ellipsoid Height (M): 20.149

Geoid Height (M): -25.778

Location Description

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020012A	Date Monumented 3/8/2001	Monumented By AHTD	County ASHLEY	Route 425	Job Number: R20111
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	468,388.1889	
Easting (M)	416,907.7206	
Elevation (M)*	54.845	
Northing (SFT)	1,536,703.5831	
Easting (SFT)	1,367,804.7467	
Elevation (SFT)*	179.937	

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

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="STELL"/>	
Ref Mon # 2 <input type="text" value="S 197"/>	
Ref Mon # 3 <input type="text" value="AHTD MON 1"/>	

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020013	Date Monumented 3/8/2001	Monumented By AHTD	County ASHLEY	Route 425	Job Number: R20111,020534
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	463,067.8437	
Easting (M)	418,893.3668	
Elevation (M)*	52.071	
Northing (SFT)	1,519,248.4172	
Easting (SFT)	1,374,319.3209	
Elevation (SFT)*	170.837	

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

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

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

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>STELL</td> </tr> <tr> <td>Ref Mon # 2</td> <td>S 197</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD MON 1</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	STELL	Ref Mon # 2	S 197	Ref Mon # 3	AHTD MON 1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012</td> </tr> </table>	Comments	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012
Area Reference Monuments (used for Processing)											
Ref Mon # 1	STELL										
Ref Mon # 2	S 197										
Ref Mon # 3	AHTD MON 1										
Comments											
DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012											

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020013A	Date Monumented 3/8/2001	Monumented By AHTD	County ASHLEY	Route 425	Job Number: R20111,020534
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	463,539.6105	
Easting (M)	418,963.6056	
Elevation (M)*	51.072	
Northing (SFT)	1,520,796.2054	
Easting (SFT)	1,374,549.7627	
Elevation (SFT)*	167.559	

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

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

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

Area Reference Monuments (used for Processing) Ref Mon # 1 STELL Ref Mon # 2 S 197 Ref Mon # 3 AHTD MON 1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012</td> </tr> </table>	Comments	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012
Comments			
DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012			

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020014	Date Monumented 4/2/2001	Monumented By AHTD	County ASHLEY	Route 82	Job Number: 020321, 020771
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	469,779.2537	
Easting (M)	434,793.9794	
Elevation (M)*	53.478	
Northing (SFT)	1,541,267.4348	
Easting (SFT)	1,426,486.5807	
Elevation (SFT)*	175.451	

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

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

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

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>STELL</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD MON 1</td> </tr> <tr> <td>Ref Mon # 3</td> <td>82 V 10W</td> </tr> </table>	Ref Mon # 1	STELL	Ref Mon # 2	AHTD MON 1	Ref Mon # 3	82 V 10W	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	STELL							
Ref Mon # 2	AHTD MON 1							
Ref Mon # 3	82 V 10W							
Comments								

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 17 42.8008524

Longitude 91 37 35.1699240

Ellipsoid Height (M): 27.822

Geoid Height (M): -25.745

Location Description

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020014A	Date Monumented 4/2/2001	Monumented By AHTD	County ASHLEY	Route 82	Job Number: 020321, 020771
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 469,634.4856		Latitude 33 17 38.0488884
Easting (M) 435,238.5795		Longitude 91 37 18.0064200
Elevation (M)* 53.400		Ellipsoid Height (M): 27.744
		Geoid Height (M): -25.750

Northing (SFT) 1,540,792.4748		
Easting (SFT) 1,427,945.2396		
Elevation (SFT)* 175.197		

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

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

Location Description

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

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTHWEST CORNER OF MOBIL HOME	171	11.60	38.1	AZ Mark Station 020014
MK # 2	NORTHEAST CORNER OF MOBIL HOME	150	13.30	43.6	Geodetic Azimuth 288 14 51.77087
MK # 3	NONE				Grid Azimuth 288 02 09.65801

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 STELL</p> <p>Ref Mon # 2 AHTD MON 1</p> <p>Ref Mon # 3 82 V 10W</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020015 Reset	Date Monumented 3/22/2005	Monumented By AHTD	County ASHLEY	Route 82	Job Number: 020321
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	469,834.1191
Easting (M)	440,317.1150
Elevation (M)*	
Northing (SFT)	1,541,447.4391
Easting (SFT)	1,444,607.0681
Elevation (SFT)*	

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

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

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	020014, 090014, 090015
Ref Mon # 2	090014A, 020014A
Ref Mon # 3	82 V 10W

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020016	Date Monumented 4/2/2001	Monumented By AHTD	County ASHLEY	Route 82	Job Number: 020321,020260
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	470,378.9389	
Easting (M)	444,310.6081	
Elevation (M)*	39.720	
Northing (SFT)	1,543,234.9020	
Easting (SFT)	1,457,709.0534	
Elevation (SFT)*	130.316	

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

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="STELL"/>	
Ref Mon # 2 <input type="text" value="AHTD MON 1"/>	
Ref Mon # 3 <input type="text" value="82 V 10W"/>	

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020016A	Date Monumented 4/2/2001	Monumented By AHTD	County ASHLEY	Route 82	Job Number: 020321,020260
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	470,307.3651	
Easting (M)	444,969.6668	
Elevation (M)*	39.113	
Northing (SFT)	1,543,000.0803	
Easting (SFT)	1,459,871.3152	
Elevation (SFT)*	128.323	

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

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 STELL	
Ref Mon # 2 AHTD MON 1	
Ref Mon # 3 82 V 10W	

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020017	Date Monumented 12/17/2001	Monumented By AHTD	County ASHLEY	Route 133	Job Number: 020339
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	460,078.6811	
Easting (M)	407,023.0460	
Elevation (M)*		
Northing (SFT)	1,509,441.4729	
Easting (SFT)	1,335,374.7768	
Elevation (SFT)*		

Convergence Angle	0	2	31.7739127
Scale Factor	1.000021599		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

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

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>060013</td> </tr> <tr> <td>Ref Mon # 2</td> <td>020009</td> </tr> <tr> <td>Ref Mon # 3</td> <td>FOUNTAIN AZ</td> </tr> </table>	Ref Mon # 1	060013	Ref Mon # 2	020009	Ref Mon # 3	FOUNTAIN AZ	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	060013						
Ref Mon # 2	020009						
Ref Mon # 3	FOUNTAIN AZ						

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

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020017A	Date Monumented 12/17/2001	Monumented By AHTD	County ASHLEY	Route 133	Job Number: 020339
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	460,620.9560	
Easting (M)	407,047.3070	
Elevation (M)*		
Northing (SFT)	1,511,220.5865	
Easting (SFT)	1,335,454.3730	
Elevation (SFT)*		

Convergence Angle	0	2	32.3068683
Scale Factor	1.000020384		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

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

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

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 060013</p> <p>Ref Mon # 2 020009</p> <p>Ref Mon # 3 FOUNTAIN AZ</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020018	Date Monumented 12/17/2001	Monumented By AHTD	County ASHLEY	Route 133	Job Number: 020339
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	467,373.1070	
Easting (M)	406,997.5780	
Elevation (M)*		
Northing (SFT)	1,533,373.2685	
Easting (SFT)	1,335,291.2205	
Elevation (SFT)*		

Convergence Angle	0	2	31.3391908
Scale Factor	1.000005854		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 060013	
Ref Mon # 2 020009	
Ref Mon # 3 FOUNTAIN AZ	

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020018A	Date Monumented 12/17/2001	Monumented By AHTD	County ASHLEY	Route 133	Job Number: 020339
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	466,925.6650	
Easting (M)	407,023.7020	
Elevation (M)*		
Northing (SFT)	1,531,905.2859	
Easting (SFT)	1,335,376.9290	
Elevation (SFT)*		

Convergence Angle	0	2	31.8970565
Scale Factor	1.000006783		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

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

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

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	060013	
Ref Mon # 2	020009	
Ref Mon # 3	FOUNTAIN AZ	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020019	Date Monumented 12/17/2001	Monumented By AHTD	County ASHLEY	Route 133	Job Number: 020339
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	472,461.2320	
Easting (M)	408,632.2380	
Elevation (M)*		
Northing (SFT)	1,550,066.5587	
Easting (SFT)	1,340,654.2675	
Elevation (SFT)*		

Convergence Angle	0	3	6.7922205
Scale Factor	0.999995643		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

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

Area Reference Monuments (used for Processing)	
Ref Mon # 1	060013
Ref Mon # 2	020009
Ref Mon # 3	FOUNTAIN AZ

Comments

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020019A	Date Monumented 12/17/2001	Monumented By AHTD	County ASHLEY	Route 133	Job Number: 020339
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	471,788.2500	
Easting (M)	408,612.1640	
Elevation (M)*		
Northing (SFT)	1,547,858.6169	
Easting (SFT)	1,340,588.4081	
Elevation (SFT)*		

Convergence Angle	0	3	6.3446840
Scale Factor	0.999996958		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 060013	
Ref Mon # 2 020009	
Ref Mon # 3 FOUNTAIN AZ	

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020020	Date Monumented 3/5/2002	Monumented By AHTD	County ASHLEY	Route 8	Job Number: 001941
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	476,468.6591	
Easting (M)	406,536.4460	
Elevation (M)*	33.205	
Northing (SFT)	1,563,214.2591	
Easting (SFT)	1,333,778.3233	
Elevation (SFT)*	108.940	

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

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 060013	
Ref Mon # 2 020009	
Ref Mon # 3 FOUNTAIN AZ	

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 21 21.9191220

Longitude 91 55 47.1798732

Ellipsoid Height (M): 7.728

Geoid Height (M): -25.702

Location Description

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020020A	Date Monumented 3/5/2002	Monumented By AHTD	County ASHLEY	Route 8	Job Number: 001941
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	475,943.7913	
Easting (M)	406,797.8059	
Elevation (M)*	34.192	
Northing (SFT)	1,561,492.2553	
Easting (SFT)	1,334,635.8015	
Elevation (SFT)*	112.178	

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

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 060013 Ref Mon # 2 020009 Ref Mon # 3 FOUNTAIN AZ	

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 21 4.8765600

Longitude 91 55 37.0853436

Ellipsoid Height (M): 8.719

Geoid Height (M): -25.700

Location Description

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020021	Date Monumented 1/22/2003	Monumented By AHTD	County ASHLEY	Route 8	Job Number: 020383
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	458,165.0100	
Easting (M)	425,402.7030	
Elevation (M)*		
Northing (SFT)	1,503,163.0370	
Easting (SFT)	1,395,675.3681	
Elevation (SFT)*		

Convergence Angle	0	9	8.8624718
Scale Factor	1.000026017		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER, 480016	
Ref Mon # 2 VICKSBURG CORS	
Ref Mon # 3 WINNFIELD CORS	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020021A	Date Monumented 1/22/2003	Monumented By AHTD	County ASHLEY	Route 8	Job Number: 020383
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	458,231.2130	
Easting (M)	425,907.5730	
Elevation (M)*		
Northing (SFT)	1,503,380.2380	
Easting (SFT)	1,397,331.7624	
Elevation (SFT)*		

Convergence Angle	0	9	19.7747544
Scale Factor	1.000025868		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

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

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					020021
MK # 2						262 41 06
MK # 3						262 31 46

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER, 480016	
Ref Mon # 2 VICKSBURG CORS	
Ref Mon # 3 WINNFIELD CORS	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020022	Date Monumented 7/31/2003	Monumented By AHTD	County ASHLEY	Route 82	Job Number: 020399,020534
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Zone Arkansas South	Zone Code 302	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M)	451,987.6690	Latitude
Easting (M)	409,749.5284	Longitude
Elevation (M)*	46.419	Ellipsoid Height (M):
Northing (SFT)	1,482,896.2107	Geoid Height (M):
Easting (SFT)	1,344,319.9111	
Elevation (SFT)*	152.293	

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

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

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

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

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 Vicksburg 1 C.O.R.S.</p> <p>Ref Mon # 2 IULM C.O.R.S.</p> <p>Ref Mon # 3 020008</p>	<p style="text-align: center;">Comments</p> <p>DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020022A	Date Monumented 7/31/2003	Monumented By AHTD	County ASHLEY	Route 82	Job Number: 020399,020534
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Zone Arkansas South	Zone Code 302	
Horizontal Datum		
Northing (M)	452,001.3024	
Easting (M)	409,111.5436	
Elevation (M)*	45.680	
Northing (SFT)	1,482,940.9396	
Easting (SFT)	1,342,226.7893	
Elevation (SFT)*	149.869	

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

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

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

Area Reference Monuments (used for Processing) Ref Mon # 1 Vicksburg 1 C.O.R.S. Ref Mon # 2 IULM C.O.R.S. Ref Mon # 3 020008	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012</td> </tr> </table>	Comments	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012
Comments			
DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012			

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020023	Date Monumented 3/22/2005	Monumented By AHTD	County ASHLEY	Route 82	Job Number: 020321
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	470,372.7061	
Easting (M)	444,309.1500	
Elevation (M)*		
Northing (SFT)	1,543,214.4533	
Easting (SFT)	1,457,704.2696	
Elevation (SFT)*		

Convergence Angle	0	15	58.5850300
Scale Factor	0.999999957		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	POWER POLE	265	7.30	24.0		020023A
MK # 2	COMBINATION POLE	165	8.10	26.6		96 09 45
MK # 3						95 53 46

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 020014, 090014, 090015	
Ref Mon # 2 090014A, 020014A	
Ref Mon # 3 82 V 10W	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020023A	Date Monumented 3/22/2005	Monumented By AHTD	County ASHLEY	Route 82	Job Number: 020321
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	470,302.4151	
Easting (M)	444,989.7730	
Elevation (M)*		
Northing (SFT)	1,542,983.8402	
Easting (SFT)	1,459,937.2803	
Elevation (SFT)*		

Convergence Angle	0	16	13.3022504
Scale Factor	1.000000104		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	COMBINATION POLE	119	8.30	27.2	020023A
MK # 2	TELEPHONE POLE	277	20.50	67.3	276 10 00
MK # 3					275 53 46

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 020014, 090014, 090015	
Ref Mon # 2 090014A, 020014A	
Ref Mon # 3 82 V 10W	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020024	Date Monumented 3/22/2005	Monumented By AHTD	County ASHLEY	Route 82	Job Number: 020321
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	469,394.1231	
Easting (M)	439,616.0850	
Elevation (M)*		
Northing (SFT)	1,540,003.8855	
Easting (SFT)	1,442,307.1055	
Elevation (SFT)*		

Convergence Angle	0	14	16.9684499
Scale Factor	1.000001883		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	GUY POLE	70	4.70	15.4		
MK # 2	GUY	94	5.40	17.7		
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	020014, 090014, 090015
Ref Mon # 2	090014A, 020014A
Ref Mon # 3	82 V 10W

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020025	Date Monumented 11/17/2005	Monumented By AHTD	County ASHLEY	Route 133	Job Number: 020240
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	449,738.4869	
Easting (M)	403,863.8770	
Elevation (M)*	49.002	
Northing (SFT)	1,475,517.0191	
Easting (SFT)	1,325,010.0698	
Elevation (SFT)*	160.767	

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

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 020002,LA 1	
Ref Mon # 2 CSAL	
Ref Mon # 3 IULM	

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

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

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

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020026	Date Monumented 11/17/2005	Monumented By AHTD	County ASHLEY	Route 133	Job Number: 020240
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	443,281.7070	
Easting (M)	405,831.9370	
Elevation (M)*	49.059	
Northing (SFT)	1,454,333.4004	
Easting (SFT)	1,331,466.9466	
Elevation (SFT)*	160.954	

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

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

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

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					020026A	
MK # 2					182 44 27	
MK # 3					182 42 21	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 020002,LA 1	
Ref Mon # 2 CSAL	
Ref Mon # 3 IULM	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020026A	Date Monumented 11/17/2005	Monumented By AHTD	County ASHLEY	Route 133	Job Number: 020240
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	442,796.2419
Easting (M)	405,808.9940
Elevation (M)*	48.043
Northing (SFT)	1,452,740.6703
Easting (SFT)	1,331,391.6745
Elevation (SFT)*	157.621

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

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

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: 020002,LA 1</p> <p>Ref Mon # 2: CSAL</p> <p>Ref Mon # 3: IULM</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020027	Date Monumented 11/17/2005	Monumented By AHTD	County ASHLEY	Route 133	Job Number: 020240
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	437,957.5138
Easting (M)	406,291.7270
Elevation (M)*	34.706
Northing (SFT)	1,436,865.6099
Easting (SFT)	1,332,975.4410
Elevation (SFT)*	113.865

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

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

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

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	power pole with guy	337	10.60	34.8		LA 1
MK # 2						173 27 26
MK # 3						173 25 10

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	020002,LA 1
Ref Mon # 2	CSAL
Ref Mon # 3	IULM

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020028A	Date Monumented 11/10/2010	Monumented By AHTD	County ASHLEY	Route 165	Job Number: 020509, 020675
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	470,562.0733	0.0020	
Easting (M)	447,162.9454	0.0020	
Elevation (M)*	37.164		

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

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

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	Elev established by crew s5105 from USGS 3rd order BM 11LMT 1977 converted to NAVD 88 in February 2011 for project 020509 *****SUPERCEDED DED GEOID HT. IS -25.858m REF. MONUMENTS ARE 82 V 10W, CSAL & MSCL *****STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS
Ref Mon # 2 ARMO	
Ref Mon # 3 IULM, MSGN	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020029	Date Monumented 10/4/2011	Monumented By AHTD	County ASHLEY	Route 425	Job Number: 020534
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	438,164.8822	
Easting (M)	413,504.3425	
Elevation (M)*	47.398	
Northing (SFT)	1,437,545.9510	
Easting (SFT)	1,356,638.8304	
Elevation (SFT)*	155.507	

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

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

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

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

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020029A	Date Monumented 10/4/2011	Monumented By AHTD	County ASHLEY	Route 425	Job Number: 020534
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	438,675.9118	
Easting (M)	413,529.5976	
Elevation (M)*	47.249	
Northing (SFT)	1,439,222.5540	
Easting (SFT)	1,356,721.6881	
Elevation (SFT)*	155.017	

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

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

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

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012</td> </tr> </table>	Comments	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012
Comments			
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 020030	Date Monumented 10/4/2011	Monumented By AHTD	County ASHLEY	Route 425	Job Number: 020534
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	443,002.0087	
Easting (M)	414,324.4590	
Elevation (M)*	37.431	
Northing (SFT)	1,453,415.7569	
Easting (SFT)	1,359,329.4959	
Elevation (SFT)*	122.805	

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

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

Location Reference Marks							
Description			Azimuth		Distance		
					Meters	Feet	
MK # 1	CMP		270		4.88	16.0	AZ Mark Station
MK # 2	CL of county road A-261		355		4.27	14.0	Geodetic Azimuth
MK # 3	Fiber Optic Cable Marker		210		17.98	59.0	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012</td> </tr> </table>	Comments	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020030A	Date Monumented 10/4/2011	Monumented By AHTD	County ASHLEY	Route 425	Job Number: 020534
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	443,466.5892	
Easting (M)	414,345.8431	
Elevation (M)*	39.024	
Northing (SFT)	1,454,939.9681	
Easting (SFT)	1,359,399.6536	
Elevation (SFT)*	128.031	

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

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

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

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

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;"> DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012 </td> </tr> </table>	Comments	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012
Comments			
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 020031	Date Monumented 10/4/2011	Monumented By AHTD	County ASHLEY	Route 425	Job Number: 020534
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	447,991.5381	
Easting (M)	415,235.9537	
Elevation (M)*	42.171	
Northing (SFT)	1,469,785.5712	
Easting (SFT)	1,362,319.9581	
Elevation (SFT)*	138.357	

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

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

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

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012</td> </tr> </table>	Comments	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012
Comments			
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 020031A	Date Monumented 10/4/2011	Monumented By AHTD	County ASHLEY	Route 425	Job Number: 020534
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	448,372.4081	
Easting (M)	415,573.4409	
Elevation (M)*	38.970	
Northing (SFT)	1,471,035.1422	
Easting (SFT)	1,363,427.1974	
Elevation (SFT)*	127.853	

Convergence Angle	0	5	36.1426035
Scale Factor	1.000049608		
Elevation Adjust. Factor	0.9999938844		
Combined Adjust. Factor	1.0000434921		

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

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

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012</td> </tr> </table>	Comments	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012
Comments			
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 020032	Date Monumented 10/4/2011	Monumented By AHTD	County ASHLEY	Route 425	Job Number: 020534
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	455,838.7954	
Easting (M)	417,138.8522	
Elevation (M)*	46.787	
Northing (SFT)	1,495,531.1146	
Easting (SFT)	1,368,563.0509	
Elevation (SFT)*	153.500	

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

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

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

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

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <p>DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012</p>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 020032A	Date Monumented 10/4/2011	Monumented By AHTD	County ASHLEY	Route 425	Job Number: 020534
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	455,872.9730	
Easting (M)	416,607.4290	
Elevation (M)*	44.706	
Northing (SFT)	1,495,643.2456	
Easting (SFT)	1,366,819.5400	
Elevation (SFT)*	146.673	

Convergence Angle	0	5	58.7420941
Scale Factor	1.000031296		
Elevation Adjust. Factor	0.9999929842		
Combined Adjust. Factor	1.0000242800		

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

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

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

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;"> DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012 </td> </tr> </table>	Comments	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012
Comments			
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 020033	Date Monumented 10/5/2011	Monumented By AHTD	County ASHLEY	Route 425	Job Number: 020534
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	458,376.3139	
Easting (M)	418,190.6107	
Elevation (M)*	50.076	
Northing (SFT)	1,503,856.2899	
Easting (SFT)	1,372,013.6953	
Elevation (SFT)*	164.291	

Convergence Angle	0	6	33.0438438
Scale Factor	1.000025495		
Elevation Adjust. Factor	0.9999921415		
Combined Adjust. Factor	1.0000176363		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL of a gravel drive to church		6.09	20.0
MK # 2	C.M.P.		3.05	10.0
MK # 3	12" red oak		30.18	99.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012</td> </tr> </table>	Comments	DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 020033A	Date Monumented 10/5/2011	Monumented By AHTD	County ASHLEY	Route 425	Job Number: 020534
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	458,974.2966	
Easting (M)	418,580.9921	
Elevation (M)*	54.857	
Northing (SFT)	1,505,818.1714	
Easting (SFT)	1,373,294.4716	
Elevation (SFT)*	179.977	

Convergence Angle	0	6	41.5039289
Scale Factor	1.000024132		
Elevation Adjust. Factor	0.9999913912		
Combined Adjust. Factor	1.0000155230		

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

Location Description			
<p>Starting at the junction of 425 & 82 Hamburg go south on the combined highway for 2.1 miles to the station on the left. The station is a standard alum. cap stamped(020033A-2011) and is set on a 4 foot 5/8" rebar. It is 49 foot east of the CL of highway 425 and is 21.5 south south east of a witness post. And as described above. Lat. 33.11 54 Lon. 091.48 03</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Power Pole		24.70	81.0	AZ Mark Station
MK # 2	Power Pole and U.M.		21.60	70.9	Geodetic Azimuth
MK # 3	6" blazed pine tree		10.00	32.8	Grid Azimuth

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <p>DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020034	Date Monumented 4/2/2018	Monumented By AR DOT S5101	County ASHLEY	Route 82	Job Number: 020676
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	467,341.4750	0.0020			
Easting (M)	428,400.0823	0.0020			
Elevation (M)*	52.109	0.0023			
Northing (SFT)	1,533,269.4892				
Easting (SFT)	1,405,509.2700				
Elevation (SFT)*	170.961				

Convergence Angle	0	10	14.2152722		
Scale Factor	1.000006002				
Elevation Adjust. Factor	0.9999918225				
Combined Adjust. Factor	0.9999978244				

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

Location Description					
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82 LOCATED IN HAMBURG, ASHLEY COUNTY ARKANSAS. TRAVEL EAST ALONG U.S. HIGHWAY 82 FOR 6.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS 36 FEET SOUTH OF THE CENTERLINE OF U.S. HIGHWAY 82, 15 FEET EAST OF THE CENTER OF A DIRT FIELD ENTRANCE, 36 FEET NORTH OF A WITNESS POST. THE STATION IS A STANDARD 2 INCH ALUMINUM CAP STAMPED "020034 2018" SET ON TOP OF A 4 FOOT LONG REBAR DRIVE 0.8 FEET BELOW THE GROUND SURFACE.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	UTILITY MARKER (PHONE)	65		6.25	20.5
MK # 2	POWER POLE	355		9.60	31.5
MK # 3	IRRIGATION WELL	15		20.88	68.5

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARMO	<p>April 2018 by crew S5101 during job 020676. Elevation by digital levels from USGS benchmarks t12 1932 and U12 1932. Position by static GPS holding elevation on 020034A.</p>
Ref Mon # 2	MSGN	
Ref Mon # 3	IULM	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020034A	Date Monumented 4/2/2018	Monumented By AR DOT S5101	County ASHLEY	Route 82	Job Number: 020676
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	467,408.6486	0.0020			
Easting (M)	428,768.1511	0.0020			
Elevation (M)*	53.512	0.0023			
Northing (SFT)	1,533,489.8746				
Easting (SFT)	1,406,716.8424				
Elevation (SFT)*	175.562				

Convergence Angle	0	10	22.1799169		
Scale Factor	1.000005865				
Elevation Adjust. Factor	0.9999916024				
Combined Adjust. Factor	0.9999974673				

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

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	GUY POLE		290	2.13	7.0
MK # 2	TELEPHONE BOX		240	10.05	33.0
MK # 3	DOUBLE GUY WIRE		200	5.79	19.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="ARMO"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="MSGN"/> Ref Mon # 3 <input style="width: 150px;" type="text" value="IULM"/>	April 2018 by crew S5101 during job 020676. Elevation by digital levels from USGS benchmarks t12 1932 and U12 1932. Position by static GPS holding elevation on 020034A.

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82 LOCATED IN HAMBURG, ASHLEY COUNTY ARKANSAS. TRAVEL EAST ALONG U.S. HIGHWAY 82 FOR 7.0 MILES TO THE STATION ON THE RIGHT. THE STATION IS 40 FEET SOUTH OF THE CENTERLINE OF U.S. HIGHWAY 82, 85 FEET WEST OF THE CENTER OF A GRAVEL ROAD (ASHLEY COUNTY 912) , 5 FEET SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 2 INCH ALUMINUM CAP STAMPED "020034A 2018" SET ON TOP OF A 4 FOOT LONG REBAR DRIVE 0.8 FEET BELOW THE GROUND SURFACE.

AZ Mark Station	020034
Geodetic Azimuth	
Grid Azimuth	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020035	Date Monumented 6/13/2018	Monumented By ARDOT	County ASHLEY	Route 8	Job Number: HWY 8 DRAINAGE STUDY
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	479,051.6402	0.0020			
Easting (M)	404,763.8013	0.0020			
Elevation (M)*					
Northing (SFT)	1,571,688.5896				
Easting (SFT)	1,327,962.5714				
Elevation (SFT)*					

Convergence Angle	0	1	43.1548069		
Scale Factor	0.999983350				
Elevation Adjust. Factor					
Combined Adjust. Factor					

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARMO	
Ref Mon # 2: ARCM	
Ref Mon # 3: IULM	

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	22	45.7939992
Longitude	91	56	55.6931868
Ellipsoid Height (M):	5.175	0.0420	
Geoid Height (M):	-25.815	0.0420	

Location Description
<p>"TO REACH THE STATION MARK FROM THE JUNCTION OF SR-8 AND SR-160, WEST OF FOUNTAIN HILL, GO WEST ON SR-8 0.3 MILES TO THE STATION ON THE RIGHT. 21' NORTH OF THE C/L OF SR-8. 34.7' SOUTH OF A WITNESS POST. THE MARK IS A STANDARD 2½" CAP STAMPED "220035 2018" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND."</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020035A	Date Monumented 6/13/2018	Monumented By ARDOT	County ASHLEY	Route 8	Job Number: HWY 8 DRAINAGE STUDY
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	478,997.7928	0.0030			
Easting (M)	405,214.3285	0.0030			
Elevation (M)*					
Northing (SFT)	1,571,511.9252				
Easting (SFT)	1,329,440.6761				
Elevation (SFT)*					

Convergence Angle	0	1	52.9098314		
Scale Factor	0.999983447				
Elevation Adjust. Factor					
Combined Adjust. Factor					

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

Location Description					
<p>"THE STATION MARK IS ON THE NORTH SIDE THE JUNCTION OF SR-8 AND SR-160, WEST OF FOUNTAIN HILL. 98' SOUTH OF THE C/L OF SR-8. 31' WEST OF THE C/L OF SR-160. THE MARK IS A STANDARD 2½" CAP STAMPED "220035A 2018" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND."</p>					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE W/GUY	4	44.50	146.0	
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: ARMO</p> <p>Ref Mon # 2: ARCM</p> <p>Ref Mon # 3: IULM</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020036	Date Monumented 1/26/2021	Monumented By ARDOT	County ASHLEY	Route US-82	Job Number: 020675, 020772
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	470,372.7221	0.0020
Easting (M)	444,309.2335	0.0020
Elevation (M)*		
Northing (SFT)	1,543,214.5058	
Easting (SFT)	1,457,704.5436	
Elevation (SFT)*		

Convergence Angle	0	15	58.5868393
Scale Factor	0.999999957		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	255	7.31	24.0
MK # 2	TELEPHONE BOX	255	7.62	25.0
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARMO</td> </tr> <tr> <td>Ref Mon # 3</td> <td>IULM, MSGN</td> </tr> </table>	Ref Mon # 1	ARCM	Ref Mon # 2	ARMO	Ref Mon # 3	IULM, MSGN	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243 </td> </tr> </table>	Comments	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
Ref Mon # 1	ARCM								
Ref Mon # 2	ARMO								
Ref Mon # 3	IULM, MSGN								
Comments									
STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243									

Location Description

020036 TO REACH THE STATION MARK FROM THE JCT OF US-82 & US-165 IN MONTROSE, GO WEST ON US-82 1.8 MILES TO STATION ON LEFT. 53' SOUTH OF C/L US-82. THE MARK IS A STANDARD 2½" CAP STAMPED "020036 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	020036A
Geodetic Azimuth	
Grid Azimuth	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020036A	Date Monumented 1/26/2021	Monumented By ARDOT	County ASHLEY	Route US-82	Job Number: 020675, 020772
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	470,302.4362	0.0020	
Easting (M)	444,989.2667	0.0020	
Elevation (M)*			
Northing (SFT)	1,542,983.9094		
Easting (SFT)	1,459,935.6192		
Elevation (SFT)*			

Convergence Angle	0	16	13.2912974
Scale Factor	1.000000104		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	130	8.84	29.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
Ref Mon # 2 ARMO	
Ref Mon # 3 IULM, MSGN	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	33 17 58.3980252
Longitude	91 31 1.0193088
Ellipsoid Height (M):	12.903 0.0190
Geoid Height (M):	-25.924 0.0190

Location Description
020036A TO REACH THE STATION MARK FROM THE JCT OF US-82 & US-165 IN MONTROSE, GO WEST ON US-82 1.4 MILES TO STATION ON LEFT. 50' SOUTH OF C/L US-82. THE MARK IS A STANDARD 2½" CAP STAMPED "020036A 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030001	Date Monumented 6/21/1994	Monumented By AHTD	County BAXTER	Route 5	Job Number: 9952,090319,012231,090647
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	221,903.3108 0.0020
Easting (M)	366,531.4334 0.0020
Elevation (M)*	230.145 0.0047
Northing (SFT)	728,027.7788
Easting (SFT)	1,202,528.5444
Elevation (SFT)*	755.069

Convergence Angle	0 13 0.8789946
Scale Factor	1.000021194
Elevation Adjust. Factor	0.9999638840
Combined Adjust. Factor	0.9999850772

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	19	58.2941424
Longitude	92	22	21.9496332
Ellipsoid Height:	201.742		
Grid Northing (Meters)	221,903.3103		
Grid Easting (Meters)	366,531.4194		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	2" CORNER POST IN CHAIN LINK FENCE	2	2.70	8.9
MK # 2	NBC IN COMBINATION POLE	276	18.60	61.0
MK # 3	NBC IN COMBINATION POLE	81	24.90	81.7

Area Reference Monuments (used for Processing) Ref Mon # 1 HOMEPORT Ref Mon # 2 FLIPPORT Ref Mon # 3 NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231. SUPERCEDED*****ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM NGS BM A 38 RESET DURING JOB 090319.***** </td> </tr> </table>	Comments	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231. SUPERCEDED*****ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM NGS BM A 38 RESET DURING JOB 090319.*****
Comments			
ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231. SUPERCEDED*****ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM NGS BM A 38 RESET DURING JOB 090319.*****			

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030001A	Date Monumented 6/21/1994	Monumented By AHTD	County BAXTER	Route 5	Job Number: 9952,090319,012231
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	221,880.7548 0.0040
Easting (M)	366,909.6273 0.0040
Elevation (M)*	229.979
Northing (SFT)	727,953.7764
Easting (SFT)	1,203,769.3356
Elevation (SFT)*	754.524

Convergence Angle	0 12 52.0531977
Scale Factor	1.000021151
Elevation Adjust. Factor	0.9999639100
Combined Adjust. Factor	0.9999850603

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

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN COMBINATION POLE		112		13.60	44.6
MK # 2	NBC IN COMBINATION POLE		248		13.15	43.1
MK # 3	NONE					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="HOMEPORT"/> Ref Mon # 2 <input type="text" value="FLIPPORT"/> Ref Mon # 3 <input type="text" value="NONE"/>	Cross Reference Jobs: 009942 and 009973 <div style="border: 1px solid black; height: 100px; width: 100%;"></div>

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:	GEOID12A		
Latitude	36	19	57.6085944
Longitude	92	22	6.7818432
Ellipsoid Height (M):	201.490	0.0140	
Geoid Height (M):	-28.362		

Location Description
FROM THE COURTHOUSE IN MOUNTAIN HOME, GO SOUTH ON HWY. 5 (WHICH IS ALSO 9TH STREET), FOR 1.94 KM (1.21 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.80 METERS SOUTH OF THE CENTERLINE OF HWY. 5, 6.70 METERS WEST OF THE CENTER OF WAVERLY ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "030001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030002	Date Monumented 6/21/1994	Monumented By AHTD	County BAXTER	Route 5	Job Number: 9952
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	223,529.0961	
Easting (M)	364,565.8630	
Elevation (M)*	276.722	
Northing (SFT)	733,361.7095	
Easting (SFT)	1,196,079.8355	
Elevation (SFT)*	907.879	

Convergence Angle	0	13	46.8907079
Scale Factor	1.000024553		
Elevation Adjust. Factor	0.9999565752		
Combined Adjust. Factor	0.9999811271		

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

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN COMBINATION POLE		301	30.30	99.4
MK # 2	NBC IN COMBINATION POLE		155	18.65	61.2
MK # 3	"PHILLIPS 66" METAL SIGN POST		145	16.65	54.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOMEPORT	Cross Reference Jobs: 009942 and 009973
Ref Mon # 2 FLIPPORT	
Ref Mon # 3 NONE	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030002A	Date Monumented 6/21/1994	Monumented By AHTD	County BAXTER	Route 5	Job Number: 9952
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Zone Arkansas North	Zone Code 301	Vertical Determined By: Level - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 223,741.7010		Latitude 36 20 57.6514428
Easting (M) 364,301.8990		Longitude 92 23 51.6408144
Elevation (M)* 290.438		Ellipsoid Height (M): 261.292
Northing (SFT) 734,059.2307		Geoid Height (M): -29.146
Easting (SFT) 1,195,213.8136		
Elevation (SFT)* 952.879		

Convergence Angle	0	13	53.0705416
Scale Factor	1.000024997		
Elevation Adjust. Factor	0.9999544229		
Combined Adjust. Factor	0.9999794187		

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

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN POWER POLE	315		25.85	84.8
MK # 2	NBC IN POWER POLE	129		29.20	95.8
MK # 3	NONE				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOMEPORT	Cross Reference Jobs: 009942 and 009973
Ref Mon # 2 FLIPPORT	
Ref Mon # 3 NONE	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030003	Date Monumented 11/1/1999	Monumented By AHTD	County BAXTER	Route 412	Job Number: R90095,R90097
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	216,460.8990	
Easting (M)	353,146.5340	
Elevation (M)*	179.514	
Northing (SFT)	710,172.1328	
Easting (SFT)	1,158,614.9203	
Elevation (SFT)*	588.956	

Convergence Angle	0	18	12.4940638
Scale Factor	1.000010256		
Elevation Adjust. Factor	0.9999718292		
Combined Adjust. Factor	0.9999820849		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	HOMEPORT
Ref Mon # 2	N 37
Ref Mon # 3	TRI COUNTY

Comments

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 16 59.7599868
Longitude	92 31 17.4629676
Ellipsoid Height (M):	151.085
Geoid Height (M):	-28.359

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 178, LOCATED ON THE WEST SIDE OF FLIPPIN, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 9.17 KM (5.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.40 METERS EAST OF THE CENTER OF A PAVED ENTRANCE, 14.00 METERS NORTH OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 0.63 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "030003 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 828.120 METERS.</p>

AZ Mark Station	450001
Geodetic Azimuth	282 26 54.37047
Grid Azimuth	282 45 06.70437

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030004	Date Monumented 5/30/2001	Monumented By AHTD	County BAXTER	Route 62	Job Number: R90094,012231
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	224,692.0523	0.0030	
Easting (M)	369,718.7955	0.0030	
Elevation (M)*	271.035		

Northing (SFT)	737,177.1749		
Easting (SFT)	1,212,985.7482		
Elevation (SFT)*	889.221		

Convergence Angle	0	11	46.7359288
Scale Factor	1.000027049		
Elevation Adjust. Factor	0.9999574676		
Combined Adjust. Factor	0.9999845154		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	21	29.1381048
Longitude	92	20	14.5345848
Ellipsoid Height:	242.722		
Grid Northing (Meters)	224,692.0515		
Grid Easting (Meters)	369,718.7660		

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62, HIGHWAY 62B AND U.S. HIGHWAY 412 EAST, LOCATED ON THE EAST SIDE OF MOUNTAIN HOME, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 0.145 KM. (0.09 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.00 METERS EAST OF THE CENTERLINE OF WEST BOUND U.S. HIGHWAY 62, 11.11 METERS WEST OF THE CENTERLINE OF EAST BOUND U.S. HIGHWAY 62, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "030004 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 519.248 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 FAA 7M9 A</p> <p>Ref Mon # 2 CRAWFORD</p> <p>Ref Mon # 3 HOMEPORT</p>	<p style="text-align: center;">Comments</p> <p>ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030004A	Date Monumented 5/30/2001	Monumented By AHTD	County BAXTER	Route 62	Job Number: R90094,012231
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	224,172.8786	0.0030	
Easting (M)	369,710.6337	0.0030	
Elevation (M)*	261.787		

Northing (SFT)	735,473.8525		
Easting (SFT)	1,212,958.9707		
Elevation (SFT)*	858.880		

Convergence Angle	0	11	46.8848905
Scale Factor	1.000025948		
Elevation Adjust. Factor	0.9999589188		
Combined Adjust. Factor	0.9999848657		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	21	12.2941584
Longitude	92	20	14.7902028
Ellipsoid Height:	233.481		
Grid Northing (Meters)	224,172.8686		
Grid Easting (Meters)	369,710.6135		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	CRAWFORD
Ref Mon # 3	HOMEPORT

Comments

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030005	Date Monumented 5/30/2001	Monumented By AHTD	County BAXTER	Route 62	Job Number: R90094
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	226,053.9459	
Easting (M)	375,970.7919	
Elevation (M)*		
Northing (SFT)	741,645.3208	
Easting (SFT)	1,233,497.5064	
Elevation (SFT)*		

Convergence Angle	0	9	20.9072355
Scale Factor	1.000030008		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 , U.S. HIGHWAY 412 AND STATE HIGHWAY 101 NORTH, LOCATED ABOUT 5 MILES EAST OF MOUNTAIN HOME GO EAST ON U.S. HIGHWAY 62 FOR 0.467 KM (0.29 MI) TO THE STATION ON THE RIGHT. THE STATION IS 20.17 METERS NORTHEAST OF THE CENTER LINE OF ROBINSON POINT ROAD, 15.62 METERS SOUTHWEST OF THE OF THE CENTER OF U.S. HIGHWAY 62/412 AND 0.50 METERS NORTHEAST OF WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "030005 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 443.022 METERS.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	190	10.00	32.8
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 FAA 7M9 A</p> <p>Ref Mon # 2 CRAWFORD</p> <p>Ref Mon # 3 HOMEPORT</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030005A	Date Monumented 5/30/2001	Monumented By AHTD	County BAXTER	Route 62	Job Number: R90094
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	226,381.5240	
Easting (M)	375,672.5301	
Elevation (M)*		
Northing (SFT)	742,720.0500	
Easting (SFT)	1,232,518.9592	
Elevation (SFT)*		

Convergence Angle	0	9	27.8904956
Scale Factor	1.000030715		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	CRAWFORD
Ref Mon # 3	HOMEPORT

Comments

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 36 22 24.5436420

Longitude 92 16 15.9260124

Ellipsoid Height (M): 214.169

Geoid Height (M): -28.304

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62, U.S. HIGHWAY 412 AND STATE HIGHWAY 101 NORTH LOCATED ABOUT 5 MILES FROM MOUNTAIN HOME GO EAST ON U.S. 62 FOR 21 METERS TO THE STATION ON THE RIGHT. THE STATION IS 10.61 MILES EAST OF THE CENTER LINE ON ROBINSON POINT ROAD, 12.85 MILES SOUTHWEST OF THE CENTER LINE ON U.S. HIGHWAY 62/412, 0.50 MILES NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "030005A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 443.022 METERS.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030006	Date Monumented 8/27/2003	Monumented By AHTD	County BAXTER	Route 201	Job Number: 009814
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	236,209.7632	
Easting (M)	367,502.4930	
Elevation (M)*		
Northing (SFT)	774,964.8648	
Easting (SFT)	1,205,714.4291	
Elevation (SFT)*		

Convergence Angle	0	12	39.4517191
Scale Factor	1.000053162		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Crawford	
Ref Mon # 2 Butler	
Ref Mon # 3 Conway CORS	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 27 42.5251080
Longitude	92 21 45.1260648
Ellipsoid Height (M):	167.559
Geoid Height (M):	-28.360

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 201 AND THE ARKANSAS MISSOURI STATE LINE, NORTH OF MOUNTAIN HOME, GO SOUTH ON HIGHWAY 201 2.8 MILES TO THE STATION MARK ON THE LEFT, 14.50 METERS SOUTH OF THE CENTERLINE AND NORTH 1.75 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "030006 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030006A	Date Monumented 8/27/2003	Monumented By AHTD	County BAXTER	Route 201	Job Number: 009814
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	236,348.8521	
Easting (M)	367,820.1850	
Elevation (M)*		
Northing (SFT)	775,421.1923	
Easting (SFT)	1,206,756.7236	
Elevation (SFT)*		

Convergence Angle	0	12	32.0393211
Scale Factor	1.000053500		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	Crawford
Ref Mon # 2	Butler
Ref Mon # 3	Conway CORS

Comments

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 36 27 47.0749068

Longitude 92 21 32.3877780

Ellipsoid Height (M): 175.040

Geoid Height (M): -28.362

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 201 AND THE ARKANSAS MISSOURI STATE LINE, NORTH OF MOUNTAIN HOME, GO SOUTH ON HIGHWAY 201 2.65 MILES TO THE STATION MARK ON THE LEFT, 7.50 METERS NORTHWEST OF THE CENTERLINE AND SOUTHEAST 0.90 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "030006A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030007	Date Monumented 4/15/2008	Monumented By AHTD	County Baxter	Route 177	Job Number: 090223
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	208,194.2490	
Easting (M)	385,587.9250	
Elevation (M)*	263.965	
Northing (SFT)	683,050.6319	
Easting (SFT)	1,265,049.7173	
Elevation (SFT)*	866.026	

Convergence Angle	0	5	35.7390743
Scale Factor	0.999995433		
Elevation Adjust. Factor	0.9999585770		
Combined Adjust. Factor	0.9999540102		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W marker	139	19.11	62.7
MK # 2	Wooden fence post	218	1.52	5.0
MK # 3	Wooden fence post	300	5.49	18.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	Digital Levels ran by crew S5102 in May 2008 from 3rd order USGS mark 5 EJD 1960 706.
Ref Mon # 2 ARMH	
Ref Mon # 3 ARHR, C 39, L 38	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030007A	Date Monumented 4/15/2008	Monumented By AHTD	County Izard	Route 177	Job Number: 090223
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	208,610.5930	
Easting (M)	385,288.1150	
Elevation (M)*	262.975	
Northing (SFT)	684,416.5872	
Easting (SFT)	1,264,066.0906	
Elevation (SFT)*	862.778	

Convergence Angle	0	5	42.7394555
Scale Factor	0.999996149		
Elevation Adjust. Factor	0.9999587323		
Combined Adjust. Factor	0.9999548815		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Water meter	120	3.51	11.5
MK # 2	12 inch metal pipe	100	10.52	34.5
MK # 3	Liquor store sign	280	24.99	82.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARMH Ref Mon # 3 ARHR, C 39, L 38	Digital Levels ran by crew S5102 in May 2008 from 3rd order USGS mark 5 EJD 1960 706.

Location Description
To reach the station from the Baxter and Izard county lines on Hwy-177 south of Jordan go north on 177 for 0.40 miles to the station on the left. 28.5.0 feet southwest of the center of the highway, 53.0 northwest of a paved driveway and 1.50 feet northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "030007A 2008" set on top of a 5/8 inch by 4.00 foot long rebar and is .02 feet below the surface. The station is located in the grass area between the two driveways of the liquor store

AZ Mark Station	030007
Geodetic Azimuth	144 08 49
Grid Azimuth	144 14 32

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030008	Date Monumented 4/15/2008	Monumented By AHTD	County Baxter	Route 177	Job Number: 090223,012231
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	211,451.8537	0.0030			
Easting (M)	379,608.2493	0.0030			
Elevation (M)*	209.794				
Northing (SFT)	693,738.2900				
Easting (SFT)	1,245,431.3979				
Elevation (SFT)*	688.299				

Convergence Angle	0	7	55.2140980
Scale Factor	1.000001135		
Elevation Adjust. Factor	0.9999670776		
Combined Adjust. Factor	0.9999682125		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	14	20.5159560
Longitude	92	13	36.6602268
Ellipsoid Height:	181.630		
Grid Northing (Meters)	211,451.8550		
Grid Easting (Meters)	379,608.2590		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone riser	270	32.31	106.0
MK # 2	Telephone pole	165	39.62	130.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARMH Ref Mon # 3 ARHR, C 39, L 38	Comments Digital Levels ran by crew S5102 in May 2008 from 3rd order USGS mark 5 EJD 1960 706.
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Vertical Determined By: 3rd Order - Digital Level

Elevation Datum: NAVD 88

Geoid Datum: GEOID12A

Latitude 36 14 20.5159128

Longitude 92 13 36.6606120

Ellipsoid Height (M): 181.502 0.0140

Geoid Height (M): -28.247

Location Description

To reach the station from the Baxter and Izard county lines on Hwy-177 south of Jordan go north on 177 for 4.80 miles to the station on the right. 35.0 feet northeast of the center of the highway 204.0 feet southeast of "Jennings Cove drive" and 1.50 feet west of a witness post The station mark is a 2 1/2 inch cap stamped "030008 2008" set on top of a 5/8 inch by 4.00 foot long rebar and is .02 feet below the surface.

AZ Mark Station	030008A
Geodetic Azimuth	318 27 55
Grid Azimuth	318 35 50

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030008A	Date Monumented 4/15/2008	Monumented By AHTD	County Baxter	Route 177	Job Number: 090223,012231
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	211,900.2196 0.0030
Easting (M)	379,212.9137 0.0030
Elevation (M)*	197.484

Northing (SFT)	695,209.3038	
Easting (SFT)	1,244,134.3677	
Elevation (SFT)*	647.911	

Convergence Angle	0	8	4.4515996
Scale Factor	1.000001942		
Elevation Adjust. Factor	0.9999690093		
Combined Adjust. Factor	0.9999709513		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	36	14	35.0326068
Longitude	92	13	52.5347472
Ellipsoid Height:	169.313		
Grid Northing (Meters)	211,900.2260		
Grid Easting (Meters)	379,212.9290		

Location Description

To reach the station from the Baxter and Izard county lines on Hwy-177 south of Jordan go north on 177 for 5.20 miles to the station on the left. 35.0 feet southwest of the center of the highway and 10.0 feet northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "030008A 2008" set on top of a 5/8 inch by 4.00 foot long rebar and is .02 feet below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Transmission line pole	164	34.75	114.0
MK # 2	15 inch cedar tree	284	27.13	89.0
MK # 3				

AZ Mark Station	030008
Geodetic Azimuth	138 27 46
Grid Azimuth	138 35 50

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	Digital Levels ran by crew S5102 in May 2008 from 3rd order USGS mark 5 EJD 1960 706.
Ref Mon # 2 ARMH	
Ref Mon # 3 ARHR, C 39, L 38	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030009	Date Monumented 5/13/2010	Monumented By AHTD	County BAXTER	Route 5	Job Number: 090281,012231
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	209,235.8500 0.0030
Easting (M)	374,439.5804 0.0030
Elevation (M)*	143.835

Northing (SFT)	686,467.9512	
Easting (SFT)	1,228,473.8567	
Elevation (SFT)*	471.898	

Convergence Angle	0 9	55.5162615
Scale Factor	0.999997190	
Elevation Adjust. Factor	0.9999774281	
Combined Adjust. Factor	0.9999746182	

SUPERCEDED CONTROL		
Horizontal Datum	NAD 83 (1997)	
Latitude	36 13	8.1869520
Longitude	92 17	3.4014084
Ellipsoid Height:	115.632	
Grid Northing (Meters)	209,235.8590	
Grid Easting (Meters)	374,439.5750	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	2	30.08	98.7
MK # 2	POWER POLE WITH GUY	116	20.57	67.5
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARBT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MOWS</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARBT	Ref Mon # 2	ARHR	Ref Mon # 3	MOWS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231. SUPERCEDED****3 WIRE DIGITAL LEVELS RAN BY CREW S5112 ON 5/2010 FROM NGS BENCH MARK C 39 THRU D 39. </td> </tr> </table>	Comments	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231. SUPERCEDED****3 WIRE DIGITAL LEVELS RAN BY CREW S5112 ON 5/2010 FROM NGS BENCH MARK C 39 THRU D 39.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARBT										
Ref Mon # 2	ARHR										
Ref Mon # 3	MOWS										
Comments											
ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231. SUPERCEDED****3 WIRE DIGITAL LEVELS RAN BY CREW S5112 ON 5/2010 FROM NGS BENCH MARK C 39 THRU D 39.											

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 341 AND STATE HIGHWAY 5, NORTH OF NORTHFORK, GO SOUTH ON HIGHWAY 5 350.7 FEET TO THE STATION MARK ON THE RIGHT, WEST 36.7 FEET OF THE CEENTERLINE OF THE HIGHWAY AND EAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2010 030009" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030009-1	Date Monumented 9/14/2010	Monumented By AHTD	County Baxter	Route 341	Job Number: FA0312
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	198,291.0869	
Easting (M)	373,182.7190	
Elevation (M)*	214.064	
Northing (SFT)	650,560.0076	
Easting (SFT)	1,224,350.3039	
Elevation (SFT)*	702.308	

Convergence Angle	0	10	24.0274625
Scale Factor	0.999979607		
Elevation Adjust. Factor	0.9999664075		
Combined Adjust. Factor	0.9999460152		

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Gate Post	75	7.32	24.0	
MK # 2	24"CMP	190	1.83	6.0	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 TRI COUNTY Ref Mon # 2 MONA Ref Mon # 3 ARHR, ARBT, C 39, 690006	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 7 12.9770796
Longitude	92 17 52.3980024
Ellipsoid Height (M):	186.003
Geoid Height (M):	-28.061

Location Description
<p>To reach from the junction of highway 14 and 341 east of Big Flat, go north 13.1 miles on highway 341 to the station on the right, 22 ft southeast of center of highway 341, 24ft south of center of driveway, and 19ft northwest of witness post. The station mark is a 2 1/2 inch cap stamped "030009, 2010" set in top of a 5/8 inch by 4 foot long rebar, and is 0.20 feet below the surface.</p>

AZ Mark Station	030009A
Geodetic Azimuth	24 57 16
Grid Azimuth	25 07 40

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030009A	Date Monumented 5/13/2010	Monumented By AHTD	County BAXTER	Route 341	Job Number: 090281,012231
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	209,871.5826 0.0030
Easting (M)	374,205.9926 0.0030
Elevation (M)*	129.413

Northing (SFT)	688,553.6839	
Easting (SFT)	1,227,707.4941	
Elevation (SFT)*	424.582	

Convergence Angle	0	10	1.0016023
Scale Factor	0.999998301		
Elevation Adjust. Factor	0.9999796913		
Combined Adjust. Factor	0.9999779923		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	36	13	28.7898924
Longitude	92	17	12.8277564
Ellipsoid Height:	180.496		
Grid Northing (Meters)	209,871.5840		
Grid Easting (Meters)	374,205.9940		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 201 AND STATE HIGHWAY 5, NORTH OF NORFORK, GO NORTH ON HIGHWAY 201 0.35 MILES TO THE STATION MARK ON THE RIGHT, 24.5 FEET NORTHWEST OF THE CENTERLINE OF AN ASPHALT DRIVE , NORTH 28 FEET OF THE CEENTERLINE OF THE HIGHWAY AND SOUTH 39 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED ""2010 030009A"" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PRIVATE ANTENNA TOWER	206	55.66	182.6
MK # 2	NORTHWEST END OF GATE	55	14.69	48.2
MK # 3	NORTHWEST END OF 36 INCH CMP	354	4.57	15.0

AZ Mark Station	030009
Geodetic Azimuth	159 39 30
Grid Azimuth	159 49 32

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARHR Ref Mon # 3 MOWS	Comments ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231. SUPERCEDED*****3WIRE DIGITAL LEVELS RAN BY CREW S5112 ON 5/2010 FROM NGS BENCH MARK C 39 THRU D 39.*****
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030009A-1	Date Monumented 9/14/2010	Monumented By AHTD	County Baxter	Route 341	Job Number: FA0312
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	198,632.5360	
Easting (M)	373,342.8680	
Elevation (M)*	208.562	
Northing (SFT)	651,680.2452	
Easting (SFT)	1,224,875.7261	
Elevation (SFT)*	684.257	

Convergence Angle	0	10	20.3247755
Scale Factor	0.999980111		
Elevation Adjust. Factor	0.9999672709		
Combined Adjust. Factor	0.9999473825		

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	South end of guard rail	185	12.80	42.0	
MK # 2	Center of 4x4 ft twin box culvert	355	25.91	85.0	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 TRI COUNTY Ref Mon # 2 MONA Ref Mon # 3 ARHR, ARBT, C 39, 690006	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Location Description	
To reach from the junction of highway 14 and 341 east of Big Flat, go north 13.3 miles on highway 341 to the station on the left, 22ft east of the center line of highway 341, 1.5ft west from the witness post. The station mark is a 2 1/2 inch cap stamped "030009A, 2010" set in top of a 5/8 inch by 4ft rebar and is 0.20 ft below the surface.	

AZ Mark Station	030009
Geodetic Azimuth	204 57 20
Grid Azimuth	205 07 40

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030010	Date Monumented 9/14/2010	Monumented By AHTD	County Baxter	Route CR 73	Job Number: FA0312
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	199,978.1059	
Easting (M)	374,265.4380	
Elevation (M)*	244.493	
Northing (SFT)	656,094.8358	
Easting (SFT)	1,227,902.5245	
Elevation (SFT)*	802.141	

Convergence Angle	0	9	58.9471581
Scale Factor	0.999982127		
Elevation Adjust. Factor	0.9999616325		
Combined Adjust. Factor	0.9999437602		

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

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	20' Pine Tree	234	14.02	46.0	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TRI COUNTY Ref Mon # 2 MONA Ref Mon # 3 ARHR, ARBT, C 39, 690006	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030011A	Date Monumented 9/14/2010	Monumented By AHTD	County Baxter	Route CR 73	Job Number: FA0312
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	200,447.2150	
Easting (M)	377,286.3520	
Elevation (M)*	124.391	
Northing (SFT)	657,633.9045	
Easting (SFT)	1,237,813.6399	
Elevation (SFT)*	408.106	

Convergence Angle	0	8	48.6666048
Scale Factor	0.999982852		
Elevation Adjust. Factor	0.9999804794		
Combined Adjust. Factor	0.9999633317		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Northwest of corner of bridge	170	36.27	119.0
MK # 2	Combination Pole	317	25.30	83.0
MK # 3	18' triple sweetgum tree	350	20.12	66.0

Area Reference Monuments (used for Processing) Ref Mon # 1 TRI COUNTY Ref Mon # 2 MONA Ref Mon # 3 ARHR, ARBT, C 39, 690006	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 8 23.3029356
Longitude	92 15 8.5193280
Ellipsoid Height (M):	96.310
Geoid Height (M):	-28.081

Location Description
<p>To reach from the junction of highway 341 and county road 73, about 4.5 miles air line distance from town of Lone Rock, go northeast for 3.2 miles on county road 73 to the station on the station on the left, 20.ft east of center line of county road 73, 1.5ft west of witness post. The station mark is a 2 1/2 inch cap stamped "030011A, 2010" set in top of a 5/8 inch by 4ft rebar and is 0.20 ft below the surface.</p>

AZ Mark Station	030011
Geodetic Azimuth	57 42 23
Grid Azimuth	57 51 12

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030012	Date Monumented 9/14/2010	Monumented By AHTD	County Baxter	Route CR 73	Job Number: FA0312
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	198,901.0500	
Easting (M)	378,034.1930	
Elevation (M)*	232.968	
Northing (SFT)	652,561.1949	
Easting (SFT)	1,240,267.1815	
Elevation (SFT)*	764.329	

Convergence Angle	0	8	31.1712794
Scale Factor	0.999980528		
Elevation Adjust. Factor	0.9999634411		
Combined Adjust. Factor	0.9999439698		

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

Location Description			
<p>To reach from the junction of highway 341 and county road 73, about 4.5 miles air line distance from town of Lone Rock, go northeast for 4.4 miles on county road 73 to the station on the station on the right, 27.ft southwest of center line of county road 73, 1.5ft northeast of witness post. The station mark is a 2 1/2 inch cap stamped "030012, 2010" set in top of a 5/8 inch by 4ft rebar and is 0.20 ft below the surface.</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TRI COUNTY	
Ref Mon # 2 MONA	
Ref Mon # 3 ARHR, ARBT, C 39, 690006	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030013	Date Monumented 9/14/2010	Monumented By AHTD	County Baxter	Route CR 73	Job Number: FA0312
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	198,244.6649	
Easting (M)	379,367.2200	
Elevation (M)*	209.947	
Northing (SFT)	650,407.7048	
Easting (SFT)	1,244,640.6210	
Elevation (SFT)*	688.801	

Convergence Angle	0	8	0.1146672
Scale Factor	0.999979563		
Elevation Adjust. Factor	0.9999670536		
Combined Adjust. Factor	0.9999466172		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	North fence corner of gate	75	2.53	8.3
MK # 2	End of 18" CMP	251	4.88	16.0
MK # 3	Combination Pole	180	3.90	12.8

Area Reference Monuments (used for Processing) Ref Mon # 1 TRI COUNTY Ref Mon # 2 MONA Ref Mon # 3 ARHR, ARBT, C 39, 690006	<div style="border: 1px solid black; padding: 5px; min-height: 100px;"> Comments </div>
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Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 36 7 12.0079992

Longitude 92 13 45.0822936

Ellipsoid Height (M): 181.912

Geoid Height (M): -28.035

Location Description

To reach from the junction of highway 341 and county road 73, about 4.5 miles air line distance from town of Lone Rock, go northeast for 5.5 miles on county road 73 to the station on the left in driveway to pasture, 10 feet south of the center of the driveway, 32 feet east of the center of county road 73, 1.5 feet north of the witness post. The station mark is a 2 1/2 inch cap stamped "030013, 2010" set in top of a 5/8 inch by 4ft rebar and is 0.20 ft below the surface.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030014	Date Monumented 9/16/2010	Monumented By AHTD	County Baxter	Route CR 73	Job Number: FA0312
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	196,945.9159	
Easting (M)	380,747.3340	
Elevation (M)*	160.516	
Northing (SFT)	646,146.7257	
Easting (SFT)	1,249,168.5450	
Elevation (SFT)*	526.626	

Convergence Angle	0	7	27.9345668
Scale Factor	0.999977680		
Elevation Adjust. Factor	0.9999748104		
Combined Adjust. Factor	0.9999524910		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Southeast corner of 1 story frame house	326	18.44	60.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 Tri County Ref Mon # 2 Mona Ref Mon # 3 ARHR, ARBT, C 39, 690006	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 6 29.9715876
Longitude	92 12 49.7804400
Ellipsoid Height (M):	132.509
Geoid Height (M):	-28.007

Location Description
To reach from the junction of highway 341 and county road 73, about 4.5 miles air line distance from town of Lone Rock, go northeast for 6.9 miles on county road 73 to the station on the left, 128 feet east of the centerline of CR 73 and 13 feet south of the center of the driveway. The station mark is a 2 1/2 inch cap stamped "030014, 2010" set in top of a rock outcropping in the yard by the garden area.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030015	Date Monumented 9/16/2010	Monumented By AHTD	County Baxter	Route CR 73	Job Number: FA0312
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	196,249.9430	
Easting (M)	381,700.5590	
Elevation (M)*	161.605	
Northing (SFT)	643,863.3547	
Easting (SFT)	1,252,295.9173	
Elevation (SFT)*	530.199	

Convergence Angle	0	7	5.7233761
Scale Factor	0.999976689		
Elevation Adjust. Factor	0.9999746395		
Combined Adjust. Factor	0.9999513291		

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

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	15 inch pine tree	287	21.95	72.0	
MK # 2	24 inch pine tree	80	16.45	54.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TRI COUNTY	
Ref Mon # 2 MONA	
Ref Mon # 3 ARHR, ARBT, C 39, 690006	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030016	Date Monumented 9/7/2011	Monumented By AHTD	County Baxter	Route 62	Job Number: 090319,012231
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	219,973.0474	0.0040	
Easting (M)	364,967.3153	0.0040	
Elevation (M)*	214.086		

Northing (SFT)	721,694.9063		
Easting (SFT)	1,197,396.9336		
Elevation (SFT)*	702.379		

Convergence Angle	0	13	37.1937500
Scale Factor	1.000017260		
Elevation Adjust. Factor	0.9999664041		
Combined Adjust. Factor	0.9999836636		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	36	18	55.4763888
Longitude	92	23	24.3571020
Ellipsoid Height:	185.674		
Grid Northing (Meters)	219,973.0473		
Grid Easting (Meters)	364,967.2972		

Location Description

Starting at the intersection of 201 and 62 bypass in mountain home go west approx. .08 miles to the end of dodd creek bridge and the station on the left. 8.47 meters south of the center of the west bound lane of 62 and 2.37 meters south of witness post. The station is a standard 2.5 in. cap stamped 030016 2011 on top of a 1.22 meter 5/8's rebar and driven flush with the ground.

Latitude 36.18.56
Longitude 092.23.25

Location Reference Marks

	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	West of fence	129.00.00	3.28	10.8	
MK # 2	North of center of concrete ditch pavement	215.00.00	4.82	15.8	
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030016A	Date Monumented 9/7/2011	Monumented By AHTD	County Baxter	Route 62	Job Number: 090319,012231
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	220,343.3217 0.0040
Easting (M)	364,628.4357 0.0040
Elevation (M)*	228.405
Northing (SFT)	722,909.7146
Easting (SFT)	1,196,285.1261
Elevation (SFT)*	749.358

Convergence Angle	0 13 45.1331293
Scale Factor	1.000018002
Elevation Adjust. Factor	0.9999641571
Combined Adjust. Factor	0.9999821585

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	19	7.4450244
Longitude	92	23	38.0010084
Ellipsoid Height:	199.992		
Grid Northing (Meters)	220,343.3221		
Grid Easting (Meters)	364,628.4177		

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	North of Highway 62	220.00.00	18.59	61.0	
MK # 2	South of brace post	32.00.00	1.52	5.0	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12A
Latitude	36 19 7.4450136
Longitude	92 23 38.0002848
Ellipsoid Height (M):	199.912 0.0140
Geoid Height (M):	-28.368

Location Description
<p>Starting at the Intersection of 201 and 62 bypass go west approx. .375 miles to the station on the left. The station is 18.59 meters north of the center of the west bound lane of 62, set 1.46 meters south of the witness post. The station is a standard 2.5 in cap stamped 030016A 2011 on top of a 1 meter long 5/8's rebar and driven flush with the ground.</p> <p>Latitude 36.19.07 Longitude 092.23.38</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030017	Date Monumented 3/9/2015	Monumented By CLSI	County BAXTER	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	203,618.2837 0.0030
Easting (M)	379,922.7227 0.0030
Elevation (M)*	187.104 0.0026
Northing (SFT)	668,037.6524
Easting (SFT)	1,246,463.1327
Elevation (SFT)*	613.857

Convergence Angle	0 7 47.4718261
Scale Factor	0.999987820
Elevation Adjust. Factor	0.9999706382
Combined Adjust. Factor	0.9999584585

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

Location Description	
<p>FROM THE INTERSECTION OF THE BAXTER AND IZARD COUNTY LINE WITH HWY. 5 GO NORTH ALONG HWY. 5 0.96 MILES TO THE INTERSECTION OF HWY. 5 AND ALYSA LANE. TURN RIGHT (NORTHEASTERLY) ON ALYSA LANE AND GO 110 FEET TO THE STATION MARK ON THE LEFT, BEING 11.4 FEET NORTHWEST OF THE CENTERLINE OF A DIRT ROAD (ALYSA LANE) AND 1.0 FEET WEST OF A WITNESS POST AND SIGN. THE STATION MARK IS STANDARD 2-1/2" ALUMINUM CAP STAMPED "030017", SET ON TOP OF A 5/8" REBAR.</p>	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CENTERLINE HIGHWAY 5	255	32.52	106.7	
MK # 2	36" OAK TREE	100	14.78	48.5	
MK # 3	LIGHT POLE	80	3.05	10.0	

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments
<p>ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030017A	Date Monumented 3/9/2015	Monumented By CLSI	County BAXTER	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	203,944.0338 0.0030
Easting (M)	379,616.8956 0.0020
Elevation (M)*	203.546

Northing (SFT)	669,106.3842
Easting (SFT)	1,245,459.7650
Elevation (SFT)*	667.800

Convergence Angle	0	7	54.6100162
Scale Factor	0.999988342		
Elevation Adjust. Factor	0.9999680581		
Combined Adjust. Factor	0.9999564004		

SUPERCEDED CONTROL

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

Location Description

FROM THE INTERSECTION OF THE BAXTER AND IZARD COUNTY LINE WITH HWY. 5 GO NORTH ALONG HWY. 5 1.23 MILES TO THE STATION MARK ON THE RIGHT, BEING 55.4 FEET NORTHWEST OF THE CENTERLINE OF HWY. 5 AND 1.0 FEET SOUTHWEST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030017A" SET ON TOP OF A 5/8" REBAR.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTERLINE HIGHWAY 5	230	16.89	55.4
MK # 2	POWER POLE	185	8.63	28.3
MK # 3	POWER POLE	315	2.65	8.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARM3	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
Ref Mon # 2 ARHR	
Ref Mon # 3 ARPG	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030018	Date Monumented 3/10/2015	Monumented By CLSI	County BAXTER	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	205,950.5483	0.0020	
Easting (M)	378,491.6286	0.0020	
Elevation (M)*	249.379	0.0022	
Northing (SFT)	675,689.4239		
Easting (SFT)	1,241,767.9515		
Elevation (SFT)*	818.171		

Convergence Angle	0	8	20.9246383
Scale Factor	0.999991620		
Elevation Adjust. Factor	0.9999608659		
Combined Adjust. Factor	0.9999524862		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	22" OAK TREE	345	16.25	53.3
MK # 2	CL BAXTER CO RD 67	355	9.05	29.7
MK # 3	BARBED WIRE FENCE	170	1.74	5.7

Area Reference Monuments (used for Processing) Ref Mon # 1 ARM3 Ref Mon # 2 ARHR Ref Mon # 3 ARPG	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.</td> </tr> </table>	Comments	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
Comments			
ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.			

Location Description
FROM THE NORFORK, AR. POST OFFICE, AT THE INTERSECTION OF HWY. 5 AND CHASTAIN ST., GO SOUTH ALONG HWY 5 3.61 MILES TO THE INTERSECTION OF HWY. 5 AND BAXTER COUNTY ROAD 67 (HAVNER RD.) TURN LEFT (EASTERLY) ON BAXTER COUNTY ROAD 67 AND GO 420 FEET TO THE STATION MARK ON THE RIGHT, BEING 29.7 FEET SOUTH OF THE CENTERLINE OF BAXTER COUNTY ROAD 67 AND 1.5 FEET NORTH OF A WITNESS POST AND SIGN, THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030018" SET ON TOP OF A 5/8" REBAR.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030018A	Date Monumented 3/10/2015	Monumented By CLSI	County BAXTER	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	206,144.3799 0.0020
Easting (M)	378,224.7950 0.0020
Elevation (M)*	237.910

Northing (SFT)	676,325.3531
Easting (SFT)	1,240,892.5149
Elevation (SFT)*	780.542

Convergence Angle	0 8 27.1502023
Scale Factor	0.999991941
Elevation Adjust. Factor	0.9999626656
Combined Adjust. Factor	0.9999546069

SUPERCEDED CONTROL

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

Location Description			
FROM THE NORFORK, AR POST OFFICE AT THE INTERSECTION OF HWY. 5 AND CHASTAIN ST. GO SOUTH ALONG HWY 5: 3.47 MILES TO THE STATION MARK ON THE RIGHT, BEIGN 35.5 FEET SOUTHWEST OF THE CENTERLINE OF HWY. 5 AND 1.0 FEET EAST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030018A" SET ON TOP OF A 5/8" REBAR.			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NE COR. OLD HISTORIC GALATIA CHURCH	320		19.35	63.5
MK # 2	SE COR. OLD HISTORIC GALATIA CHURCH	285		18.59	61.0
MK # 3	CENTERLINE HWY 5	55		10.82	35.5

Area Reference Monuments (used for Processing) Ref Mon # 1 ARM3 Ref Mon # 2 ARHR Ref Mon # 3 ARPG	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;"> ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231. </td> </tr> </table>	Comments	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
Comments			
ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.			

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030019	Date Monumented 3/16/2015	Monumented By CLSI	County BAXTER	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	206,711.1431 0.0030
Easting (M)	375,985.4537 0.0030
Elevation (M)*	229.030

Northing (SFT)	678,184.8087	
Easting (SFT)	1,233,545.6093	
Elevation (SFT)*	751.409	

Convergence Angle	0 9	19.3405971
Scale Factor	0.999992879	
Elevation Adjust. Factor	0.9999640590	
Combined Adjust. Factor	0.9999569383	

SUPERCEDED CONTROL

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

Location Description			
FROM THE NORFORK, AR POST OFFICE, AT THE INTERSECTION OF HWY. 5 AND CHASTAIN ST. GO SOUTH ALONG HWY. 5; 2.0 MILES TO THE INTERSECTION OF HWY 5 AND HWY. 177 SOUTH. TURN RIGHT (SOUTHWESTERLY) ON HWY. 177 SOUTH AND GO 0.30 MILES TO THE INTESECTION OF HWY. 177 SOUTH AND SAWMILL LANE. TURN RIGHT (WEST) ON SAWMILL LANE AND GO 100 FEET TO THE STATION MARK ON THE LEFT, BEING 45.3 FEET SOUTH OF THE CENTERLINE OF SAWMILL LANE AND 1.0 FEET NORTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030019" SET ON TOP OF A 5/8" REBAR.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL SAWMILL LN.	5	13.81	45.3
MK # 2	WATER VALVE	95	9.23	30.3
MK # 3	POWER POLE	275	6.31	20.7

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments
ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030019A	Date Monumented 3/16/2015	Monumented By CLSI	County BAXTER	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	206,443.2678 0.0030
Easting (M)	375,987.6079 0.0020
Elevation (M)*	232.471
Northing (SFT)	677,305.9544
Easting (SFT)	1,233,552.6769
Elevation (SFT)*	762.697

Convergence Angle	0 9 19.2735036
Scale Factor	0.999992430
Elevation Adjust. Factor	0.9999635191
Combined Adjust. Factor	0.9999559494

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

Location Description	
<p>FROM THE NORFORK, AR. POST OFFICE, AT THE INTERSECTION OF HWY. 5 AND CHASTAIN ST., GO SOUTH ALONG HWY 5; 2.00 MILES TO THE INTESECTION OF HWY. 5 AND HWY. 177 SOUTH. TURN RIGHT (SOUTHWESTENLY) ON HWY. 177 SOUTH AND GO 0.48 MILES TO THE STATION MARK ON THE LEFT, BEING 44.0 FEET SOUTH OF THE CENTERLINE OF CURBSTONE LANE, 30.6 FEET EAST OF HWY 177 SOUTH AND 1.0 FEET WEST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030019A", SET ON TOP OF A 5/8" REBAR.</p>	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	295	25.05	82.2
MK # 2	CL CURBSTONE LANE	355	13.41	44.0
MK # 3	CL HWY. 177	270	9.33	30.6

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments
<p>ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030020	Date Monumented 3/16/2015	Monumented By CLSI	County BAXTER	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	210,731.6723 0.0030
Easting (M)	375,601.5770 0.0020
Elevation (M)*	199.983
Northing (SFT)	691,375.4949
Easting (SFT)	1,232,286.1739
Elevation (SFT)*	656.110

Convergence Angle	0 9 28.5398259
Scale Factor	0.999999829
Elevation Adjust. Factor	0.9999686172
Combined Adjust. Factor	0.9999684462

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

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12A
Latitude	36 13 56.8221672
Longitude	92 16 17.0418936
Ellipsoid Height (M):	171.595 0.0140
Geoid Height (M):	-28.279

Location Description
<p>FROM THE SOUTHWESTERLY "Y" INTERSECTION OF HWY. 5 AND HWY. 177 NORTH, GO SOUTHWESTERNLY ALONG HWY. 5; 0.93 MILES TO THE STATION MARK ON THE LEFT, BEING 39.0 FEET SOUTHWESTERLY OF THE CENTELINE OF HWY. 5, 22.5 FEET SOUTHWESTERLY OF THE CENTERLINE OF BONNER DR. AND 1.0 FEET NORTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030020", SET ON TOP OF A 5/8" REBAR.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL HWY. 5	295	11.89	39.0
MK # 2	CL BONNER DR.	20	6.86	22.5
MK # 3	WOOD FENCE CORNER	195	1.52	5.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARM3 Ref Mon # 2 ARHR Ref Mon # 3 ARPG	Comments ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030020A	Date Monumented 3/17/2015	Monumented By CLSI	County BAXTER	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	210,973.1610 0.0040
Easting (M)	375,696.9135 0.0030
Elevation (M)*	208.047
Northing (SFT)	692,167.7790
Easting (SFT)	1,232,598.9570
Elevation (SFT)*	682.568

Convergence Angle	0 9 26.3337260
Scale Factor	1.000000260
Elevation Adjust. Factor	0.9999673517
Combined Adjust. Factor	0.9999676117

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

Location Description	
<p>FROM THE SOUTHWESTERLY "Y" INTERSECTION OF HWY. 5 AND HWY. 177 NORTH, GO SOUTHWESTERNLY ALONG HWY. 5; 0.77 MILES TO THE STATION MARK ON THE RIGHT, BEING 39.5 FEET NORTHWESTERLY OF THE CENTELINE OF HWY. 5, 12.1 FEET NORTHERLY OF THE CENTERLINE OF WINTERBERRY DR. AND 1.0 FEET EAST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030020A", SET ON TOP OF A 5/8" REBAR.</p>	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL HWY. 5	110	12.04	39.5
MK # 2	18" DOUBLE PINE TREE	280	8.23	27.0
MK # 3	CL WINTERBERRY DR.	170	3.69	12.1

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARM3</p> <p>Ref Mon # 2 ARHR</p> <p>Ref Mon # 3 ARPG</p>	<p style="text-align: center;">Comments</p> <p>ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030021	Date Monumented 3/2/2015	Monumented By CLSI	County BAXTER	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	212,341.2312	0.0030			
Easting (M)	375,294.4735	0.0030			
Elevation (M)*	236.668				

Northing (SFT)	696,656.1894				
Easting (SFT)	1,231,278.6185				
Elevation (SFT)*	776.469				

Convergence Angle	0	9	35.8007148		
Scale Factor	1.000002724				
Elevation Adjust. Factor	0.9999628604				
Combined Adjust. Factor	0.9999655843				

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

Location Description					
<p>FROM THE NORTHWESTERLY "Y" INTERSECTION OF HWY. 5 AND HWY. 177 NORTH, GO NORTH ALONG HWY. 5; 0.53 MILES TO THE INTERSECTION OF HWY. 5 AND SCHWARTZ RD. TURN LEFT (SOUTH) ON SCHWARTZ RD. AND GO 455 FEET TO THE INTERSECTION OF SCHWARTZ RD. AND WILSON DR., TO THE STATION MARK TO THE SOUTHWEST, BEING 23.0 FEET WEST OF THE CENTERLINE OF SCHWARTZ RD., 24.0 FEET SOUTHERLY OF THE CENTERLINE OF WILSON DR. AND 1.0 FEET NORTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030021" SET ON TOP OF A 5/8" REBAR.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	16" ELM TREE		280	16.09	52.8
MK # 2	CL SCHWARTZ RD.		95	7.01	23.0
MK # 3	CL WILSON DR.		10	7.31	24.0

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARM3	<p>ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.</p>
Ref Mon # 2	ARHR	
Ref Mon # 3	ARPG	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030021A	Date Monumented 3/2/2015	Monumented By CLSI	County BAXTER	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	212,450.4542 0.0030
Easting (M)	375,038.5602 0.0030
Elevation (M)*	244.261
Northing (SFT)	697,014.5318
Easting (SFT)	1,230,439.0096
Elevation (SFT)*	801.379

Convergence Angle	0 9 41.7723217
Scale Factor	1.000002921
Elevation Adjust. Factor	0.9999616690
Combined Adjust. Factor	0.9999645899

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

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12A
Latitude	36 14 52.5335748
Longitude	92 16 39.7820820
Ellipsoid Height (M):	215.853 0.0140
Geoid Height (M):	-28.288

Location Description
<p>FROM THE NORTHWESTERLY "Y" INTERSECTION OF HWY. 5 AND HWY. 177 NORTH, GO NORTH ALONG HWY. 5; 0.53 MILES TO THE INTERSECTION OF HWY. 5 AND SCHWARTZ RD. TURN LEFT (SOUTH) ON SCHWARTZ RD. AND GO 455 FEET TO THE INTESECTION OF SCHWARTZ RD. AND WILSON DR. TURN RIGHT (NORTHWESTERLY) ON WILSON DR. AND GO 920 FEET TO THE STATION MARK ON THE RIGHT, BEING 12.0 FEET NORTHERLY OF THE CENTERLINE OF WILSON DR. AND 1.0 FEET SOUTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030021A", SET ON TOP OF A 5/8" REBAR.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	END OF A CHAINLINK FENCE	180	12.04	39.5
MK # 2	CL WILSON DR.	195	3.66	12.0
MK # 3	POWER POLE	13	3.66	12.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARM3 Ref Mon # 2 ARHR Ref Mon # 3 ARPG	Comments ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030022	Date Monumented 3/2/2015	Monumented By CLSI	County BAXTER	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	214,784.2570 0.0020
Easting (M)	373,794.6428 0.0020
Elevation (M)*	267.498
Northing (SFT)	704,671.3498
Easting (SFT)	1,226,357.9239
Elevation (SFT)*	877.617

Convergence Angle	0 10 10.9250456
Scale Factor	1.000007234
Elevation Adjust. Factor	0.9999580226
Combined Adjust. Factor	0.9999652563

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

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12A
Latitude	36 16 8.1317928
Longitude	92 17 29.8813560
Ellipsoid Height (M):	239.058 0.0130
Geoid Height (M):	-28.304

Location Description
<p>FROM THE NORTHWESTERLY "Y" INTERSECTION OF HWY. 5 AND HWY. 177 NORTH, GO NORTH ALONG HWY. 5; 2.60 MILES TO THE INTERSECTION OF HWY. 5 AND SCENIC DR.. TURN RIGHT (EASTERLY) ON SCENIC DR.. AND GO 150 FEET TO THE STATION MARK ON THE RIGHT, BEING 23.4 FEET SOUTH OF THE CENTERLINE OF SCENIC DR. AND 1.0 FEET NORTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030022", SET ON TOP OF A 5/8" REBAR.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	272	28.28	92.8
MK # 2	CL SCENIC DR.	355	7.13	23.4
MK # 3	SPEED LIMIT SIGN	85	4.18	13.7

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARM3</p> <p>Ref Mon # 2 ARHR</p> <p>Ref Mon # 3 ARPG</p>	<p style="text-align: center;">Comments</p> <p>ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.</p>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030022A	Date Monumented 3/2/2015	Monumented By CLSI	County BAXTER	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	214,883.2682	0.0040	
Easting (M)	374,044.4925	0.0030	
Elevation (M)*	267.695		

Northing (SFT)	704,996.1891		
Easting (SFT)	1,227,177.6391		
Elevation (SFT)*	878.263		

Convergence Angle	0	10	5.1071097
Scale Factor	1.000007421		
Elevation Adjust. Factor	0.9999579917		
Combined Adjust. Factor	0.9999654124		

SUPERCEDED CONTROL

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

Location Description

FROM THE NORTHWESTERLY "Y" INTERSECTION OF HWY. 5 AND HWY. 177 NORTH, GO NORTH ALONG HWY. 5; 2.60 MILES TO THE INTESECTION OF HWY. 5 AND SCENIC DR. TURN RIGHT (EASTERLY) ON SCENIC DR. AND GO 1000 FEET TO THE STATION MARK ON THE LEFT, BEING 29.8 FEET NORTH OF THE CENTERLINE OF SCENIC DR., 29.0 FEET EAST OF THE CENTERLINE OF DUNCAN GRAY DR. AND 1.0 FEET SOUTH OF A WITHNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030022A", SET ON TOP OF A 5/8" REBAR.

Location Reference Marks

Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	CL SCENIC DR.	180	9.08	29.8	030022
MK # 2	CL DUNCAN GRAY DR.	270	8.84	29.0	
MK # 3	STREET SIGN	295	1.86	6.1	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARM3	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
Ref Mon # 2 ARHR	
Ref Mon # 3 ARPG	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030023	Date Monumented 2/25/2015	Monumented By CLSI	County BAXTER	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	217,679.7997	0.0030			
Easting (M)	369,944.0373	0.0030			
Elevation (M)*	267.366				
Northing (SFT)	714,171.1428				
Easting (SFT)	1,213,724.7290				
Elevation (SFT)*	877.183				

Convergence Angle	0	11	40.9228884
Scale Factor	1.000012756		
Elevation Adjust. Factor	0.9999580433		
Combined Adjust. Factor	0.9999707988		

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

Location Description					
<p>FROM THE INTERSECTION OF HWY. 5 AND U.S. 62/412 (SHEILD-HOPPER) BYPASS, GO SOUTH ALONG HWY. 5; 2.78 MILES TO THE INTERSECTION OF HWY. 5 AND LAGERGORG LN. (ENTRANCE TO THE DR. RAY STAHL SOCCOR COMPLEX). TURN RIGHT (SOUTHWESTERLY) ON LAGERBORG LN. AND GO 1000 FEET TO A CUL DE SAC AND THE INTERSECTION OF LAGERBORG LN. AND KENTON TREAT DR. TURN RIGHT (NORTHWESTERLY) ON KENTON TREAT DR. AND GO 480 FEET TO THE STATION MARK ON THE RIGHT, BEING 48.3 FEET NORTHWESTERLY OF THE CENTERLINE OF KENTON TREAT DR. AND 1.0 FEET EAST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030023", SET ON TOP OF A 5/8" REBAR.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	10" BOX ELDER TREE	320		15.36	50.4
MK # 2	CL KENTON TREAT DR.	260		14.72	48.3
MK # 3	2-1/2" STEEL POST	300		0.79	2.6

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARM3	<p>ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.</p>
Ref Mon # 2	ARHR	
Ref Mon # 3	ARPG	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030023A	Date Monumented 2/25/2015	Monumented By CLSI	County BAXTER	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	218,049.6248 0.0020
Easting (M)	369,870.1637 0.0020
Elevation (M)*	269.468

Northing (SFT)	715,384.4774	
Easting (SFT)	1,213,482.3621	
Elevation (SFT)*	884.081	

Convergence Angle	0	11	42.6750309
Scale Factor	1.000013479		
Elevation Adjust. Factor	0.9999577134		
Combined Adjust. Factor	0.9999711918		

SUPERCEDED CONTROL

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

Location Description

FROM THE INTERSECTION OF HWY. 5 AND U.S. 62/412 (SHEILD-HOPPER) BYPASS, GO SOUTH ALONG HWY. 5; 2.47 MILES TO THE INTERSECTION OF HWY. 5 AND COUNTY RD. 573 (BROUGH RD.) TURN RIGHT (WESTERLY) ON COUNTY RD. 573 AND GO 606 FEET TO THE INTERSECTION OF COUNTY RD. 573 AND KENTON TREAT DR. TURN LEFT (SOUTH) ON KENTON TREAT DR. AND GO 63 FEET TO THE STATION MARK ON THE LEFT, BEING 37.1 FEET EAST OF THE CENTERLINE OF KENTON TREAT DR. AND 1.0 FEET SOUTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030023A", SET ON TOP OF A 5/8" REBAR.

Location Reference Marks

Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 CL CO. RD. 573	0	17.71	58.1	AZ Mark Station 030023
MK # 2 CL KENTON TREAT DR.	270	11.31	37.1	Geodetic Azimuth
MK # 3 POWER POLE	358	10.67	35.0	Grid Azimuth

<p style="text-align: center; margin-bottom: 10px;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARM3</p> <p>Ref Mon # 2 ARHR</p> <p>Ref Mon # 3 ARPG</p>	<p style="text-align: center; margin-bottom: 10px;">Comments</p> <p>ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030024	Date Monumented 2/26/2015	Monumented By CLSI	County BAXTER	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	221,293.0497	0.0030	
Easting (M)	368,188.3632	0.0020	
Elevation (M)*	270.781		
Northing (SFT)	726,025.6139		
Easting (SFT)	1,207,964.6549		
Elevation (SFT)*	888.388		

Convergence Angle	0	12	22.1690950
Scale Factor	1.000019956		
Elevation Adjust. Factor	0.9999575074		
Combined Adjust. Factor	0.9999774626		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SE END OF HWY. 5 BR PARAPET WALL	245	19.93	65.4
MK # 2	SE CORNER OF CONC DITCH PAVING	217	13.11	43.0
MK # 3	EDGE OF BLUFF	320	7.92	26.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARM3 Ref Mon # 2 ARHR Ref Mon # 3 ARPG	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030024A	Date Monumented 2/26/2015	Monumented By CLSI	County BAXTER	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	221,448.0603 0.0030
Easting (M)	368,458.9219 0.0030
Elevation (M)*	261.085

Northing (SFT)	726,534.1778
Easting (SFT)	1,208,852.3129
Elevation (SFT)*	856.576

Convergence Angle	0	12	15.8698850
Scale Factor	1.000020275		
Elevation Adjust. Factor	0.9999590289		
Combined Adjust. Factor	0.9999793031		

SUPERCEDED CONTROL

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EP OF U.S. HWY. 62/412 BYPASS ON-RAMP	315	11.58	38.0
MK # 2	EP GOLDEN STAR LANE	135	4.24	13.9
MK # 3	WEB WIRE FENCE	135	1.83	6.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARM3 Ref Mon # 2 ARHR Ref Mon # 3 ARPG	<div style="border: 1px solid black; padding: 5px;"> Comments ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231. </div>
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Location Description

 THE STATION MARK IS LOCATED NEAR THE EASTERN END OF THE ON RAMP FROM HWY.5 TO THE U.S. 62/412 (SHEID-HOPPER) BYPASS. FROM THE INTERSECTION OF THE ON RAMP AND HWY. 5, GO 1200 FEET ALONG THE ON RAMP TO THE STATION MARK ON THE RIGHT, BEING 38.0 FEET SOUTHEASTERLY OF THE EDGE OF PAVEMENT OF THE ON RAMP AND 1.0 FEET NORTHWEST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030024A", SET ON TOP OF A 5/8" REBAR.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040001	Date Monumented 12/1/1998	Monumented By AHTD	County BENTON	Route 412	Job Number: 090024,1634
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 207,834.3390		Latitude 36 10 50.6519616
Easting (M) 174,357.1320		Longitude 94 30 31.0454388
Elevation (M)* 355.241		Ellipsoid Height (M): 326.922
Northing (SFT) 681,869.8272		Geoid Height (M): -28.225
Easting (SFT) 572,036.6906		
Elevation (SFT)* 1,165.487		

Convergence Angle -1 27 35.1574661	Scale Factor 0.999990029	Location Description
Elevation Adjust. Factor 0.9999442542	Combined Adjust. Factor 0.9999342838	<p>TO REACH THE STATION FROM THE ARKANSAS AND OKLAHOMA STATE LINE, LOCATED ON THE WEST SIDE OF SILOAM SPRINGS, GO EAST ON U.S. HIGHWAY 412 FOR 5.71 KM (3.55 MI) TO THE STATION ON THE RIGHT. THE STATION IS 22.56 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 412, 11.50 METERS WEST OF THE CENTER OF A PASTURE ENTRANCE AND 1.85 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "91040001" SET ON TOP OF AN IRON 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
SUPERCEDED CONTROL		
Horizontal Datum NAD 83 (1986)		
Latitude 36 10 50.6693892		
Longitude 94 30 31.0470984		
Ellipsoid Height: 326.115		
Grid Northing (Meters) 207,834.8770		
Grid Easting (Meters) 174,357.1043		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC COMBINATION POLE	272		25.82	84.7
MK # 2	NBC FENCE POST	85		9.28	30.4
MK # 3	NBC COMBINATION POLE	88		25.28	82.9

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: OLD MAIN</p> <p>Ref Mon # 2: FLINT</p> <p>Ref Mon # 3: V 26</p>	<p style="text-align: center;">Comments</p> <p>OLD PN: 91040001</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040001A	Date Monumented 12/1/1998	Monumented By AHTD	County BENTON	Route 412	Job Number: 090024
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 207,852.6910		Latitude 36 10 51.6435024
Easting (M) 174,837.1620		Longitude 94 30 11.8598544
Elevation (M)* 350.727		Ellipsoid Height (M): 322.439
		Geoid Height (M): -28.219

Northing (SFT) 681,930.0371		
Easting (SFT) 573,611.5890		
Elevation (SFT)* 1,150.677		

Convergence Angle -1 27 23.9933913		
Scale Factor 0.999990079		
Elevation Adjust. Factor 0.9999449625		
Combined Adjust. Factor 0.9999350421		

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

Location Description

TO REACH THE STATION FROM THE ARKANSAS AND OKLAHOMA STATE LINE, LOCATED ON THE WEST SIDE OF SILOAM SPRINGS, GO EAST ON U.S. HIGHWAY 412 FOR 6.20 KM (3.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 19.20 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 412, 3.85 METERS WEST OF THE CENTER OF A PASTURE ENTRANCE AND 1.38 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040001A" SET ON TOP OF AN IRON 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	IN LINE BRACE POST	324		1.84	6.0
MK # 2	CORNER POST	41		2.28	7.5
MK # 3	GATE POST	71		1.84	6.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 OLD MAIN</p> <p>Ref Mon # 2 FLINT</p> <p>Ref Mon # 3 V 26</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040002	Date Monumented 3/15/1991	Monumented By AHTD	County BENTON	Route 412	Job Number: 1634
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 207,850.6330		Geoid Datum:
Easting (M) 174,906.6360		Latitude 36 10 51.6340452
Elevation (M)* 		Longitude 94 30 9.0783504
Northing (SFT) 681,923.2851		Ellipsoid Height (M): 321.446
Easting (SFT) 573,839.5216		Geoid Height (M): -28.730
Elevation (SFT)* 		

Convergence Angle -1 27 22.3748365	Location Description FROM SILOAM SPRINGS, GO EAST ON HWY. 412 3.90 MILES TO STATION ON THE LEFT. THE STATION IS 65.40 FEET LEFT OF CENTERLINE OF HWY. 412, 5.20 FEET SOUTH OF A WITNESS POST, ACROSS HWY. FROM 4 R'S CONSTRUCTION CO. DRIVEWAY, APPROXIMATELY 250 FEET EAST OF FIRE HYDRANT.
Scale Factor 0.999990079	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE	0	0.00	0.0	AZ Mark Station 91040001
MK # 2	NONE	0	0.00	0.0	Geodetic Azimuth 266 54 06
MK # 3	NONE	0	0.00	0.0	Grid Azimuth 268 21 28

Area Reference Monuments (used for Processing) Ref Mon # 1 SILOPORT Ref Mon # 2 DECAPORT Ref Mon # 3 BENTPORT	Comments OLD PN: 91040002
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040003	Date Monumented 3/15/1991	Monumented By AHTD	County BENTON	Route 412	Job Number: 1634
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 207,010.1289		Geoid Datum:
Easting (M) 179,630.3880		Latitude 36 10 28.2272124
Elevation (M)* 		Longitude 94 26 59.2581840
Northing (SFT) 679,165.7312		Ellipsoid Height (M): 272.682
Easting (SFT) 589,337.3646		Geoid Height (M): -28.694
Elevation (SFT)* 		

Convergence Angle -1 25 31.9186472	Location Description FROM STATE LINE IN SILOAM SPRINGS, GO 7.125 MILES TO A COUNTY ROAD JCT. AND STATION ON THE LEFT, IN CORNER OF PASTURE ON LEFT SIDE OF COUNTY ROAD, ACROSS HWY. FROM WEST ENTRANCE OF REST AREA, 3.30 FEET SOUTH OF A WITNESS POST.
Scale Factor 0.999988904	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN TELEPHONE POLE	135	8.69	28.5	AZ Mark Station 91040004 AZ. MK.
MK # 2	TOP EDGE OF STEEL FENCE POST	120	6.92	22.7	Geodetic Azimuth 319 32 15
MK # 3	NONE	0	0.00	0.0	Grid Azimuth 320 57 47

Area Reference Monuments (used for Processing) Ref Mon # 1 SILOPORT Ref Mon # 2 DECAPORT Ref Mon # 3 BENTPORT	Comments OLD PN: 91040003
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040004	Date Monumented 3/15/1991	Monumented By AHTD	County BENTON	Route 412	Job Number: 1634
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	207,226.9210	
Easting (M)	179,454.6010	
Elevation (M)*		
Northing (SFT)	679,876.9900	
Easting (SFT)	588,760.6368	
Elevation (SFT)*		

Convergence Angle	-1	25	36.1363310
Scale Factor	0.999989248		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Description			
<p>FROM SILOAM SPRINGS, GO 7.125 MILES EAST FROM STATE LINE TO COUNTY ROAD ON LEFT, GO 0.08 MILES TO FIELD ROAD ON LEFT AND CONTINUE ON TO GAP IN CROSS FENCE. PASS THROUGH GAP AND CONTINUE TO TOP OF HILL AND STATION, 2.40 FEET EAST OF A WITNESS POST.</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NBC IN POWER POLE	335	16.55	54.3	91040003
MK # 2	NONE	0	0.00	0.0	139 32 11
MK # 3	NONE	0	0.00	0.0	140 57 47

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SILOPORT Ref Mon # 2 DECAPORT Ref Mon # 3 BENTPORT	OLD PN: 91040004

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040005	Date Monumented 3/15/1991	Monumented By AHTD	County BENTON	Route 412	Job Number: 1634
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	207,138.9389	
Easting (M)	187,111.2620	
Elevation (M)*		
Northing (SFT)	679,588.3354	
Easting (SFT)	613,880.8654	
Elevation (SFT)*		

Convergence Angle	-1	22	37.8460688
Scale Factor	0.999989410		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 10" ELM	0	16.67	54.7
MK # 2	NBC IN TELEPHONE POLE	40	16.46	54.0
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SILOPORT	OLD PN: 91040005
Ref Mon # 2 DECAPORT	
Ref Mon # 3 BENTPORT	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 10 38.3406816
Longitude	94 22 0.1125588
Ellipsoid Height (M):	280.818
Geoid Height (M):	-28.649

Location Description
<p>FROM SILOAM SPRINGS, GO 12.12 MILES EAST FROM STATE LINE ON HWY. 412 TO THE STATION ON THE RIGHT, THE STATION IS 0.30 FEET SOUTH OF A WITNESS POST, 750 FEET EAST OF A LARGE BARN.</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160022	Date Monumented 6/11/2002	Monumented By AHTD	County CRAIGHEAD	Route 18	Job Number: 100306
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 170,348.3429		Latitude 35 51 28.0430280
Easting (M) 547,384.6850		Longitude 90 22 5.2650696
Elevation (M)* 70.899		Ellipsoid Height (M): 42.903
		Geoid Height (M): -27.963

Northing (SFT) 558,884.5217		
Easting (SFT) 1,795,877.9207		
Elevation (SFT)* 232.608		

Convergence Angle 0 56 58.5031335		
Scale Factor 0.999947296		
Elevation Adjust. Factor 0.9999888738		
Combined Adjust. Factor 0.9999361703		

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

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 139 IN THE TOWN OF MONETTE, GO WEST 3.58 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7.65 METERS FROM THE CENTERLINE OF STATE HIGHWAY 18, 6.32 METERS WEST OF THE END OF THE BRIDGE, 9.50 METERS FROM THE CENTERLINE OF FIELD ENTRANCE, AND 0.77 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "160022 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK TOP METAL GUARD RAIL PO	40	1.18	3.9
MK # 2	PUNCH MARK TOP METAL GUARD RAIL PO	5	1.63	5.3
MK # 3	PUNCH MARK TOP METAL GUARD RAIL PO	0	5.44	17.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD PAR 1	Elevation based on levels by consultant for Job# 100567
Ref Mon # 2 VILLPORT	
Ref Mon # 3 MANIPORT	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160022A	Date Monumented 6/11/2002	Monumented By AHTD	County CRAIGHEAD	Route 18	Job Number: 100306
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 171,037.7769		Latitude 35 51 50.4204264
Easting (M) 547,365.1690		Longitude 90 22 5.5874532
Elevation (M)* 70.230		Ellipsoid Height (M): 42.223
Northing (SFT) 561,146.4397		Geoid Height (M): -27.972
Easting (SFT) 1,795,813.8920		
Elevation (SFT)* 230.413		

Convergence Angle	0	56	58.3155387
Scale Factor	0.999947819		
Elevation Adjust. Factor	0.9999889787		
Combined Adjust. Factor	0.9999367983		

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	EAST END CORRUGATED METAL PIPE	169	5.15	16.9	AZ Mark Station 160022
MK # 2					Geodetic Azimuth 179 19 41
MK # 3					Grid Azimuth 178 22 43

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD PAR 1 Ref Mon # 2 VILLPORT Ref Mon # 3 MANIPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation based on levels by consultant for Job# 100567</td> </tr> </table>	Comments	Elevation based on levels by consultant for Job# 100567
Comments			
Elevation based on levels by consultant for Job# 100567			

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160023	Date Monumented 6/11/2002	Monumented By MY CORPS OF	County CRAIGHEAD	Route 18	Job Number: 100308, 100653
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 173,993.7720		Latitude 35 53 24.6479568
Easting (M) 550,441.0240		Longitude 90 20 1.0038804
Elevation (M)* 72.048		Ellipsoid Height (M): 43.987
Northing (SFT) 570,844.5670		Geoid Height (M): -28.016
Easting (SFT) 1,805,905.2596		
Elevation (SFT)* 236.377		

Convergence Angle 0 58 10.8106111	Scale Factor 0.999950148	Location Description
Elevation Adjust. Factor 0.9999886934	Combined Adjust. Factor 0.9999388420	<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 139 IN THE CITY OF MONETTE, GO EAST 0.50 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7.45 METERS FROM THE CENTERLINE OF STATE HIGHWAY 18, 12.38 METERS FROM US ARMY CORPS OF ENG. BM 0-9-7-91, 12.30 METERS FROM THE EAST END OF THE BRIDGE, AND 0.67 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "160023 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.</p>
SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	US ARMY CORPS OF ENG. BENCH MARK 0-9-7-91	275	12.38	40.6	AZ Mark Station 0-9-8-91
MK # 2	EAST END OF GUARD RAIL	90	10.88	35.7	Geodetic Azimuth 90 36 29
MK # 3					Grid Azimuth 89 38 18

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD PAR 1	Elevation based on levels by consultant for Job# 100567
Ref Mon # 2 VILLPORT	
Ref Mon # 3 MANIPOINT	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160024	Date Monumented 6/11/2002	Monumented By AHTD	County CRAIGHEAD	Route 18	Job Number: 100303
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	166,205.4999	
Easting (M)	532,344.7760	
Elevation (M)*		
Northing (SFT)	545,292.5443	
Easting (SFT)	1,746,534.4859	
Elevation (SFT)*		

Convergence Angle	0	51	8.2861955
Scale Factor	0.999944559		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END CORRUGATED METAL PIPE	245	10.40	34.1
MK # 2	WEST END CORRUGATED METAL PIPE	115	8.60	28.2
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD PAR 1 Ref Mon # 2 VILLPORT Ref Mon # 3 MANIPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 49 21.3098268

Longitude 90 32 7.1166984

Ellipsoid Height (M): 44.249

Geoid Height (M): -27.832

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 158 , GO WEST ON HIGHWAY 18 2.9 MILES TO THE STATION ON THE RIGHT. THE STATION IS 20.25 METERS FROM THE CENTERLINE OF A GRAVEL DRIVE, 19.3 METERS FROM THE CENTERLINE OF HIGHWAY 18 , 13.55 METERS FROM THE CENTERLINE OF CRAIGHEAD COUNTY ROAD 945, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "160024 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160024A	Date Monumented 6/11/2002	Monumented By AHTD	County CRAIGHEAD	Route 18	Job Number: 100303
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	166,146.4240	
Easting (M)	531,791.6660	
Elevation (M)*		
Northing (SFT)	545,098.7261	
Easting (SFT)	1,744,719.8242	
Elevation (SFT)*		

Convergence Angle	0	50	55.4444663
Scale Factor	0.999944526		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END CORRUGATED METAL PIPE	335	4.65	15.3
MK # 2	TELEPHONE JUNCTION BOX	240	19.30	63.3
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>AHTD PAR 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>VILLPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MANIPORT</td> </tr> </table>	Ref Mon # 1	AHTD PAR 1	Ref Mon # 2	VILLPORT	Ref Mon # 3	MANIPORT	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	AHTD PAR 1							
Ref Mon # 2	VILLPORT							
Ref Mon # 3	MANIPORT							
Comments								

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 49 19.6595904

Longitude 90 32 29.1853500

Ellipsoid Height (M): 43.987

Geoid Height (M): -27.826

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 158, GO WEST ON HIGHWAY 18 3.20 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.40 METERS FROM THE CENTERLINE OF HIGHWAY 18, 21.65 METERS FROM THE CENTERLINE OF HIGHWAY 18, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED " 160024A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160025	Date Monumented 12/17/2002	Monumented By AHTD	County CRAIGHEAD	Route 349	Job Number: 100569
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	168,658.1670	
Easting (M)	508,264.8420	
Elevation (M)*		
Northing (SFT)	553,339.3362	
Easting (SFT)	1,667,532.2358	
Elevation (SFT)*		

Convergence Angle	0	41	50.7695016
Scale Factor	0.999946467		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	250	24.60	80.7
MK # 2	TELEPHONE JUNCTION BOX	1	29.40	96.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER, MEM2	
Ref Mon # 2 AHTD PAR 1	
Ref Mon # 3 AHTD HAR 1	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 50 51.4508172
Longitude	90 48 5.2152192
Ellipsoid Height (M):	57.222
Geoid Height (M):	-27.683

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 91 AND STATE HIGHWAY 349, GO SOUTH ON STATE HIGHWAY 349 FOR 0.40 MILES TO THE STATION ON THE LEFT. THE STATION IS 11.0 METERS EAST OF THE CENTER OF STATE HIGHWAY 349 AND 0.30 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "160025 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160025A	Date Monumented 12/17/2002	Monumented By AHTD	County CRAIGHEAD	Route 349	Job Number: 100569
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	168,073.6880	
Easting (M)	508,235.5930	
Elevation (M)*		
Northing (SFT)	551,421.7580	
Easting (SFT)	1,667,436.2747	
Elevation (SFT)*		

Convergence Angle	0	41	49.9263256
Scale Factor	0.999946050		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	354	12.00	39.4
MK # 2	FENCE POST	185	14.60	47.9
MK # 3	NORTH END OF CORRIGATED METAL PIPE	118	4.00	13.1

Area Reference Monuments (used for Processing) Ref Mon # 1 BUTLER, MEM2 Ref Mon # 2 AHTD PAR 1 Ref Mon # 3 AHTD HAR 1	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 50 32.4991824
Longitude	90 48 6.6642264
Ellipsoid Height (M):	54.565
Geoid Height (M):	-27.678

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 91 AND STATE HIGHWAY 349, GO SOUTH ON STATE HIGHWAY 349 FOR 0.80 MILES TO THE STATION ON THE RIGHT. THE STATION IS 16.5 METERS WEST OF THE CENTER OF STATE HIGHWAY 349 AND 0.30 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "160025A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	160025
Geodetic Azimuth	3 33 43
Grid Azimuth	2 51 53

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160026	Date Monumented 10/19/2004	Monumented By AHTD	County CRAIGHEAD	Route CR203	Job Number: 100611, 100412
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	161,464.5549	
Easting (M)	507,111.8250	
Elevation (M)*	76.797	
Northing (SFT)	529,738.2939	
Easting (SFT)	1,663,749.3792	
Elevation (SFT)*	251.959	

Convergence Angle	0	41	22.0251222
Scale Factor	0.999941927		
Elevation Adjust. Factor	0.9999879481		
Combined Adjust. Factor	0.9999298758		

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

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WATER WELL	3337	7.49	24.6	
MK # 2	POWER POLE	25	7.60	24.9	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER Ref Mon # 2 MEM2 Ref Mon # 3 BLMM	3wire levels ran by S5111 from NGS K183 under Job # 100611 Elev was found to be 251.9824. In Dec.2010 Digital Levels were ran by crew S5103 in job 100412 Hydraulic Study from M 246.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160027	Date Monumented 10/19/2004	Monumented By AHTD	County CRAIGHEAD	Route 49	Job Number: 100611, 100639
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	160,995.6159	
Easting (M)	512,615.3030	
Elevation (M)*	81.873	
Northing (SFT)	528,199.7832	
Easting (SFT)	1,681,805.3733	
Elevation (SFT)*	268.612	

Convergence Angle	0	43	29.4025155
Scale Factor	0.999941638		
Elevation Adjust. Factor	0.9999871516		
Combined Adjust. Factor	0.9999287904		

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE RISER	298	16.20	53.1	AZ Mark Station 160011A
MK # 2	COMBINATION POLE	300	19.50	64.0	Geodetic Azimuth 267 18 07
MK # 3	NORTHEAST CORNER BOX CULVERT	267	13.00	42.7	Grid Azimuth 266 34 38

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER	3wire levels ran by S5111 from NGS K183 under Job # 100611. Confirmed Elevation ran with 3wire by crew S5101 from NGS C 76 under Job #100639 on 1-19-07.
Ref Mon # 2 MEM2	
Ref Mon # 3 BLMM	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160028	Date Monumented 5/30/2006	Monumented By AHTD	County Craighead	Route NA	Job Number: 100412
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	162,562.4949	
Easting (M)	494,402.6970	
Elevation (M)*	73.887	
Northing (SFT)	533,340.4520	
Easting (SFT)	1,622,052.8484	
Elevation (SFT)*	242.411	

Convergence Angle	0	36	27.8190775
Scale Factor	0.999942621		
Elevation Adjust. Factor	0.9999884049		
Combined Adjust. Factor	0.9999310265		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	168	6.80	22.3
MK # 2	Guy	165	13.19	43.3
MK # 3	water well	127	20.12	66.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 Newport Ref Mon # 3 K 183, 160010	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM M-246 and K-183</td> </tr> </table>	Comments	3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM M-246 and K-183
Comments			
3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM M-246 and K-183			

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200006	Date Monumented 1/7/1997	Monumented By AHTD	County Dallas	Route 167	Job Number: 01914,070224,RX0028, 07029
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	555,984.7769	
Easting (M)	362,194.1910	
Elevation (M)*	56.717	
Northing (SFT)	1,824,093.3889	
Easting (SFT)	1,188,298.7750	
Elevation (SFT)*	186.080	

Convergence Angle	0	13	45.3039287
Scale Factor	0.999918688		
Elevation Adjust. Factor	0.9999910993		
Combined Adjust. Factor	0.9999097880		

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

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167, 270 AND STATE HIGHWAY 46, LOCATED IN SHERDIAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 27.12 KM (16.85 MI) TO THE MARKS MEMORIAL CHURCH OF GOD IN CHRIST CHURCH AND THE STATION ON THE RIGHT. THE STATION IS 52.145 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD, 38.083 METERS SOUTH EAST OF THE CENTER OF THE CHURCH FRONT DOORS, 26.476 METERS SOUTH OF A LIGHT POLE, 19.900 METERS NORTH OF A GRAVEL ENTRANCE TO THE CHURCH, 15.271 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200006 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Light pole		287	27.63	90.6
MK # 2	Power pole		227	28.41	93.2
MK # 3	Light pole		198	25.82	84.7

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARCM, IULM,S 197,K 124	<p>3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.</p>
Ref Mon # 2	700014,270005 070003,0700	
Ref Mon # 3	T 83 N 81 070005 LROC UAM	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200006A	Date Monumented 1/7/1997	Monumented By AHTD	County Dallas	Route 167	Job Number: 001914,070244,RX0028
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	555,555.9510
Easting (M)	362,213.5050
Elevation (M)*	57.668
Northing (SFT)	1,822,686.4826
Easting (SFT)	1,188,362.1410
Elevation (SFT)*	189.201

Convergence Angle	0 13 44.8448731
Scale Factor	0.999918646
Elevation Adjust. Factor	0.9999909500
Combined Adjust. Factor	0.9999095968

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Triangle blaze in pine tree	030	13.18	43.2
MK # 2	Triangle blaze in pine tree	147	16.38	53.7
MK # 3	Triangle blaze in pine tree	254	36.96	121.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

Vertical Determined By: 3rd Order - 3 Wire Level
Elevation Datum: NAVD 88
Geoid Datum:
Latitude 34 4 6.6000036
Longitude 92 24 33.7512924
Ellipsoid Height (M): 31.676
Geoid Height (M): -25.993

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167, 270 AND STATE HIGHWAY 46, LOCATED IN SHERDIAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 27.55 KM (17.12 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.481 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167, 4.547 METERS NORTH OF THE CENTER OF A LOG ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200006A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200007	Date Monumented 6/16/1999	Monumented By AHTD	County DALLAS	Route 7	Job Number: 070160
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	539,083.0441	
Easting (M)	320,179.9050	
Elevation (M)*	49.387	
Northing (SFT)	1,768,641.6205	
Easting (SFT)	1,050,456.9050	
Elevation (SFT)*	162.031	

Convergence Angle	0	28	59.3359179
Scale Factor	0.999920536		
Elevation Adjust. Factor	0.9999922496		
Combined Adjust. Factor	0.9999127862		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE BRACE POST	315	9.41	30.9
MK # 2	WOODEN FENCE POST	130	6.40	21.0
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>S 197</td> </tr> <tr> <td>Ref Mon # 2</td> <td>HOPEPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AP 1970 STA A3 HOT</td> </tr> </table>	Ref Mon # 1	S 197	Ref Mon # 2	HOPEPORT	Ref Mon # 3	AP 1970 STA A3 HOT	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	S 197							
Ref Mon # 2	HOPEPORT							
Ref Mon # 3	AP 1970 STA A3 HOT							
Comments								

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 55 3.4546224

Longitude 92 51 47.6735040

Ellipsoid Height (M): 23.055

Geoid Height (M): -26.332

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 128 AND STATE HIGHWAY 7, LOCATED IN SPARKMAN, GO NORTH ON STATE HIGHWAY 7 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.00 METERS EAST OF THE CENTER OF STATE HIGHWAY 7 AND 0.56 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200007 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 282.239 METERS.

AZ Mark Station	200007A
Geodetic Azimuth	332 16 51.93900
Grid Azimuth	332 45 51.27920

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200007A	Date Monumented 6/16/1999	Monumented By AHTD	County DALLAS	Route 7	Job Number: 070160
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	539,333.9701	
Easting (M)	320,050.7490	
Elevation (M)*	48.267	
Northing (SFT)	1,769,464.8669	
Easting (SFT)	1,050,033.1657	
Elevation (SFT)*	158.356	

Convergence Angle	0	29	2.1963656
Scale Factor	0.999920457		
Elevation Adjust. Factor	0.9999924254		
Combined Adjust. Factor	0.9999128830		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	S 197
Ref Mon # 2	HOPEPORT
Ref Mon # 3	AP 1970 STA A3 HOT

Comments

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 55 11.5635432
Longitude	92 51 52.7842692
Ellipsoid Height (M):	21.933
Geoid Height (M):	-26.334

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 128 AND STATE HIGHWAY 7, LOCATED IN SPARKMAN, GO NORTH ON STATE HIGHWAY 7 FOR 0.97 KM (0.60 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.47 METERS NORTH OF THE CENTER OF A GRAVEL DRIVE, 10.43 METERS WEST OF THE CENTER OF STATE HIGHWAY 7 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200007A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 282.239 METERS.</p>

AZ Mark Station	200007
Geodetic Azimuth	152 16 49.08710
Grid Azimuth	152 45 51.27920

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200008	Date Monumented 6/28/2000	Monumented By AHTD	County DALLAS	Route 229	Job Number: 070161
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	560,522.6544	
Easting (M)	350,409.4351	
Elevation (M)*	83.746	
Northing (SFT)	1,838,981.4086	
Easting (SFT)	1,149,634.9550	
Elevation (SFT)*	274.757	

Convergence Angle	0	18	3.0821228
Scale Factor	0.999919401		
Elevation Adjust. Factor	0.9999868577		
Combined Adjust. Factor	0.9999062598		

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

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE				200008A	
MK # 2	NONE					
MK # 3	NONE					

Area Reference Monuments (used for Processing)		Comments ELEVATION BASED ON NGS POINT GABY AND NGS POINT G 81
Ref Mon # 1	K 124	
Ref Mon # 2	S 197	
Ref Mon # 3	300001	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200008A	Date Monumented 6/28/2000	Monumented By AHTD	County DALLAS	Route 229	Job Number: 070161
---------------------------	-------------------------------------	------------------------------	-------------------------	---------------------	------------------------------

Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	560,905.3591	
Easting (M)	350,512.4199	
Elevation (M)*	89.569	
Northing (SFT)	1,840,236.9990	
Easting (SFT)	1,149,972.8310	
Elevation (SFT)*	293.861	

Convergence Angle	0	18	0.8767248
Scale Factor	0.999919485		
Elevation Adjust. Factor	0.9999859439		
Combined Adjust. Factor	0.9999054300		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	219	13.30	43.6
MK # 2	NONE			
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>K 124</td> </tr> <tr> <td>Ref Mon # 2</td> <td>S 197</td> </tr> <tr> <td>Ref Mon # 3</td> <td>300001</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	K 124	Ref Mon # 2	S 197	Ref Mon # 3	300001	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BASED ON NGS POINT GABY AND NGS POINT G 81</td> </tr> </table>	Comments	ELEVATION BASED ON NGS POINT GABY AND NGS POINT G 81
Area Reference Monuments (used for Processing)											
Ref Mon # 1	K 124										
Ref Mon # 2	S 197										
Ref Mon # 3	300001										
Comments											
ELEVATION BASED ON NGS POINT GABY AND NGS POINT G 81											

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 6 58.4708976
Longitude	92 32 11.2036992
Ellipsoid Height (M):	63.984
Geoid Height (M):	-26.095

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION STATE HIGHWAY 229 AND STATE HIGHWAY 46 LOCATED IN LEOLA, GO SOUTH ON STATE HIGHWAY 229 FOR 9.50 KM (5.90 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.30 METERS WEST OF THE CENTER OF STATE HIGHWAY 229 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200008A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 396.360 METERS.</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200009	Date Monumented 6/28/2000	Monumented By AHTD	County DALLAS	Route 229	Job Number: 070161
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	563,171.6103	
Easting (M)	350,156.8955	
Elevation (M)*	80.471	
Northing (SFT)	1,847,672.1915	
Easting (SFT)	1,148,806.4147	
Elevation (SFT)*	264.012	

Convergence Angle	0	18	8.9030271
Scale Factor	0.999920055		
Elevation Adjust. Factor	0.9999873716		
Combined Adjust. Factor	0.9999074276		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEVATION BASED ON NGS POINT GABY AND NGS POINT G 81
Ref Mon # 2	
Ref Mon # 3	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200009A	Date Monumented 6/28/2000	Monumented By AHTD	County DALLAS	Route 229	Job Number: 070161
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	563,202.3565	
Easting (M)	349,693.3286	
Elevation (M)*	83.907	
Northing (SFT)	1,847,773.0646	
Easting (SFT)	1,147,285.5289	
Elevation (SFT)*	275.285	

Convergence Angle	0	18	19.0337816
Scale Factor	0.999920063		
Elevation Adjust. Factor	0.9999868324		
Combined Adjust. Factor	0.9999068965		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	K 124
Ref Mon # 2	S 197
Ref Mon # 3	300001

Comments
ELEVATION BASED ON NGS POINT GABY AND NGS POINT G 81

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 8 12.8831604
Longitude	92 32 43.6449336
Ellipsoid Height (M):	58.344
Geoid Height (M):	-26.105

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION STATE HIGHWAY 229 AND STATE HIGHWAY 46 LOCATED IN LEOLA, GO SOUTH ON STATE HIGHWAY 229 FOR 6.12 KM (3.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.25 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 229 AND 2.86 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200009A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 464.631 METERS.</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200010	Date Monumented 9/21/2005	Monumented By AHTD	County Dallas	Route 167	Job Number: 001914
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	535,552.7751	
Easting (M)	361,775.3730	
Elevation (M)*	70.109	
Northing (SFT)	1,757,059.3963	
Easting (SFT)	1,186,924.7029	
Elevation (SFT)*	230.015	

Convergence Angle	0	13	52.6461367
Scale Factor	0.999921711		
Elevation Adjust. Factor	0.9999889978		
Combined Adjust. Factor	0.9999107096		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Gas regulator station	127	7.17	23.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200010A	Date Monumented 9/21/2005	Monumented By AHTD	County Dallas	Route 167	Job Number: 001914
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	536,130.6731	
Easting (M)	361,617.0060	
Elevation (M)*	61.783	
Northing (SFT)	1,758,955.3833	
Easting (SFT)	1,186,405.1272	
Elevation (SFT)*	202.701	

Convergence Angle	0	13	56.1468327
Scale Factor	0.999921485		
Elevation Adjust. Factor	0.9999903043		
Combined Adjust. Factor	0.9999117900		

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

Location Description				
<p>To reach the station from the junction of highways 167 and 273 north of Fordyce go north on Hwy-167 for 0.30 miles to the station on the left. 58 feet west of the center of Hwy-167 and 15 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "200010A 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the surface.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Head wall	028	10.36	34.0
MK # 2	Fence corner	258	4.87	16.0
MK # 3	Power pole	170	18.53	60.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124 Ref Mon # 2 700014,270005 070003,0700 Ref Mon # 3 T 83 N 81 070005 LROC UAM	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220011A	Date Monumented 2/9/2000	Monumented By AHTD	County DREW	Route 65	Job Number: R20094
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	522,808.6046	
Easting (M)	449,789.9668	
Elevation (M)*	45.873	
Northing (SFT)	1,715,247.8969	
Easting (SFT)	1,475,685.9161	
Elevation (SFT)*	150.502	

Convergence Angle	0	18	3.1118424
Scale Factor	0.999928839		
Elevation Adjust. Factor	0.9999928011		
Combined Adjust. Factor	0.9999216406		

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

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DREW-DESHA COUNTY LINE, LOCATED ON THE NORTHEAST SIDE OF WINCHESTER, GO SOUTH ON U.S. HIGHWAY 65 FOR 0.77 KM (0.48 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.20 METERS EAST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220011A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 449.777 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 AHTD MON 1</p> <p>Ref Mon # 2 210004</p> <p>Ref Mon # 3 090007</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220012	Date Monumented 2/9/2000	Monumented By AHTD	County DREW	Route 65	Job Number: 020138
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	517,243.6351	
Easting (M)	450,672.1007	
Elevation (M)*	46.155	
Northing (SFT)	1,696,990.1595	
Easting (SFT)	1,478,580.0504	
Elevation (SFT)*	151.427	

Convergence Angle	0	18	21.6545202
Scale Factor	0.999933198		
Elevation Adjust. Factor	0.9999927568		
Combined Adjust. Factor	0.9999259553		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END CMP	165	16.15	53.0
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	AHTD MON 1
Ref Mon # 2	210004
Ref Mon # 3	090007

Comments

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

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 43 21.1120680
Longitude	91 27 11.6725896
Ellipsoid Height (M):	20.130
Geoid Height (M):	-26.015

Location Description
<p>TO REACH THE STATION FORM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DESHA-DREW COUNTY LINE, LOCATED IN TILLAR, GO NORTH ON U.S. HIGHWAY 65 FOR 0.79 KM (0.49 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.30 METERS NORTH OF A FIELD ENTRANCE, 12.85 METERS WEST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220012 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 536.142 METERS.</p>

AZ Mark Station	220012A
Geodetic Azimuth	171 11 01.22097
Grid Azimuth	170 52 39.55920

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220012A	Date Monumented 2/9/2000	Monumented By AHTD	County DREW	Route 65	Job Number: 020138
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	516,714.3043	
Easting (M)	450,757.0975	
Elevation (M)*	46.321	
Northing (SFT)	1,695,253.5134	
Easting (SFT)	1,478,858.9107	
Elevation (SFT)*	151.971	

Convergence Angle	0	18	23.4408239
Scale Factor	0.999933652		
Elevation Adjust. Factor	0.9999927308		
Combined Adjust. Factor	0.9999263833		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	AHTD MON 1
Ref Mon # 2	210004
Ref Mon # 3	090007

Comments

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 43 3.9161424

Longitude 91 27 8.4809988

Ellipsoid Height (M): 20.316

Geoid Height (M): -26.017

Location Description

TO REACH THE STATION FORM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DESHA-DREW COUNTY LINE, LOCATED IN TILLAR, GO NORTH ON U.S. HIGHWAY 65 FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.65 METERS WEST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220012A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 536.142 METERS.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220013	Date Monumented 3/8/2001	Monumented By AHTD	County DREW	Route 425	Job Number: 20111, 020462,001873,02047
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	501,185.9605	
Easting (M)	418,504.1355	
Elevation (M)*	82.023	
Northing (SFT)	1,644,307.6054	
Easting (SFT)	1,373,042.3179	
Elevation (SFT)*	269.104	

Convergence Angle	0	6	41.6191885
Scale Factor	0.999949883		
Elevation Adjust. Factor	0.9999871281		
Combined Adjust. Factor	0.9999370117		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>STELL</td> </tr> <tr> <td>Ref Mon # 2</td> <td>S 197</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD MON 1</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	STELL	Ref Mon # 2	S 197	Ref Mon # 3	AHTD MON 1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.</td> </tr> </table>	Comments	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	STELL										
Ref Mon # 2	S 197										
Ref Mon # 3	AHTD MON 1										
Comments											
3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.											

Location Description	
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 1.34 KM (0.83 MI) TO THE STATION ON THE LEFT. THE STATION IS 20.50 METERS NORTH OF THE CENTER OF A PAVED ENTRANCE TO A FIELD, 16.25 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220013 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 870.751 METERS.</p>	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220014	Date Monumented 3/8/2001	Monumented By AHTD	County DREW	Route 425	Job Number: R20111
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	496,646.9992	
Easting (M)	417,930.6531	
Elevation (M)*	71.076	
Northing (SFT)	1,629,416.0299	
Easting (SFT)	1,371,160.8177	
Elevation (SFT)*	233.189	

Convergence Angle	0	6	28.9864024
Scale Factor	0.999955772		
Elevation Adjust. Factor	0.9999888460		
Combined Adjust. Factor	0.9999446185		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 32 16.4113512
Longitude	91 48 24.9975432
Ellipsoid Height (M):	45.274
Geoid Height (M):	-25.637

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 5.99 KM (3.72 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.75 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425, 7.90 METERS NORTH OF THE CENTER OF A GRAVEL DRIVE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220014 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 880.861 METERS.</p>

AZ Mark Station	220014A
Geodetic Azimuth	201 49 56.50793
Grid Azimuth	201 43 27.56747

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220014A	Date Monumented 3/8/2001	Monumented By AHTD	County ASHLEY	Route 425	Job Number: R20111
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	495,828.7397	
Easting (M)	417,604.6257	
Elevation (M)*	63.645	
Northing (SFT)	1,626,731.4568	
Easting (SFT)	1,370,091.1762	
Elevation (SFT)*	208.809	

Convergence Angle	0	6	21.8807380
Scale Factor	0.999956887		
Elevation Adjust. Factor	0.9999900121		
Combined Adjust. Factor	0.9999468996		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 31 49.8712908

Longitude 91 48 37.6932420

Ellipsoid Height (M): 37.859

Geoid Height (M): -25.638

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 6.97 KM (4.33 MI) TO THE STATION ON THE LEFT. THE STATION IS 18.50 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220014A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 880.861 METERS.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220015	Date Monumented 3/8/2001	Monumented By AHTD	County DREW	Route 425	Job Number: R20111
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	493,247.6704	
Easting (M)	416,241.2986	
Elevation (M)*	56.262	
Northing (SFT)	1,618,263.3986	
Easting (SFT)	1,365,618.3272	
Elevation (SFT)*	184.586	

Convergence Angle	0	5	52.2118087
Scale Factor	0.999960510		
Elevation Adjust. Factor	0.9999911707		
Combined Adjust. Factor	0.9999516811		

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

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NONE	152		3.75	12.3
MK # 2	NONE				
MK # 3	NONE				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220015A	Date Monumented 3/8/2001	Monumented By AHTD	County DREW	Route 425	Job Number: R20111
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	493,916.3193	
Easting (M)	416,538.8755	
Elevation (M)*	55.826	
Northing (SFT)	1,620,457.1242	
Easting (SFT)	1,366,594.6274	
Elevation (SFT)*	183.156	

Convergence Angle	0	5	58.6903195
Scale Factor	0.999959556		
Elevation Adjust. Factor	0.9999912392		
Combined Adjust. Factor	0.9999507955		

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

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NORTH END CMP	152	3.75	12.3	220015
MK # 2	NONE				204 05 26.51203
MK # 3	NONE				203 59 27.86564

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 STELL	
Ref Mon # 2 S 197	
Ref Mon # 3 AHTD MON 1	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220016	Date Monumented 3/8/2001	Monumented By AHTD	County DREW	Route 425	Job Number: R20111
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	487,360.7607	
Easting (M)	414,328.6588	
Elevation (M)*	64.073	
Northing (SFT)	1,598,949.4291	
Easting (SFT)	1,359,343.2747	
Elevation (SFT)*	210.213	

Convergence Angle	0	5	10.5418086
Scale Factor	0.999969388		
Elevation Adjust. Factor	0.9999899450		
Combined Adjust. Factor	0.9999593333		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 27 15.1880220

Longitude 91 50 45.1545900

Ellipsoid Height (M): 38.354

Geoid Height (M): -25.653

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 15.98 KM (9.93 MI) TO THE STATION ON THE LEFT, THE STATION IS 19.85 METERS SOUTH OF THE CENTER OF A PAVED DRIVE, 19.20 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425, 0.45 METERS EAST OF A CONCRETE RIGHT OF WAY MARKER AND 0.37 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220016 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 611.458 METERS.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220016A	Date Monumented 3/8/2001	Monumented By AHTD	County DREW	Route 425	Job Number: R20111
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	487,850.0573	
Easting (M)	414,695.3195	
Elevation (M)*	49.980	
Northing (SFT)	1,600,554.7297	
Easting (SFT)	1,360,546.2274	
Elevation (SFT)*	163.976	

Convergence Angle	0	5	18.5047266
Scale Factor	0.999968618		
Elevation Adjust. Factor	0.9999921566		
Combined Adjust. Factor	0.9999607748		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>STELL</td> </tr> <tr> <td>Ref Mon # 2</td> <td>S 197</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD MON 1</td> </tr> </table>	Ref Mon # 1	STELL	Ref Mon # 2	S 197	Ref Mon # 3	AHTD MON 1	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	STELL							
Ref Mon # 2	S 197							
Ref Mon # 3	AHTD MON 1							
Comments								

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 27 31.0519296

Longitude 91 50 30.9272352

Ellipsoid Height (M): 24.245

Geoid Height (M): -25.651

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 15.37 KM (9.55 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.45 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220016A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 661.458 METERS.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220017	Date Monumented 3/8/2001	Monumented By AHTD	County DREW	Route 425	Job Number: R20111
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	482,348.9389	
Easting (M)	413,934.8122	
Elevation (M)*	58.795	
Northing (SFT)	1,582,506.4770	
Easting (SFT)	1,358,051.1297	
Elevation (SFT)*	192.897	

Convergence Angle	0	5	1.8471181
Scale Factor	0.999977617		
Elevation Adjust. Factor	0.9999907732		
Combined Adjust. Factor	0.9999683904		

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTH END CMP	162	12.20	40.0	
MK # 2	NONE				
MK # 3	NONE				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="STELL"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="S 197"/> Ref Mon # 3 <input style="width: 150px;" type="text" value="AHTD MON 1"/>	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 24 32.5285560
Longitude	91 51 0.6894036
Ellipsoid Height (M):	33.069
Geoid Height (M):	-25.651

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 21.08 KM (13.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 22.65 METERS NORTH OF THE CENTER OF A GRAVEL DRIVE, 17.00 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220017 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 796.756 METERS.</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220017A	Date Monumented 3/8/2001	Monumented By AHTD	County DREW	Route 425	Job Number: R20111
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	481,552.2918	
Easting (M)	413,921.9847	
Elevation (M)*	47.792	
Northing (SFT)	1,579,892.8107	
Easting (SFT)	1,358,009.0448	
Elevation (SFT)*	156.798	

Convergence Angle	0	5	1.5440308
Scale Factor	0.999978981		
Elevation Adjust. Factor	0.9999924999		
Combined Adjust. Factor	0.9999714811		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END CONCRETE HEADWALL	350	12.20	40.0
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="STELL"/>	
Ref Mon # 2 <input style="width: 150px;" type="text" value="S 197"/>	
Ref Mon # 3 <input style="width: 150px;" type="text" value="AHTD MON 1"/>	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	<input style="width: 30px;" type="text" value="33"/> <input style="width: 30px;" type="text" value="24"/> <input style="width: 100px;" type="text" value="6.6708576"/>
Longitude	<input style="width: 30px;" type="text" value="91"/> <input style="width: 30px;" type="text" value="51"/> <input style="width: 100px;" type="text" value="1.2309300"/>
Ellipsoid Height (M):	<input style="width: 60px;" type="text" value="22.092"/> <input style="width: 40px;" type="text"/>
Geoid Height (M):	<input style="width: 60px;" type="text" value="-25.650"/> <input style="width: 40px;" type="text"/>

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 21.85 KM (13.58 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.40 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220017A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 796.765 METERS.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220018	Date Monumented 1/15/2002	Monumented By AHTD	County DREW	Route 278	Job Number: 001930,DDK
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	507,298.7482	
Easting (M)	410,095.0520	
Elevation (M)*		
Northing (SFT)	1,664,362.6431	
Easting (SFT)	1,345,453.5164	
Elevation (SFT)*		

Convergence Angle	0	3	39.2471897
Scale Factor	0.999942734		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					220018A
MK # 2						266 28 05
MK # 3						266 24 25

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124	
Ref Mon # 2 S 197	
Ref Mon # 3 AHTD MON 1	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220018A	Date Monumented 1/15/2002	Monumented By AHTD	County DREW	Route 278	Job Number: 001930,DDK
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	507,233.5191	
Easting (M)	409,056.2310	
Elevation (M)*		
Northing (SFT)	1,664,148.6372	
Easting (SFT)	1,342,045.3179	
Elevation (SFT)*		

Convergence Angle	0	3	16.6844467
Scale Factor	0.999942804		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					220018
MK # 2						86 27 42
MK # 3						86 24 25

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124 Ref Mon # 2 S 197 Ref Mon # 3 AHTD MON 1	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230009	Date Monumented 3/11/1998	Monumented By AHTD	County FAULKNER	Route 286	Job Number: 80122, 080676
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	82,484.3829	0.0020			
Easting (M)	350,938.1521	0.0020			
Elevation (M)*	85.975				

Northing (SFT)	270,617.5129				
Easting (SFT)	1,151,369.5873				
Elevation (SFT)*	282.070				

Convergence Angle	0	18	46.9189725		
Scale Factor	0.999975078				
Elevation Adjust. Factor	0.9999865079				
Combined Adjust. Factor	0.9999615862				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (1997)				
Latitude	35	4	32.2237344		
Longitude	92	32	16.6233840		
Ellipsoid Height:	58.058				
Grid Northing (Meters)	82,484.3941				
Grid Easting (Meters)	350,938.1310				

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN WOODEN POST		273	12.61	41.4
MK # 2	LIGHT POLE		66	20.69	67.9
MK # 3	CORNER POST OF CHAIN LINK FENCE		132	18.16	59.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR (ROCKPORT) Ref Mon # 2 ARRV (PJTC CAMPUS) Ref Mon # 3 ARSC (EARNHART HALE)	SUPERCEDED GEOID HT. WAS -27.949m

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230011A	Date Monumented 3/11/1998	Monumented By AHTD	County FAULKNER	Route 65B	Job Number: 73, 080122,012119,080496, 08
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	81,724.4790 0.0040
Easting (M)	360,669.2016 0.0040
Elevation (M)*	89.533

Northing (SFT)	268,124.3949
Easting (SFT)	1,183,295.5389
Elevation (SFT)*	293.742

Convergence Angle	0 15	3.3298176
Scale Factor	0.999976071	
Elevation Adjust. Factor	0.9999859496	
Combined Adjust. Factor	0.9999620209	

SUPERCEDED CONTROL		
Horizontal Datum	NAD 83 (1997)	
Latitude	35 4	9.1185960
Longitude	92 25	52.3829604
Ellipsoid Height:	61.775	
Grid Northing (Meters)	81,724.4761	
Grid Easting (Meters)	360,669.1810	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	169	24.40	80.1
MK # 2	POWER POLE	323	28.00	91.9
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARBT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARRV</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARBT	Ref Mon # 2	ARLR	Ref Mon # 3	ARRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> 3-Wire Levels were ran by S5105 Using NGS BM "B291" Elevation=91.423 meters NAVD88 Datum. **The Posted Elevations were ran with 3-wire levels by S5103 on 9/06 from NGS BM's B291/D291** *****OLD REFERENCE MONUMENTS FOR SUPERCEDED POSITION NAD 83 (1997) ARE ROCKPORT, PJTC CAMPUS & EARNHART HALE AND THE OLD GEOID HT. WAS -27.753m </td> </tr> </table>	Comments	3-Wire Levels were ran by S5105 Using NGS BM "B291" Elevation=91.423 meters NAVD88 Datum. **The Posted Elevations were ran with 3-wire levels by S5103 on 9/06 from NGS BM's B291/D291** *****OLD REFERENCE MONUMENTS FOR SUPERCEDED POSITION NAD 83 (1997) ARE ROCKPORT, PJTC CAMPUS & EARNHART HALE AND THE OLD GEOID HT. WAS -27.753m
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARBT										
Ref Mon # 2	ARLR										
Ref Mon # 3	ARRV										
Comments											
3-Wire Levels were ran by S5105 Using NGS BM "B291" Elevation=91.423 meters NAVD88 Datum. **The Posted Elevations were ran with 3-wire levels by S5103 on 9/06 from NGS BM's B291/D291** *****OLD REFERENCE MONUMENTS FOR SUPERCEDED POSITION NAD 83 (1997) ARE ROCKPORT, PJTC CAMPUS & EARNHART HALE AND THE OLD GEOID HT. WAS -27.753m											

Location Description TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 65B, STATE HIGHWAY 60 AND STATE HIGHWAY 365, LOCATED ON THE SOUTH SIDE OF CONWAY, GO NORTH ON US HIGHWAY 65B FOR 0.31 KM (0.19 MI) TO THE STATION ON THE LEFT. THE STATION IS 28.60 METERS WEST-SOUTHWEST OF THE CENTER OF US HIGHWAY 65B, 7.35 METERS EAST-NORTHEAST OF A CHAIN LINK FENCE AND A WITNESS POST AND 7.25 METERS WEST-SOUTHWEST OF THE WEST RAIL. THE STATION MARK IS A 50mm CAP STAMPED "AHTD GPS 230011A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	230011
Geodetic Azimuth	154 47 24.55323
Grid Azimuth	155 02 27.86051

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230012	Date Monumented 3/3/1999	Monumented By AHTD	County FAULKNER	Route 64	Job Number: 001848
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 85,305.1761		Latitude 35 6 7.8389892
Easting (M) 387,804.8110		Longitude 92 8 1.5375012
Elevation (M)* 99.979		Ellipsoid Height (M): 72.553
Northing (SFT) 279,872.0653		Geoid Height (M): -27.426
Easting (SFT) 1,272,322.9508		
Elevation (SFT)* 328.014		

Convergence Angle 0 4 40.2062521	Location Description
Scale Factor 0.999971100	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 5, LOCATED ABOUT 1.61 KM (1.00 MI) SOUTH OF EL PASO, GO WEST ON U.S. HIGHWAY 64 FOR 4.16 KM (2.59 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.45 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.99 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230012 1999" SET ON TOP OF AN IRON ROD 0.60 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 0.9999843103	
Combined Adjust. Factor 0.9999554107	

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

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					230012A	
MK # 2					69 17 47.560746	
MK # 3					69 22 27.698556	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEARPORT	LEVELS TO THE STATION WAS RUN BY CREW S5103
Ref Mon # 2 AHTD LR1	
Ref Mon # 3 EARNHART HALE	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230012A	Date Monumented 3/3/1999	Monumented By AHTD	County FAULKNER	Route 64	Job Number: 8,012154,050263Mobie LiDA
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	85,495.6265
Easting (M)	388,310.8164
Elevation (M)*	96.058
Northing (SFT)	280,496.9013
Easting (SFT)	1,273,983.0701
Elevation (SFT)*	315.149

Convergence Angle	0	4	28.5855866
Scale Factor	0.999970850		
Elevation Adjust. Factor	0.9999849256		
Combined Adjust. Factor	0.9999557761		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	6	14.0405760
Longitude	92	7	41.5688520
Ellipsoid Height:	68.642		
Grid Northing (Meters)	85,495.6141		
Grid Easting (Meters)	388,310.7760		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	67	21.34	70.0
MK # 2	GUY POLE	105	23.35	76.6
MK # 3	RCP	255	18.25	59.9

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>SEARPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD LR1</td> </tr> <tr> <td>Ref Mon # 3</td> <td>EARNHART HALE</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	SEARPORT	Ref Mon # 2	AHTD LR1	Ref Mon # 3	EARNHART HALE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>LEVELS TO THE STATION WAS RUN BY CREW S5103. RE-TIED IN APRIL 2012 BY DIGITAL LEVELS FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. TBM 996 WAS ESTABLISHED FROM NGS L 69 WHICH NO LONGER EXISTS. UPDATED ELEVATION FROM 315.1732' TO 315.1492' IN MAY 2012.</td> </tr> </table>	Comments	LEVELS TO THE STATION WAS RUN BY CREW S5103. RE-TIED IN APRIL 2012 BY DIGITAL LEVELS FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. TBM 996 WAS ESTABLISHED FROM NGS L 69 WHICH NO LONGER EXISTS. UPDATED ELEVATION FROM 315.1732' TO 315.1492' IN MAY 2012.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	SEARPORT										
Ref Mon # 2	AHTD LR1										
Ref Mon # 3	EARNHART HALE										
Comments											
LEVELS TO THE STATION WAS RUN BY CREW S5103. RE-TIED IN APRIL 2012 BY DIGITAL LEVELS FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. TBM 996 WAS ESTABLISHED FROM NGS L 69 WHICH NO LONGER EXISTS. UPDATED ELEVATION FROM 315.1732' TO 315.1492' IN MAY 2012.											

Location Description	
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 5, LOCATED ABOUT 1.61 KM (1.00 MI) SOUTH OF EL PASO, GO WEST ON U.S. HIGHWAY 64 FOR 3.62 KM (2.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.421 METERS EAST OF THE CENTER OF THE EAST GRAVEL DRIVE TO A METAL BUILDING, 11.354 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 1.00 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230012A 1999" SET ON TOP OF AN IRON ROD 1.00 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>	

Vertical Determined By:	3rd Order - 3 Wire Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 09
Latitude	35 6 14.0409792
Longitude	92 7 41.5672608
Ellipsoid Height (M):	68.544
Geoid Height (M):	-27.531

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230013	Date Monumented 4/1/1999	Monumented By AHTD	County FAULKNER	Route 64	Job Number: 080149
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	83,128.6951	
Easting (M)	373,699.1390	
Elevation (M)*	96.070	
Northing (SFT)	272,731.3938	
Easting (SFT)	1,226,044.5919	
Elevation (SFT)*	315.190	

Convergence Angle	0	10	4.1614291
Scale Factor	0.999974059		
Elevation Adjust. Factor	0.9999849237		
Combined Adjust. Factor	0.9999589831		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	AHTD LR 1
Ref Mon # 2	EARNHART HALE
Ref Mon # 3	230011

Comments

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 4 56.2306152

Longitude 92 17 18.2580072

Ellipsoid Height (M): 68.516

Geoid Height (M): -27.566

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 36, LOCATED ABOUT 8.05 KM (5.00 MI) WEST OF VILONIA, GO EAST ON U.S. HIGHWAY 64 FOR 1.61 KM (1.00 MI) TO STATION ON THE RIGHT. THE STATION IS 20.8 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230013 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230013A	Date Monumented 4/1/1999	Monumented By AHTD	County FAULKNER	Route 64	Job Number: 080149
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 82,938.5051		Latitude 35 4 50.0155500
Easting (M) 373,246.5700		Longitude 92 17 36.1012380
Elevation (M)* 93.167		Ellipsoid Height (M): 65.629
		Geoid Height (M): -27.569

Northing (SFT) 272,107.4121		
Easting (SFT) 1,224,559.7884		
Elevation (SFT)* 305.665		

Convergence Angle	0	10	14.5443895
Scale Factor	0.999974322		
Elevation Adjust. Factor	0.9999853793		
Combined Adjust. Factor	0.9999597016		

SUPERCEDED CONTROL

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

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 36, LOCATED ABOUT 8.05 KM (5.00 MI) WEST OF VILONIA, GO EAST ON U.S. HIGHWAY 64 FOR 1.13 KM (0.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 26.726 METERS WEST OF A PAVED DRIVE, 19.983 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64, 15.499 METERS EAST OF THE CENTER OF LIBERTY LP AND 1.30 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230013A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 WEST END CMP	62	22.95	75.3	AZ Mark Station 230013
MK # 2 EAST END CMP	218	11.53	37.8	Geodetic Azimuth 67 02 06.140685
MK # 3 NONE				Grid Azimuth 67 12 20.621158

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 AHTD LR 1</p> <p>Ref Mon # 2 EARNHART HALE</p> <p>Ref Mon # 3 230011</p>	<div style="border: 1px solid black; height: 100px; margin: 0;"></div> <p style="text-align: center; margin: 0;">Comments</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230014	Date Monumented 4/1/1999	Monumented By AHTD	County FAULKNER	Route 64	Job Number: 080149
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	83,083.9881	
Easting (M)	378,475.2550	
Elevation (M)*	109.071	
Northing (SFT)	272,584.7176	
Easting (SFT)	1,241,714.2324	
Elevation (SFT)*	357.844	

Convergence Angle	0	8	14.4464831
Scale Factor	0.999974103		
Elevation Adjust. Factor	0.9999828835		
Combined Adjust. Factor	0.9999569869		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	AHTD LR 1
Ref Mon # 2	EARNHART HALE
Ref Mon # 3	230011

Comments

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 4 55.1926092
Longitude	92 14 9.7116756
Ellipsoid Height (M):	81.587
Geoid Height (M):	-27.497

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U. S. HIGHWAY 64 AND STATE HIGHWAY 36, LOCATED ABOUT 8.05 KM (5.00 MI) WEST OF VILONIA, GO EAST ON U.S. HIGHWAY 64 FOR 6.36 KM (3.95 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.45 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64 AND 4.81 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "230014 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230014A	Date Monumented 4/1/1999	Monumented By AHTD	County FAULKNER	Route 64	Job Number: 080149
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 83,071.4581		Latitude 35 4 54.7438980
Easting (M) 377,940.5280		Longitude 92 14 30.8192820
Elevation (M)* 109.232		Ellipsoid Height (M): 81.728
Northing (SFT) 272,543.6088		Geoid Height (M): -27.503
Easting (SFT) 1,239,959.8823		
Elevation (SFT)* 358.372		

Convergence Angle	0	8	26.7289809
Scale Factor	0.999974122		
Elevation Adjust. Factor	0.9999828582		
Combined Adjust. Factor	0.9999569807		

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

Location Reference Marks							
Description			Azimuth		Distance		
MK # 1	CP		90	47.54	156.0		AZ Mark Station 230014
MK # 2	CP		268	31.25	102.5		Geodetic Azimuth 88 31 00.731619
MK # 3	NONE						Grid Azimuth 88 39 27.385118

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD LR 1 Ref Mon # 2 EARNHART HALE Ref Mon # 3 230011	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230015	Date Monumented 4/1/1999	Monumented By AHTD	County FAULKNER	Route 64	Job Number: 080149
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	83,677.7561	
Easting (M)	382,738.3190	
Elevation (M)*	102.424	
Northing (SFT)	274,532.7715	
Easting (SFT)	1,255,700.6349	
Elevation (SFT)*	336.036	

Convergence Angle	0	6	36.5458242
Scale Factor	0.999973282		
Elevation Adjust. Factor	0.9999839266		
Combined Adjust. Factor	0.9999572090		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	255	2.35	7.7
MK # 2	CENTER OF CONCRETE HEADWALL	218	6.90	22.6
MK # 3	WEST END OF RCP	87	11.75	38.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LR 1 Ref Mon # 2 EARNHART HALE Ref Mon # 3 230011	ELAVATION ON THIS POINT WAS ESTABLISHED BY 3 WIRE LEVELING FROM TBM 901 BY CREW S5102, ELEVATION ON TBM 901 WAS ESTABLISHED BY CREW S5103.

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 107, LOCATED IN VILONIA, GO EAST ON U.S. HIGHWAY 64 FOR 0.72 KM (0.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.30 METERS WEST OF THE CENTER OF A GRAVEL DRIVE, 11.10 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230015 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230015A	Date Monumented 4/1/1999	Monumented By AHTD	County FAULKNER	Route 64	Job Number: 080149,050263
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Vertical Determined By:</td> <td colspan="3">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="3">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="3"></td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>5</td> <td>11.0170536</td> </tr> <tr> <td>Longitude</td> <td>92</td> <td>11</td> <td>40.5012192</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>74.443</td> <td colspan="2"></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-27.459</td> <td colspan="2"></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality			Elevation Datum:	NAVD 88			Geoid Datum:				Latitude	35	5	11.0170536	Longitude	92	11	40.5012192	Ellipsoid Height (M):	74.443			Geoid Height (M):	-27.459		
Vertical Determined By:	LEVEL - Unkown Quality																													
Elevation Datum:	NAVD 88																													
Geoid Datum:																														
Latitude	35		5	11.0170536																										
Longitude	92		11	40.5012192																										
Ellipsoid Height (M):	74.443																													
Geoid Height (M):	-27.459																													
Horizontal Datum NAD 83 (1997)																														
Northing (M)	83,563.3751																													
Easting (M)	382,255.9860																													
Elevation (M)*	101.877																													
Northing (SFT)	274,157.5065																													
Easting (SFT)	1,254,118.1807																													
Elevation (SFT)*	334.241																													

Convergence Angle	0	6	47.6210486
Scale Factor	0.999973438		
Elevation Adjust. Factor	0.9999840124		
Combined Adjust. Factor	0.9999574509		

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

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 107, LOCATED IN VILONIA, GO EAST ON U.S. HIGHWAY 64 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 49.065 METERS EAST OF A CONCRETE DRIVE, 10.190 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64 AND 1.90 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230015A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks											
Description		Azimuth	Distance								
			Meters	Feet							
MK # 1	EAST END OF RCP	251	44.68	146.6	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">AZ Mark Station</td> <td>230015</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>76 32 05.346271</td> </tr> <tr> <td>Grid Azimuth</td> <td>76 38 52.89991</td> </tr> </table>	AZ Mark Station	230015	Geodetic Azimuth	76 32 05.346271	Grid Azimuth	76 38 52.89991
AZ Mark Station	230015										
Geodetic Azimuth	76 32 05.346271										
Grid Azimuth	76 38 52.89991										
MK # 2	NONE										
MK # 3	NONE										

Area Reference Monuments (used for Processing)	Comments						
<table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>AHTD LR 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>EARNHART HALE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>230011</td> </tr> </table>	Ref Mon # 1	AHTD LR 1	Ref Mon # 2	EARNHART HALE	Ref Mon # 3	230011	<p>Used to process data for photogrammetry on job 050263. Resulted in Northing Error of 0.3' and Easting Error of 0.1'</p>
Ref Mon # 1	AHTD LR 1						
Ref Mon # 2	EARNHART HALE						
Ref Mon # 3	230011						

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230016	Date Monumented 3/24/2000	Monumented By AHTD	County FAULKNER	Route 285	Job Number: 008570
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 96,717.0203		Latitude 35 12 15.2948484
Easting (M) 358,418.6473		Longitude 92 27 23.9544504
Elevation (M)* 95.716		Ellipsoid Height (M): 67.739
		Geoid Height (M): -27.977

Northing (SFT) 317,312.4241	Easting (SFT) 1,175,911.8454	Location Description
Elevation (SFT)* 314.028		<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 285 AND STATE HIGHWAY 25, LOCATED IN WOOSTER, GO NORTH ON STATE HIGHWAY 285 FOR 0.24 KM (0.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS 29.00 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE, 12.00 METERS EAST OF THE CENTER OF STATE HIGHWAY 285 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230016 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 498.911 METERS. ELEVATION ON THIS MARK WAS ESTABLISH BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK D 18.</p>
Convergence Angle 0 15 56.6156612		
Scale Factor 0.999957794		
Elevation Adjust. Factor 0.9999849793		
Combined Adjust. Factor 0.9999427739		

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE JUNCTION BOX	171	19.00	62.3	AZ Mark Station 230016A
MK # 2	NONE				Geodetic Azimuth 359 11 23.72766
MK # 3	NONE				Grid Azimuth 359 27 20.34408

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 EARNHART HALE	Elevation by 3 Wire from NGS point D 18
Ref Mon # 2 PJTC CAMPUS	
Ref Mon # 3 230011	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330011	Date Monumented 3/9/2015	Monumented By CLSI	County Izard	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	198,000.7208 0.0020
Easting (M)	387,146.1997 0.0020
Elevation (M)*	108.330

Northing (SFT)	649,607.3648
Easting (SFT)	1,270,162.1568
Elevation (SFT)*	355.412

Convergence Angle	0 4 59.0937265
Scale Factor	0.999979227
Elevation Adjust. Factor	0.9999829998
Combined Adjust. Factor	0.9999622272

SUPERCEDED CONTROL	
Horizontal Datum	NAD 83 (2011)
Latitude	36 7 4.5703920
Longitude	92 8 33.9959148
Ellipsoid Height:	80.173
Grid Northing (Meters)	198,000.7298
Grid Easting (Meters)	387,146.1976

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NW CORNER "JERALD'S STATION" BUILDIN	160	14.97	49.1
MK # 2	CL HWY. 5	265	9.60	31.5
MK # 3	POWER POLE	245	2.19	7.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARM3 Ref Mon # 2 ARHR Ref Mon # 3 ARPG	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231 (GEOID 12A HT. -28.0805m).

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330011A	Date Monumented 3/9/2015	Monumented By CLSI	County Izard	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	198,007.7236 0.0020
Easting (M)	386,872.3087 0.0020
Elevation (M)*	136.077
Northing (SFT)	649,630.3398
Easting (SFT)	1,269,263.5661
Elevation (SFT)*	446.447

Convergence Angle	0 5 5.4670979
Scale Factor	0.999979237
Elevation Adjust. Factor	0.9999786455
Combined Adjust. Factor	0.9999578829

SUPERCEDED CONTROL	
Horizontal Datum	NAD 83 (2011)
Latitude	36 7 4.7846460
Longitude	92 8 44.9487888
Ellipsoid Height:	107.912
Grid Northing (Meters)	198,007.7349
Grid Easting (Meters)	386,872.3025

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	280	27.98	91.8
MK # 2	POWER POLE	140	12.50	41.0
MK # 3	POWER POLE	55	9.97	32.7

Area Reference Monuments (used for Processing) Ref Mon # 1 ARM3 Ref Mon # 2 ARHR Ref Mon # 3 ARPG	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231 (GEOID 12A HT. -28.0826m).</td> </tr> </table>	Comments	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231 (GEOID 12A HT. -28.0826m).
Comments			
ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231 (GEOID 12A HT. -28.0826m).			

Location Description
FROM THE INTERSECTION OF HWY. 5 AND HWY. 56, GO SOUTH 350 FEET ALONG HWY. 5 TO THE INTERSECTION OF HWY.5 (MAIN ST.) AND CALICO ST., TURN RIGHT (WEST) ON CALICO ST. AND GO 855 FEET TO THE STATION MARK ON THE RIGHT, BEING 14.0 FEET NORTH OF THE CENTERLINE OF CALICO ST. AND 1.0 FEET SOUTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "330011A", SET ON TOP OF A 5/8" REBAR.

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID 18
Latitude	36 7 4.7842788
Longitude	92 8 44.9485404
Ellipsoid Height (M):	107.970 0.0110
Geoid Height (M):	-28.093 0.0110

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330012	Date Monumented 3/9/2015	Monumented By CLSI	County Izard	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	199,573.3098	0.0030	
Easting (M)	385,634.1924	0.0020	
Elevation (M)*	171.572		
Northing (SFT)	654,766.7672		
Easting (SFT)	1,265,201.5129		
Elevation (SFT)*	562.900		

Convergence Angle	0	5	34.3357179
Scale Factor	0.999981556		
Elevation Adjust. Factor	0.9999730754		
Combined Adjust. Factor	0.9999546319		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL HWY. 5	40	32.90	107.9
MK # 2	CL ROADRUNNER LN.	130	8.84	29.0
MK # 3	TELEPHONE POLE	220	4.33	14.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 100%;" type="text" value="ARM3"/> Ref Mon # 2 <input style="width: 100%;" type="text" value="ARHR"/> Ref Mon # 3 <input style="width: 100%;" type="text" value="ARPG"/>	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

Location Description	
FROM THE INTERSECTION OF HWY. 5 AND HWY. 56, GO NORTH ALONG HWY. 5; 1.50 MILES TO THE STATION MARK ON THE LEFT, BEING 32.9 FEET SOUTHWEST OF THE CENTERLINE OF HWY.5 AND 1.0 FEET NORTHWEST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "330012", SET ON TOP OF A 5/8" REBAR.	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330012A	Date Monumented 3/9/2015	Monumented By CLSI	County Izard	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	199,835.7997 0.0030
Easting (M)	385,419.0991 0.0030
Elevation (M)*	185.257
Northing (SFT)	655,627.9528
Easting (SFT)	1,264,495.8276
Elevation (SFT)*	607.797

Convergence Angle	0 5 39.3516309
Scale Factor	0.999981951
Elevation Adjust. Factor	0.9999709280
Combined Adjust. Factor	0.9999528795

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

Location Description	
<p>FROM THE INTERSECTION OF HWY. 5 AND HWY. 56, GO NORTH ALONG HWY. 5; 1.70 MILES TO THE STATION MARK ON THE LEFT, BEING 32.5 FEET SOUTHWEST OF THE CENTERLINE OF HWY.5 AND 1.0 FEET NORTHWEST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "330012A", SET ON TOP OF A 5/8" REBAR.</p>	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	24" PINE TREE	250	13.14	43.1
MK # 2	POWER POLE	170	11.19	36.7
MK # 3	CL HWY. 5	58	9.91	32.5

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARM3</p> <p>Ref Mon # 2 ARHR</p> <p>Ref Mon # 3 ARPG</p>	<p style="text-align: center;">Comments</p> <p>ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330013	Date Monumented 3/9/2015	Monumented By CLSI	County Izard	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	202,054.5839	0.0020	
Easting (M)	383,693.4549	0.0020	
Elevation (M)*	204.890		
Northing (SFT)	662,907.4140		
Easting (SFT)	1,258,834.2766		
Elevation (SFT)*	672.210		

Convergence Angle	0	6	19.6087205
Scale Factor	0.999985356		
Elevation Adjust. Factor	0.9999678471		
Combined Adjust. Factor	0.9999532036		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	23" PINE TREE	210	23.90	78.4
MK # 2	CL GRAVEL DRWY	85	18.90	62.0
MK # 3	CL HWY. 5	0	10.48	34.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="ARM3"/>	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
Ref Mon # 2 <input type="text" value="ARHR"/>	
Ref Mon # 3 <input type="text" value="ARPG"/>	

AZ Mark Station	330013A
Geodetic Azimuth	
Grid Azimuth	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330013A	Date Monumented 3/9/2015	Monumented By CLSI	County Izard	Route 5	Job Number: 012231
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	202,171.6102 0.0030
Easting (M)	383,185.6081 0.0030
Elevation (M)*	212.023
Northing (SFT)	663,291.3578
Easting (SFT)	1,257,168.1159
Elevation (SFT)*	695.613

Convergence Angle	0 6 31.4362993
Scale Factor	0.999985537
Elevation Adjust. Factor	0.9999667277
Combined Adjust. Factor	0.9999522652

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

Location Reference Marks	
Description	Azimuth
	Distance
	Meters Feet
MK # 1 CL GRAVEL DRWY	100 16.79 55.1
MK # 2 18" POST OAK	335 9.42 30.9
MK # 3 CL HWY. 5	190 8.20 26.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARM3	ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
Ref Mon # 2 ARHR	
Ref Mon # 3 ARPG	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12A
Latitude	36 9 19.6761888
Longitude	92 11 12.6875508
Ellipsoid Height (M):	183.775 0.0140
Geoid Height (M):	-28.140

Location Description
<p>FROM THE INTERSECTION OF THE BAXTER AND IZARD COUNTY LINE WITH HWY.5, GO SOUTH ALONG HWY. 5; 1.60 MILES TO THE STATION MARK ON THE LEFT, BEING 26.9 FEET NORTH OF THE CENTERLINE OF HWY.5, 55.1 FEET WEST OF THE CENTER OF A GRAVEL DRIVEWAY AND 1.0 FEET SOUTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "330013A", SET ON TOP OF A 5/8" REBAR.</p>

AZ Mark Station	330013
Geodetic Azimuth	
Grid Azimuth	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330014	Date Monumented 9/8/2015	Monumented By AHTD	County IZARD	Route 69B	Job Number: B089
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	190,040.1775
Easting (M)	416,298.4519
Elevation (M)*	214.928
Northing (SFT)	623,490.1490
Easting (SFT)	1,365,805.8376
Elevation (SFT)*	705.141

Convergence Angle	0 6 18.9065290
Scale Factor	0.999968353
Elevation Adjust. Factor	0.9999662720
Combined Adjust. Factor	0.9999346261

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

Vertical Determined By:	None
Elevation Datum:	
Geoid Datum:	GEOID96
Latitude	36 2 46.1083200
Longitude	91 49 8.8449960
Ellipsoid Height (M):	187.083
Geoid Height (M):	-27.848

Location Description
<p>TO REACH FROM THE JUNCTION OF HWY. 69B AND HWY. 289 IN SAGE. GO 102 FT. SOUTHEAST OF THE CENTER OF HWY. 69B AND HWY. 289 JUNCTION, AND 42 FT. SOUTH OF THE CENTERLINE OF HWY. 69B. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "330014 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	70	6.40	21.0
MK # 2	WOODEN FENCE CORNER	126	1.20	3.9
MK # 3	POWER POLE	341	30.80	101.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ARHR
<p>Elevation is based on three wire from the static GPS observation on AHTD GPS Mon 330014A.</p>	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330014A	Date Monumented 9/8/2015	Monumented By AHTD	County IZARD	Route 289	Job Number: B089
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	190,523.1583	
Easting (M)	416,285.1457	
Elevation (M)*		
Northing (SFT)	625,074.7285	
Easting (SFT)	1,365,762.1822	
Elevation (SFT)*		

Convergence Angle	0	6	18.6177977
Scale Factor	0.999968967		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	242	0.90	3.0
MK # 2	POWER POLE W/2 GUY WIRES	161	7.60	24.9
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARPG Ref Mon # 3 ARHR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation is based on static GPS observation.</td> </tr> </table>	Comments	Elevation is based on static GPS observation.
Comments			
Elevation is based on static GPS observation.			

Location Description
TO REACH FROM THE JUNCTION OF HWY. 289 AND HWY. 69B IN SAGE. GO NORTH ON HWY 289 FOR 0.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 38 FT. WEST OF THE CENTERLINE OF HWY. 289. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "330014A 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330015	Date Monumented 12/23/2015	Monumented By AHTD	County IZARD	Route 56	Job Number: 50331
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	207,319.9680	0.0024			
Easting (M)	416,201.1255	0.0024			
Elevation (M)*					
Northing (SFT)	680,182.2617				
Easting (SFT)	1,365,486.5259				
Elevation (SFT)*					

Convergence Angle	0	6	17.3788693
Scale Factor	0.999993936		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	6 INCH OAK TREE	58	6.60	21.7
MK # 2	4 INCH OAK TREE	180	8.60	28.2
MK # 3	10 INCH OAK TREE	280	13.10	43.0

Area Reference Monuments (used for Processing) Ref Mon # 1 P777 Ref Mon # 2 ARBT Ref Mon # 3 ARM3	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	36 12 6.7451760
Longitude	91 49 11.4702960
Ellipsoid Height (M):	204.837 0.0091
Geoid Height (M):	-28.060

Location Description
TO REACH FROM THE POST OFFICE IN VIOLET HILL GO EAST ON HWY. 56 FOR 0.50 MILES TO JOHNSON VIEW RD. ON THE LEFT, GO LEFT (NORTH) ON JOHNSON VIEW RD. FOR 3.1 MILES TO A GATE ON THE RIGHT, PASS THROUGH GATE AND GO +/- 225 FT. TO THE STATION NEAR THE EAST SIDE OF THE CREST OF THE HILL.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330015A	Date Monumented 12/23/2015	Monumented By AHTD	County IZARD	Route 56	Job Number: 50331
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	206,266.4125 0.0025
Easting (M)	416,091.8521 0.0025
Elevation (M)*	
Northing (SFT)	676,725.7217
Easting (SFT)	1,365,128.0181
Elevation (SFT)*	

Convergence Angle	0 6 14.7889387
Scale Factor	0.999992164
Elevation Adjust. Factor	
Combined Adjust. Factor	

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

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 P777	
Ref Mon # 2 ARBT	
Ref Mon # 3 ARM3	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	36 11 32.5705920
Longitude	91 49 15.9211200
Ellipsoid Height (M):	224.327 0.0101
Geoid Height (M):	-28.047

Location Description
<p>TO REACH FROM THE POST OFFICE IN VIOLET HILL GO EAST ON HWY. 56 FOR 0.50 MILES TO JOHNSON VIEW RD. ON THE LEFT, GO LEFT (NORTH) ON JOHNSON VIEW ROAD FOR 2.40 MILES TO THE CREST OF A HILL AND THE STATION ON THE RIGHT. THE STATION IS 1.5 METERS WEST OF A FENCE AND 7.4 METERS EAST OF THE CENTETRLINE OF THE ROAD. IT IS ACROSS THE ROAD FROM A DOUBLE GATE. THERE ARE NO REFERENCE MARKS</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340001	Date Monumented 11/3/1993	Monumented By AHTD	County JACKSON	Route 67	Job Number: RX0017
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Northing (M) 144,631.9320		Geoid Datum:
Easting (M) 468,959.5830		Latitude 35 38 4.5831552
Elevation (M)* 71.734		Longitude 91 14 19.0099572
Northing (SFT) 474,513.2636		Ellipsoid Height (M):
Easting (SFT) 1,538,578.2319		Geoid Height (M): -28.310
Elevation (SFT)* 235.347		

Convergence Angle 0 26 34.9797159	Location Description FROM THE JCT. OF HWY. 67 AND HWY. 17 EAST OF NEWPORT, GO NORTH ON HWY. 67 FOR 2.95 MILES (4.75 KM) TO THE STATION ON THE LEFT. THE STATION IS LOCATED IN THE MEDIAN 9.142 METERS WEST OF THE EDGE OF THE NORTHBOUND CONCRETE LANE, 9.153 METERS EAST OF THE EDGE OF THE SOUTHBOUND CONCRETE LANE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "340001" ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH.
Scale Factor 0.999936320	
Elevation Adjust. Factor 0.9999887427	
Combined Adjust. Factor 0.9999250634	

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station 34001A
MK # 2	NONE				Geodetic Azimuth 180 53 43.13096
MK # 3	NONE				Grid Azimuth 180 27 08.15114

Area Reference Monuments (used for Processing) Ref Mon # 1 SEDGWICK Ref Mon # 2 NEWSPORT Ref Mon # 3 WALDENBURG	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340001A	Date Monumented 11/3/1993	Monumented By AHTD	County JACKSON	Route 67	Job Number: RX0017
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 144,165.6730		Latitude 35 37 49.4551416
Easting (M) 468,955.9030		Longitude 91 14 19.2995124
Elevation (M)* 72.942		Ellipsoid Height (M):
Northing (SFT) 472,983.5455		Geoid Height (M): -28.306
Easting (SFT) 1,538,566.1584		
Elevation (SFT)* 239.311		

Convergence Angle	0	26	34.8112240
Scale Factor	0.999936259		
Elevation Adjust. Factor	0.9999885532		
Combined Adjust. Factor	0.9999248129		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEDGWICK	
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 WALDENBURG	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340002	Date Monumented 11/3/1993	Monumented By AHTD	County JACKSON	Route N/A	Job Number: RX0017
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	148,198.8710	
Easting (M)	471,462.5160	
Elevation (M)*	71.451	
Northing (SFT)	486,215.7959	
Easting (SFT)	1,546,789.9379	
Elevation (SFT)*	234.419	

Convergence Angle	0	27	33.5294614
Scale Factor	0.999936964		
Elevation Adjust. Factor	0.9999887871		
Combined Adjust. Factor	0.9999257518		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC POWER POLE	180	50.83	166.8
MK # 2	NBC POWER POLE	3	42.44	139.2
MK # 3	NONE			

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	SEDGWICK	
Ref Mon # 2	NEWSPORT	
Ref Mon # 3	WALDENBURG	

Location Description	
<p>THE STATION IS LOCATED IN T-12-N R-2-W IN THE NE 1/4 OF THE NE 1/4 OF SECTION 20. FROM THE JCT. OF HWY. 67 AND HWY. 18 NORTH OF NEWPORT, GO EAST ON HWY. 18 FOR 2.90 KM (1.8 MILES) TO THE JCT. WITH HWY. 980, TURN LEFT AND CONTINUE AHEAD ON HWY. 18 FOR 1.69 KM (1.05 MILES) TO A SHARP CURVE AND CO. RD. NO. 43 STRAIGHT AHEAD, TAKE CO. RD. NO. 43 AND GO 0.80 KM (0.50 MILES) TO A CURVE RIGHT, TURN RIGHT (EAST) AND GO 0.80 KM (0.50 MILES) TO A CURVE LEFT, TURN LEFT AND GO 0.61 KM (0.38 MILES) TO THE STATION ON THE LEFT. THE STATION IS 7.90 METERS WEST OF THE CENTERLINE OF CO. RD. NO. 43, 57.48 METERS NORTHWEST OF A ONE STORY FRAME HOUSE AND 2.0 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "340002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.30 METERS BELOW THE GROUND SURFACE.</p>	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720001	Date Monumented 3/16/1991	Monumented By AHTD	County WASHINGTON	Route 412	Job Number: 1634,BR0405
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	208,463.1843	0.0040			
Easting (M)	190,156.4331	0.0040			
Elevation (M)*					
Northing (SFT)	683,932.9638				
Easting (SFT)	623,871.5643				
Elevation (SFT)*					

Convergence Angle	-1	21	27.6861697
Scale Factor	0.999991707		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL				
Horizontal Datum	NAD 83 (1986)			
Latitude	36	11	23.6686056	
Longitude	94	19	59.5462080	
Ellipsoid Height:	294.503			
Grid Northing (Meters)	208,463.7730			
Grid Easting (Meters)	190,156.3420			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN TOP OF FENCE POST		332	4.42	14.5
MK # 2	NBC IN TOP OF FENCE POST		12	3.41	11.2
MK # 3	NBC IN TOP OF FENCE POST		80	1.89	6.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="ARFY"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="MOA2"/> Ref Mon # 3 <input style="width: 150px;" type="text" value="CTA1"/>	OLD PN: 91720001 (Superceded Ref Monuments were Siloport, Decaport, & Bentport.)

Location Description
FROM THE WASHINGTON AND BENTON CO. LINE, GO 0.10 MILES EAST ON HWY. 412 TO A COUNTY ROAD ON THE RIGHT AND THE STATION, THE STATION IS IN A PASTURE NEAR FENCE CORNER, 12.00 FEET RIGHT OF THE CENTERLINE OF THE COUNTY ROAD, 55 FEET SOUTH OF THE CENTERLINE OF HWY. 412, 2.20 FEET SOUTH OF A WITNESS POST.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720002	Date Monumented 3/16/1991	Monumented By AHTD	County WASHINGTON	Route 412	Job Number: 1634
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	207,314.8540	
Easting (M)	190,255.7600	
Elevation (M)*		
Northing (SFT)	680,165.4835	
Easting (SFT)	624,197.4393	
Elevation (SFT)*		

Convergence Angle	-1	21	24.7402069
Scale Factor	0.999989819		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 SILOPORT Ref Mon # 2 DECAPORT Ref Mon # 3 BENTPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>OLD PN: 91720002</td> </tr> </table>	Comments	OLD PN: 91720002
Comments			
OLD PN: 91720002			

Location Description
FROM THE STATE LINE IN SILOAM SPRINGS, GO 13.45 MILES EAST TO A COUNTY ROAD ON THE RIGHT, GO 0.25 MILES TO A HOUSE ON THE LEFT, FOLLOW FIELD ROAD FOR 0.85 MILES TO THE TOP OF THE SECOND HILL AND THE STATION, 2.20 FEET SOUTHWEST OF A WITNESS POST.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720003	Date Monumented 3/16/1991	Monumented By AHTD	County WASHINGTON	Route 412	Job Number: 1634
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	207,006.1229	
Easting (M)	194,016.5560	
Elevation (M)*		
Northing (SFT)	679,152.5882	
Easting (SFT)	636,535.9841	
Elevation (SFT)*		

Convergence Angle	-1	19	57.0195921
Scale Factor	0.999989460		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TOP OF FENCE POST	55	2.84	9.3
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SILOPORT	OLD PN: 91720003 Monument Disturbed - DO NOT USE. THIS POINT WAS REFERENCED BY THE RE'S OFFICE AND WILL BE PUT BACK IN AFTER THE JOB IS COMPLETE. SINCE THE MONUMENT WILL BE DISTURBED, DO NOT USE THE STATION FOR HORIZONTAL OR VERTICAL CONTROL.
Ref Mon # 2 DECAPORT	
Ref Mon # 3 BENTPORT	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 10 39.3299472
Longitude	94 17 23.7305040
Ellipsoid Height (M):	353.674
Geoid Height (M):	-28.615

Location Description
FROM THE WASHINGTON AND BENTON COUNTY LINE, GO 2.60 MILES EAST ON HWY. 412 TO THE STATION ON THE LEFT, THE STATION IS 3.75 FEET SOUTH OF A WITNESS POST AND 34.00 FEET FROM THE CENTERLINE OF HWY. 412.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720004	Date Monumented 3/16/1991	Monumented By AHTD	County WASHINGTON	Route 412	Job Number: 1634
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	206,957.9480	
Easting (M)	194,640.3850	
Elevation (M)*		
Northing (SFT)	678,994.5344	
Easting (SFT)	638,582.6631	
Elevation (SFT)*		

Convergence Angle	-1	19	42.4708349
Scale Factor	0.999989405		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN SIDE OF FENCE POST		178	0.55	1.8
MK # 2	NBC IN SIDE OF FENCE POST		228	0.53	1.7
MK # 3	NBC IN TOP OF FENCE POST		256	3.05	10.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SILOPORT	OLD PN: 91720004 Monument Disturbed - DO NOT USE. THIS POINT WAS REFERENCED BY THE RE'S OFFICE AND WILL BE PUT BACK IN AFTER THE JOB IS COMPLETE. SINCE THE MONUMENT WILL BE DISTURBED, DO NOT USE THE STATION FOR HORIZONTAL OR VERTICAL CONTROL.
Ref Mon # 2 DECAPORT	
Ref Mon # 3 BENTPORT	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 10 38.2373328
Longitude	94 16 58.7283060
Ellipsoid Height (M):	358.597
Geoid Height (M):	-28.613

Location Description
FROM THE WASHINGTON AND BENTON COUNTY LINE, GO 3.20 MILES TO THE STATION ON THE RIGHT, STATION IS AT THE CORNER OF A WOODEN FENCE, THE STATION IS 1.25 FEET NORTH OF A WITNESS POST AND 33.80 FEET SOUTH OF THE CENTERLINE OF HWY. 412.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720005	Date Monumented 3/16/1991	Monumented By AHTD	County Washington	Route 412	Job Number: 012111
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	206,652.6910		
Easting (M)	201,201.2710		
Elevation (M)*	395.183		
Northing (SFT)	677,993.0371		
Easting (SFT)	660,107.8366		
Elevation (SFT)*	1,296.531		

Convergence Angle	-1	17	9.5717550
Scale Factor	0.999989152		
Elevation Adjust. Factor	0.9999379867		
Combined Adjust. Factor	0.9999271393		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	36	10	33.2110488
Longitude	94	12	35.9759304
Ellipsoid Height:			
Grid Northing (Meters)	206,653.2727		
Grid Easting (Meters)	201,201.1250		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN COMBINATION POLE		262	30.45	99.9
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY 040018 Ref Mon # 2 WWED 040044 Ref Mon # 3	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital Levels ran by crew S5101 in December 2009 from GPS mark 040009 which was based on NGS marks Q 310, J 27, K 310, A 27, L 309.</td> </tr> </table>	Comments	Digital Levels ran by crew S5101 in December 2009 from GPS mark 040009 which was based on NGS marks Q 310, J 27, K 310, A 27, L 309.
Comments			
Digital Levels ran by crew S5101 in December 2009 from GPS mark 040009 which was based on NGS marks Q 310, J 27, K 310, A 27, L 309.			

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 10 33.1922856
Longitude	94 12 35.9695692
Ellipsoid Height (M):	367.186
Geoid Height (M):	-28.005

Location Description
FROM THE WASHINGTON AND BENTON COUNTY LINE, GO 4.75 MILES EAST ON HWY. 412 TO THE STATION ON THE LEFT, THE STATION IS 150 FEET EAST OF A PAVED COUNTY ROAD, 7.20 FEET BACK OF A CONCRETE CURB AND 3.10 FEET SOUTH OF A WITNESS POST.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720006	Date Monumented 3/16/1991	Monumented By AHTD	County Washington	Route 412	Job Number: 012111
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	206,600.1150	
Easting (M)	201,754.1900	
Elevation (M)*	396.146	
Northing (SFT)	677,820.5440	
Easting (SFT)	661,921.8717	
Elevation (SFT)*	1,299.690	

Convergence Angle	-1	16	56.6724305
Scale Factor	0.999989087		
Elevation Adjust. Factor	0.9999378356		
Combined Adjust. Factor	0.9999269233		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	36	10	31.9082304
Longitude	94	12	13.8084516
Ellipsoid Height:			
Grid Northing (Meters)	206,600.7116		
Grid Easting (Meters)	201,754.0406		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN TELEPHONE POLE	278	21.58	70.8	
MK # 2	NBC IN SIDE OF FENCE POST	241	2.27	7.4	
MK # 3	NBC IN SIDE OF FENCE POST	93	3.99	13.1	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309, B 309, L 310, and R 310.</td> </tr> </table>	Comments	3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309, B 309, L 310, and R 310.
Comments			
3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309, B 309, L 310, and R 310.			

Location Description
FROM THE WASHINGTON AND BENTON COUNTY LINE, GO 7.70 MILES EAST ON HWY. 412 TO THE STATION ON THE RIGHT, THE STATION IS 33.60 FEET FROM BACK OF A CONCRETE CURB AND 1.90 FEET NORTH OF A WITNESS POST.

AZ Mark Station	720005
Geodetic Azimuth	274 08 58
Grid Azimuth	275 25 55

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720008	Date Monumented 5/11/1993	Monumented By AHTD	County WASHINGTON	Route 170	Job Number: 40128
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 162,413.8530		Geoid Datum:
Easting (M) 195,892.9990		Latitude 35 46 34.2899580
Elevation (M)* 		Longitude 94 15 27.7457832
Northing (SFT) 532,852.7827		Ellipsoid Height (M): 321.952
Easting (SFT) 642,692.2809		Geoid Height (M): -28.977
Elevation (SFT)* 		

Convergence Angle -1 18 49.5281842	Location Description THE STATION IS LOCATED IN DEVILS DEN STATE PARK NORTH OF ALMA ON HWY. 170 0.77 MILES NORTH OF A BRIDGE OVER LEE CREEK AT THE JCT. OF CO. RD. NO. 61, 21 FEET WEST OF THE CENTERLINE OF HWY. 170 AND 21.85 FEET NORTH OF A WITNESS POST.
Scale Factor 0.999941528	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

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

Location Reference Marks					
Description	Azimuth	Distance		AZ Mark Station	SEE NOTES
		Meters	Feet		
MK # 1 "SQUARE" CUT IN CONCRETE HEADWALL	64	30.36	99.6	Geodetic Azimuth	283 11 25.2
MK # 2 NBC IN 12" WHITE OAK	139	20.88	68.5	Grid Azimuth	284 30 14.72
MK # 3 NBC IN 24" RED OAK	222	29.35	96.3		

Area Reference Monuments (used for Processing) Ref Mon # 1 BOSTON AZ. #2 Ref Mon # 2 GRASSY ROCK RESET Ref Mon # 3 NONE	Comments AZIMUTH MARK IS VPT-616 ON JOB 40128 (DETERMINED BY SUNSHOT FROM STATION 93720008)
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720009	Date Monumented 6/28/1994	Monumented By AHTD	County WASHINGTON	Route 62	Job Number: 040397, R40081
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	182,103.2049	
Easting (M)	184,054.7940	
Elevation (M)*		
Northing (SFT)	597,450.2647	
Easting (SFT)	603,853.1033	
Elevation (SFT)*		

Convergence Angle	-1	23	34.8260336
Scale Factor	0.999956375		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	15	15.75	51.7
MK # 2	GAS METER	28	18.00	59.1
MK # 3	GUY POLE	78	4.80	15.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 GAYLOR	
Ref Mon # 2 ENES	
Ref Mon # 3 OKMU	

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 57 3.8968056

Longitude 94 23 38.0332500

Ellipsoid Height (M): 411.858

Geoid Height (M): -28.161

Location Description

FROM THE POST OFFICE IN LINCOLN, GO EAST ON HWY. 62 FOR 2.977 KM (1.85 MILES) TO THE JCT. OF HWY. 62 AND CO. RD. NO. 620 AND THE STATION ON THE LEFT. THE STATION IS 13.30 METERS NORTHWEST OF THE CENTERLINE OF HWY. 62, 9.00 METERS SOUTH OF THE CENTER OF CO. RD. NO. 620 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720009" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO (HARN) IN OCTOBER 2002.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720009A	Date Monumented 6/28/1994	Monumented By AHTD	County WASHINGTON	Route 62	Job Number: 040397, R40081
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	182,079.3179	
Easting (M)	184,489.6940	
Elevation (M)*		
Northing (SFT)	597,371.8955	
Easting (SFT)	605,279.9377	
Elevation (SFT)*		

Convergence Angle	-1	23	24.7170024
Scale Factor	0.999956361		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF 45CM METAL CULVERT	58	5.40	17.7
MK # 2	TELEPHONE JUNCTION BOX	89	24.60	80.7
MK # 3	CORNER FENCE POST	95	4.85	15.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 100%;" type="text" value="GAYLOR"/> Ref Mon # 2 <input style="width: 100%;" type="text" value="ENES"/> Ref Mon # 3 <input style="width: 100%;" type="text" value="OKMU"/>	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 57 3.4646832
Longitude	94 23 20.6607696
Ellipsoid Height (M):	413.533
Geoid Height (M):	-28.155

Location Description
<p>FROM THE POST OFFICE IN LINCOLN, GO EAST ON HWY. 62 FOR 3.460 KM (2.15 MILES) TO A DRIVEWAY AND THE STATION ON THE RIGHT. THE STATION IS 11.10 METERS SOUTH OF THE CENTERLINE OF HWY. 62, 10 METERS WEST OF THE CENTER OF A DRIVEWAY AND 0.42 METERS NORTH OF A WITNESS POST SET ALONG A WOODEN FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720009A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO (HARN) IN OCTOBER 2002.</p>

AZ Mark Station	720009
Geodetic Azimuth	271 45 13
Grid Azimuth	273 08 38

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720010	Date Monumented 6/28/1994	Monumented By AHTD	County WASHINGTON	Route 62	Job Number: 040397, 040411, R40081
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	183,013.3979	
Easting (M)	187,458.6700	
Elevation (M)*	371.036	
Northing (SFT)	600,436.4563	
Easting (SFT)	615,020.6532	
Elevation (SFT)*	1,217.307	

Convergence Angle	-1	22	16.3150904
Scale Factor	0.999957384		
Elevation Adjust. Factor	0.9999417758		
Combined Adjust. Factor	0.9998991623		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	280	4.80	15.7
MK # 2	GAS METER	85	16.20	53.1
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="GAYLOR"/> Ref Mon # 2 <input type="text" value="ENES"/> Ref Mon # 3 <input type="text" value="OKMU"/>	3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082, 040397, & 040411 by S5103, NTB, & S5101. Data compiled in 040411 in May 2006.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040006	Date Monumented 3/15/1991	Monumented By AHTD	County BENTON	Route 412	Job Number: 1634
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 206,476.5720		Geoid Datum:
Easting (M) 186,834.7750		Latitude 36 10 16.6414512
Elevation (M)* 		Longitude 94 22 10.5358656
Northing (SFT) 677,415.2200		Ellipsoid Height (M): 275.381
Easting (SFT) 612,973.7576		Geoid Height (M): -28.648
Elevation (SFT)* 		

Convergence Angle -1 22 43.9113819	Location Description FROM SILOAM SPRINGS, GO 12.0 MILES EAST ON HWY. 412 TO A LARGE BARN AND FIELD ROAD ON THE RIGHT, FOLLOW ROAD TO RIVER CROSSING, CROSS RIVER AND FOLLOW ROAD 030MILES TO THE STATION ON THE LEFT, THE STATION IS 150 FEET FROM CENTERLINE OF THE ROAD, 2.50 FEET NORTH OF A WITNESS POST.
Scale Factor 0.999988327	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN DOUBLE 14" ASH	88	16.89	55.4
MK # 2	NBC IN 36" MAPLE	267	23.65	77.6
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 SILOPORT Ref Mon # 2 DECAPORT Ref Mon # 3 BENTPORT	Comments OLD PN: 91040006
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040007	Date Monumented 3/15/1991	Monumented By AHTD	County BENTON	Route 412	Job Number: 1634
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	207,462.1770	
Easting (M)	184,464.3650	
Elevation (M)*		
Northing (SFT)	680,648.8257	
Easting (SFT)	605,196.8375	
Elevation (SFT)*		

Convergence Angle	-1	23	39.6471372
Scale Factor	0.999989832		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 SILOPORT Ref Mon # 2 DECAPORT Ref Mon # 3 BENTPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>OLD PN: 91040007</td> </tr> </table>	Comments	OLD PN: 91040007
Comments			
OLD PN: 91040007			

Location Description			
FROM SILOAM SPRINGS, GO EAST ON HWY. 412 10.47 MILES TO THE STATION ON THE LEFT, THE STATION IS 1.20 FEET SOUTH OF A WITNESS POST, 150 FEET EAST OF A PRIVATE DRIVE.			

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040008	Date Monumented 3/15/1991	Monumented By AHTD	County BENTON	Route 412	Job Number: 1634
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	206,298.8530	
Easting (M)	184,149.4250	
Elevation (M)*		
Northing (SFT)	676,832.1536	
Easting (SFT)	604,163.5719	
Elevation (SFT)*		

Convergence Angle	-1	23	46.3188533
Scale Factor	0.999987937		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TOP OF FENCE POST	138	20.62	67.7
MK # 2	NBC IN TOP OF FENCE POST	2	2.99	9.8
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SILOPORT	OLD PN: 91040008
Ref Mon # 2 DECAPORT	
Ref Mon # 3 BENTPORT	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 10 8.7675924
Longitude	94 23 57.7837860
Ellipsoid Height (M):	295.150
Geoid Height (M):	-28.663

Location Description
<p>FROM SILOAM SPRINGS, GO EAST ON HWY. 412 10.70 MILES TO A COUNTY ROAD ON THE RIGHT, GO 1.10 MILES TO A FIELD ENTRANCE AND THE STATION ON THE LEFT, THE STATION IS ON THE RIGHT SIDE OF CENTERLINE OF THE FIELD ENTRANCE, 20 FEET AND 33 FEET FROM THE CENTERLINE OF THE COUNTY ROAD.</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040009	Date Monumented 4/26/1993	Monumented By AHTD	County BENTON	Route 71	Job Number: 90072,R90014,012069,09025
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - 3 Wire Level
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 224,334.5021		Latitude 36 20 8.7067428
Easting (M) 203,976.4150		Longitude 94 11 0.6340020
Elevation (M)* 397.901		Ellipsoid Height (M): 369.876
		Geoid Height (M): -28.051

Northing (SFT) 736,004.1123		Location Description
Easting (SFT) 669,212.6215		THE STATION IS ON HWY. 71 AT THE HWY. 71B OVERPASS ON THE NORTHWEST END OF THE BRIDGE OVER HWY. 71B, 169.80 FEET NORTH OF THE BRIDGE END, 29 FEET WEST OF THE THE CENTERLINE OF THE SOUTHBOUND LANE AND 2 FEET EAST OF A WITNESS POST.
Elevation (SFT)* 1,305.449		
Convergence Angle -1 16 14.0960716		
Scale Factor 1.000021855		
Elevation Adjust. Factor 0.9999375602		
Combined Adjust. Factor 0.9999594138		

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	PUNCH POINT IN GUARD RAIL POST	18	3.98	13.1	AZ Mark Station 040009A
MK # 2	PUNCH POINT IN GUARD RAIL POST	157	2.28	7.5	Geodetic Azimuth 18 03 52
MK # 3	PUNCH POINT IN GUARD RAIL POST	183	7.74	25.4	Grid Azimuth 19 20 06

Area Reference Monuments (used for Processing) Ref Mon # 1 040044, 040044A Ref Mon # 2 ARFY Ref Mon # 3 V 26	Comments 3-wire levels ran by crew S5101 in June 07 from 1st order NGS mark R 26. Verified by crew S5101 in December 2007 from NGS marks Q 310, J 27, K 310, A 27, L 309.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040010A	Date Monumented 4/26/1993	Monumented By AHTD	County BENTON	Route 71	Job Number: R90014
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 224,386.7331		Geoid Datum:
Easting (M) 207,558.1470		Latitude 36 20 12.9538644
Elevation (M)* 		Longitude 94 8 37.0963320
Northing (SFT) 736,175.4735		Ellipsoid Height (M): 372.498
Easting (SFT) 680,963.6873		Geoid Height (M): -28.712
Elevation (SFT)* 		

Convergence Angle -1 14 50.5716266	Location Description FROM THE JCT. OF HWY. 71B AND DIXIELAND ROAD IN ROGERS, GO NORTH ON DIXIELAND ROAD 0.20 MILES TO THE STATION ON THE LEFT. THE STATION IS 27 FEET WEST OF THE CENTERLINE OF DIXIELAND ROAD AND 2 FEET EAST OF A WITNESS POST.
Scale Factor 1.000022126	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	PUNCH POINT IN CORNER POST	0	30.52	100.1	AZ Mark Station 93040010
MK # 2	PUNCH POINT IN CORNER POST	320	41.54	136.3	Geodetic Azimuth 204 56 17.51588
MK # 3	NBC POWER POLE	159	36.93	121.2	Grid Azimuth 206 11 08.05680

Area Reference Monuments (used for Processing) Ref Mon # 1 BENTPORT NGS Ref Mon # 2 ROGPORT NGS Ref Mon # 3 V 26 NGS	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040011	Date Monumented 4/26/1993	Monumented By AHTD	County BENTON	Route 72	Job Number: R90027
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	231,618.2981				
Easting (M)	194,845.3720				
Elevation (M)*	417.943				
Northing (SFT)	759,901.0330				
Easting (SFT)	639,255.1913				
Elevation (SFT)*	1,371.201				

Convergence Angle	-1	19	51.0359001
Scale Factor	1.000037079		
Elevation Adjust. Factor	0.9999344154		
Combined Adjust. Factor	0.9999714920		

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

Location Description			
<p>FROM THE JCT. OF HWY. 71B AND HWY. 72 IN BENTONVILLE, GO WEST ON HWY. 72 5.54 MILES TO THE STATION ON THE LEFT. THE STATION IS 38 FEET SOUTH OF THE CENTERLINE OF HWY. 72, 22 FEET WEST OF A DRIVEWAY AND 2.2 FEET EAST OF A WITNESS POST.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NBC IN FENCE POST	188	2.71	8.9		
MK # 2	NBC IN FENCE POST	330	32.21	105.7		
MK # 3	NBC IN FENCE POST	348	2.81	9.2		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BENTPORT Ref Mon # 2 DECAPORT Ref Mon # 3 93040009 & 9304009A	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040011A	Date Monumented 4/26/1993	Monumented By AHTD	County BENTON	Route 72	Job Number: R90027
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	232,077.2291	
Easting (M)	194,455.9900	
Elevation (M)*	418.513	
Northing (SFT)	761,406.7091	
Easting (SFT)	637,977.6939	
Elevation (SFT)*	1,373.071	

Convergence Angle	-1	20	0.3753552
Scale Factor	1.000038089		
Elevation Adjust. Factor	0.9999343260		
Combined Adjust. Factor	0.9999724125		

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

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NBC IN FENCE POST	118	17.34	56.9		93040011 *****
MK # 2	NBC IN FENCE POST	140	1.69	5.5		138 21 12.43679
MK # 3	NBC IN FENCE POST	292	3.68	12.1		139 41 12.90484

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BENTPORT Ref Mon # 2 DECAPORT Ref Mon # 3 93040009 & 9304009A	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040012	Date Monumented 4/26/1993	Monumented By AHTD	County BENTON	Route 72	Job Number: R90027
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	228,277.2071	
Easting (M)	197,391.6190	
Elevation (M)*	382.836	
Northing (SFT)	748,939.4703	
Easting (SFT)	647,609.0033	
Elevation (SFT)*	1,256.021	

Convergence Angle	-1	18	49.8047655
Scale Factor	1.000029863		
Elevation Adjust. Factor	0.9999399242		
Combined Adjust. Factor	0.9999697854		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	114	17.79	58.4
MK # 2	CENTER OF TOP OF TELEPHONE BOX	119	15.59	51.1
MK # 3	NBC IN 30" OAK TREE	238	28.87	94.7

Area Reference Monuments (used for Processing) Ref Mon # 1 BENTPORT Ref Mon # 2 DECAPORT Ref Mon # 3 93040009 & 9304009A	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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Location Description			
FROM THE JCT. OF HWY. 71B AND HWY. 72 IN BENTONVILLE, GO WEST ON HWY. 72 1.12 MILES TO THE STATION ON THE LEFT. THE STATION IS 57 FEET SOUTH OF THE CENTERLINE OF HWY. 72, 66 FEET WEST OF THE CENTERLINE OF MEMORIAL ROAD AND 2 FEET NORTH OF A WITNESS POST.			

AZ Mark Station	9304012A AZ. MK. **
Geodetic Azimuth	274 00 04.04965
Grid Azimuth	275 18 53.79822

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040012A	Date Monumented 4/26/1993	Monumented By AHTD	County BENTON	Route 72	Job Number: R90027
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Geoid Datum:		
Northing (M) 228,300.6481		Latitude 36 22 12.3373848
Easting (M) 197,139.6560		Longitude 94 15 38.3473512
Elevation (M)* 381.635		Ellipsoid Height (M): 352.881
Northing (SFT) 749,016.3763		Geoid Height (M): -28.754
Easting (SFT) 646,782.3547		
Elevation (SFT)* 1,252.081		

Convergence Angle -1 18 55.6972273	Location Description FROM THE JCT. OF HWY. 71B AND HWY. 72 IN BENTONVILLE, GO WEST ON HWY. 72 2.27 MILES TO THE STATION ON THE RIGHT. THE STATION IS 23 FEET NORTH OF THE CENTERLINE OF HWY. 72 AND 3 FEET SOUTH OF A WITNESS POST.
Scale Factor 1.000029901	
Elevation Adjust. Factor 0.9999401126	
Combined Adjust. Factor 0.9999700118	

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN FENCE POST	86	21.63	71.0	AZ Mark Station 93040012 ****
MK # 2	NBC IN FENCE POST	180	13.85	45.4	Geodetic Azimuth 93 59 58.044787
MK # 3	NBC IN POWER POLE	248	37.00	121.4	Grid Azimuth 95 18 53.798217

Area Reference Monuments (used for Processing) Ref Mon # 1 BENTPORT Ref Mon # 2 DECAPORT Ref Mon # 3 93040009 & 9304009A	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040013A	Date Monumented 4/26/1993	Monumented By AHTD	County BENTON	Route 72	Job Number: 090178,R90027
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	229,336.2011	
Easting (M)	200,685.0120	
Elevation (M)*	386.188	
Northing (SFT)	752,413.8531	
Easting (SFT)	658,414.0769	
Elevation (SFT)*	1,267.018	

Convergence Angle	-1	17	33.5058799
Scale Factor	1.000032326		
Elevation Adjust. Factor	0.9999393982		
Combined Adjust. Factor	0.9999717222		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	36	22	48.5562540
Longitude	94	13	17.1025464
Ellipsoid Height:	357.634		
Grid Northing (Meters)	229,336.6725		
Grid Easting (Meters)	200,684.9747		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN POWER POLE	196		20.61	67.6
MK # 2	NBC IN POWER POLE	240		38.45	126.2
MK # 3	NBC IN POWER POLE	347		21.86	71.7

Area Reference Monuments (used for Processing) Ref Mon # 1 BENTPORT, BENTPORT AZ Ref Mon # 2 V 26 Ref Mon # 3 OKMU, CNWM CORS	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description
FROM THE JCT. OF HWY. 71B AND HWY. 72 IN BENTONVILLE, GO NORTH ON HWY. 71B 0.75 MILES TO THE STATION ON THE LEFT. THE STATION IS 44 FEET WEST OF THE CENTERLINE OF HWY. 71B, 81 FEET NORTH OF NORTHWEST 7TH STREET AND 2 FEET EAST OF A WITNESS POST. THE STATION MARK IS STAMPED "9304013A"

AZ Mark Station	040045
Geodetic Azimuth	176 38 23
Grid Azimuth	177 55 57

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040014	Date Monumented 5/17/1995	Monumented By AHTD	County BENTON	Route N/A	Job Number: 9623
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	227,617.8611	
Easting (M)	181,298.0440	
Elevation (M)*	355.485	
Northing (SFT)	746,776.2660	
Easting (SFT)	594,808.6660	
Elevation (SFT)*	1,166.287	

Convergence Angle	-1	25	4.9736468
Scale Factor	1.000027626		
Elevation Adjust. Factor	0.9999442159		
Combined Adjust. Factor	0.9999718404		

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

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	3' IRON GATE POST	210		16.90	55.4
MK # 2	3' IRON GATE POST	232		23.85	78.2
MK # 3	NONE				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BENTPORT 1990 Ref Mon # 2 DECAPORT 1990 Ref Mon # 3 NONE	REPORTED DESTROYED BY S5112 IN JUNE 2019. REPLACED WITH GPS #040127 BY S5512 IN JUNE 2019 FOR JOB #090558.

Location Description	
FROM THE POST OFFICE IN DECATUR, GO NORTH ON HWY. 59 FOR 3.46 KM (2.15 MILES) TO A GRAVEL ROAD (CO. RD. NO. 48) ON THE RIGHT (BETHLEHEM ROAD). TURN RIGHT AND EAST ON THE GRAVEL ROAD AND GO 0.37 KM (0.23 MILES) TO THE STATION ON THE LEFT. THE STATION IS 6.0 METERS NORTH OF THE CENTER OF THE GRAVEL ROAD AND 1.17 METERS SOUTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "040014" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040014A	Date Monumented 5/17/1995	Monumented By AHTD	County BENTON	Route N/A	Job Number: 9623, 090558
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	227,578.0732 0.0020
Easting (M)	181,870.8084 0.0020
Elevation (M)*	

Northing (SFT)	746,645.7285	
Easting (SFT)	596,687.8106	
Elevation (SFT)*		

Convergence Angle	-1	24	51.5866128
Scale Factor	1.000027571		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	36	21	37.1213748
Longitude	94	25	49.9504296
Ellipsoid Height:	331.294		
Grid Northing (Meters)	227,578.6221		
Grid Easting (Meters)	181,870.7400		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	264	10.80	35.4
MK # 2	POWER POLE	15	17.50	57.4
MK # 3	POWER POLE	93	8.50	27.9

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFS (BENTPORT 1990) Ref Mon # 2 ARHR (DECAPORT 1990) Ref Mon # 3 ARRV, CTA1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>PREVIOUS ELEV. WAS 360.069m</td> </tr> </table>	Comments	PREVIOUS ELEV. WAS 360.069m
Comments			
PREVIOUS ELEV. WAS 360.069m			

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	36 21 37.1036268
Longitude	94 25 49.9471428
Ellipsoid Height (M):	332.035 0.0170
Geoid Height (M):	-28.106 0.0170

Location Description
FROM THE POST OFFICE IN DECATUR, GO NORTH ON HWY. 59 FOR 3.46 KM (2.15 MILES) TO A GRAVEL ROAD (CO. RD. NO. 48) ON THE RIGHT (BETHLEHEM ROAD), TURN RIGHT AND EAST ON THE GRAVEL ROAD AND GO 0.96 KM (0.60 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 8.30 METERS SOUTH OF THE CENTER OF THE GRAVEL ROAD AND 1.00 METER NORTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED"040014A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040015	Date Monumented 5/17/1995	Monumented By AHTD	County BENTON	Route N/A	Job Number: 9623
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 227,341.1281		Latitude 36 21 33.4492020
Easting (M) 186,963.3980		Longitude 94 22 25.5160344
Elevation (M)* 401.344		Ellipsoid Height (M): 372.586
		Geoid Height (M): -28.758

Northing (SFT) 745,868.3511	Easting (SFT) 613,395.7483	Location Description
Elevation (SFT)* 1,316.743		<p>FROM THE JCT. OF HWY. 102 AND MAIN STREET IN THE SMALL TOWN OF CENTERTON, GO WEST ON HWY. 102 FOR 5.18 KM (3.22 MILES) TO A CURVE LEFT AND A GRAVEL ROAD STRAIGHT AHEAD, GO STRAIGHT AHEAD ON THE GRAVEL ROAD (CO. RD. NO. 538) (REBEL ROAD) FOR 0.21 KM (0.13 MILES) TO A "T" JUNCTION, TURN RIGHT ON "REBEL ROAD" AND GO 0.42 KM (0.26 MILES) TO A "Y" JCT. WITH COUNTY ROAD NO. 535 (SHIPE ROAD), GO LEFT ON "SHIPE ROAD" FOR 1.609 KM (1.00 MILES) TO THE JCT. WITH COUNTY ROAD NO. 518 (NORTH SPRING VALLEY ROAD), CONTINUE AHEAD ON "SHIPE ROAD" FOR 1.496 KM (0.93 MILES) TO THE STATION ON THE LEFT. THE STATION IS 13.3 METERS NORTHEAST OF THE CENTER OF "SHIPE ROAD", 19.0 METERS NORTH OF THE CENTER OF A DRIVEWAY AND 1.0 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "040015" SET ON TOP OF A 3/4 REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>
Convergence Angle -1 22 52.6283291		
Scale Factor 1.000027331		
Elevation Adjust. Factor 0.9999370200		
Combined Adjust. Factor 0.9999643493		

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	335	9.90	32.5	AZ Mark Station 040015A
MK # 2	TELEPHONE JUNCTION BOX	225	33.00	108.3	Geodetic Azimuth 232 32 18.62349
MK # 3	POWER POLE	75	1.20	3.9	Grid Azimuth 233 55 11.17152

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 BENTPORT 1990</p> <p>Ref Mon # 2 DECAPORT 1990</p> <p>Ref Mon # 3 NONE</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040015A	Date Monumented 5/17/1995	Monumented By AHTD	County BENTON	Route N/A	Job Number: 9623
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	227,069.4671	
Easting (M)	186,590.5880	
Elevation (M)*	393.196	
Northing (SFT)	744,977.0766	
Easting (SFT)	612,172.6208	
Elevation (SFT)*	1,290.011	

Convergence Angle	-1	23	1.1738515
Scale Factor	1.000026735		
Elevation Adjust. Factor	0.9999382985		
Combined Adjust. Factor	0.9999650319		

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

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	R/R CROSS TIE FENCE POST		290	12.10	39.7
MK # 2	R/R CROSS TIE FENCE POST		325	10.70	35.1
MK # 3	R/R CROSS TIE FENCE POST		0	14.10	46.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 100%;" type="text" value="BENTPORT 1990"/> Ref Mon # 2 <input style="width: 100%;" type="text" value="DECAPORT 1990"/> Ref Mon # 3 <input style="width: 100%;" type="text" value="NONE"/>	

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

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	36 21 24.3468540
Longitude	94 22 40.2016080
Ellipsoid Height (M):	364.439
Geoid Height (M):	-28.757

Location Description
<p>FROM THE JCT. OF HWY. 102 AND MAIN STREET IN THE SMALL TOWN OF CENTERTON, GO WEST ON HWY. 102 FOR 5.18 KM (3.22 MILES) TO A CURVE LEFT AND A GRAVEL ROAD STRAIGHT AHEAD, GO STRAIGHT AHEAD ON THE GRAVEL ROAD (CO. RD. NO. 538) (REBEL ROAD) FOR 0.21 KM (0.13 MILES) TO A "T" JUNCTION, TURN RIGHT ON "REBEL ROAD" AND GO 0.42 KM (0.26 MILES) TO A "Y" JCT. WITH COUNTY ROAD NO. 535 (SHIPE ROAD), GO LEFT ON "SHIPE ROAD" FOR 1.609 KM (1.00 MILES) TO THE JCT. WITH COUNTY ROAD NO. 518 (NORTH SPRING VALLEY ROAD), CONTINUE AHEAD ON "SHIPE ROAD" FOR 2.22 KM (1.38 MILES) TO THE STATION ON THE LEFT. THE STATION IS 4.30 METERS SOUTH OF THE CENTER OF "SHIPE ROAD" AND 1.03 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "040015A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

AZ Mark Station	040015
Geodetic Azimuth	52 32 09.917443
Grid Azimuth	53 55 11.171516

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040016	Date Monumented 5/17/1995	Monumented By AHTD	County BENTON	Route 102	Job Number: 090174,9623
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	227,282.7330	
Easting (M)	190,396.4870	
Elevation (M)*		
Northing (SFT)	745,676.7665	
Easting (SFT)	624,659.1411	
Elevation (SFT)*		

Convergence Angle	-1	21	32.4923015
Scale Factor	1.000027382		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	36	21	34.2349632
Longitude	94	20	7.8038376
Ellipsoid Height:	392.171		
Grid Northing (Meters)	227,283.2433		
Grid Easting (Meters)	190,396.4382		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	POWER POLE	270		10.20	33.5
MK # 2	8" WOODEN FENCE CORNER POST	305		1.35	4.4
MK # 3	NONE				

Area Reference Monuments (used for Processing) Ref Mon # 1 BENTPORT,BENTPORTAZ Ref Mon # 2 V26 Ref Mon # 3 OKMU	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description	
FROM THE JCT. OF HWY. 102 AND MAIN STREET IN THE SMALL TOWN OF CENTERTON, GO WEST ON HWY. 102 FOR 4.58 KM (2.85 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 13.4 METERS NORTH OF THE CENTERLINE OF HWY. 102 AND 0.70 METERS SOUTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "040016" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.	

AZ Mark Station	040016A
Geodetic Azimuth	93 49 05
Grid Azimuth	95 10 38

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040016A	Date Monumented 5/17/1995	Monumented By AHTD	County BENTON	Route 102	Job Number: 090174,9623
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	227,227.6881	
Easting (M)	191,004.0070	
Elevation (M)*		
Northing (SFT)	745,496.1734	
Easting (SFT)	626,652.3130	
Elevation (SFT)*		

Convergence Angle	-1	21	18.2866933
Scale Factor	1.000027295		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	36	21	32.9158080
Longitude	94	19	43.3911180
Ellipsoid Height:	381.813		
Grid Northing (Meters)	227,228.1775		
Grid Easting (Meters)	191,003.9634		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	93	11.45	37.6
MK # 2	4" WOODEN FENCE POST	135	0.80	2.6
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 BENTPORT,BENTPORTAZ Ref Mon # 2 V26 Ref Mon # 3 OKMU	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description
FROM THE JCT. OF HWY. 102 AND MAIN STREET IN THE SMALL TOWN OF CENTERTON, GO WEST ON HWY. 102 FOR 3.99 KM (2.48 MILES) TO THE STATION ON THE LEFT. THE STATION IS 12.5 METERS SOUTH OF THE CENTER OF HWY. 102, 19.5 METERS WEST OF A DRIVEWAY AND 0.50 METERS NORTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "040016A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

AZ Mark Station	040016
Geodetic Azimuth	273 49 20
Grid Azimuth	275 10 38

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040017A	Date Monumented 7/23/1996	Monumented By AHTD	County BENTON	Route 59	Job Number: 090196, 001742, 090506
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	200,661.6200
Easting (M)	172,080.6090
Elevation (M)*	327.987
Northing (SFT)	658,337.3316
Easting (SFT)	564,567.7980
Elevation (SFT)*	1,076.071

Convergence Angle	-1 28 23.8591992
Scale Factor	0.999978847
Elevation Adjust. Factor	0.9999485308
Combined Adjust. Factor	0.9999273789

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	36	6	56.1393864
Longitude	94	31	54.7438872
Ellipsoid Height:	298.965		
Grid Northing (Meters)	200,662.0556		
Grid Easting (Meters)	172,080.5204		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	165	18.69	61.3
MK # 2	0.70 METER PINE TREE	250	23.80	78.1
MK # 3	POWER POLE	25	27.96	91.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 100%;" type="text" value="SAL1"/> Ref Mon # 2 <input style="width: 100%;" type="text" value="NDS1"/> Ref Mon # 3 <input style="width: 100%;" type="text" value="040038"/>	3-wire elevations based on AHTD GPS# 040057 in Job 090196 ran by S5101 in Sep 05 which is based on NGS K31 in Job 090024 by S5112 in July 05.

Location Description	
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 IN SILOAM SPRINGS GO SOUTH ON HWY-59 FOR 7.32 KM. (4.55 MI.) TO THE STATION ON THE LEFT ON TOP OF A HIGH BANK NEAR A POWER TRANSMISSION LINE. 14.36 METERS EAST OF THE CENTER OF HWY-59 AND 1.0 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040017A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 6 56.1253320
Longitude	94 31 54.7398984
Ellipsoid Height (M):	299.675
Geoid Height (M):	-28.292

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040018	Date Monumented 9/3/1997	Monumented By AHTD	County BENTON	Route I-540	Job Number: 090180,012069,9985,012111
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	221,975.7130	
Easting (M)	203,783.6220	
Elevation (M)*	374.814	
Northing (SFT)	728,265.3184	
Easting (SFT)	668,580.0998	
Elevation (SFT)*	1,229.703	

Convergence Angle	-1	16	17.3720550
Scale Factor	1.000017049		
Elevation Adjust. Factor	0.9999411829		
Combined Adjust. Factor	0.9999582309		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	36	18	52.0780104
Longitude	94	11	6.2667348
Ellipsoid Height:	346.247		
Grid Northing (Meters)	221,976.1787		
Grid Easting (Meters)	203,783.5595		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH IN TOP OF GUARD RAIL	17	3.05	10.0
MK # 2	PUNCH IN TOP OF GUARD RAIL	148	6.89	22.6
MK # 3	"X" IN SOUTHEAST CORNER OF BRIDGE	270	11.33	37.2

Area Reference Monuments (used for Processing) Ref Mon # 1 BENTPORT, BENTPORTAZ Ref Mon # 2 OKMU, CNWM Ref Mon # 3 V 26	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital Levels were ran by crew S5101 in Dec. 09 from AHTD BM 920 in Job 012111. BM 920 was est. from NGS mark J 26. The crew hammered the pt. down 2 tenths to prevent mower disturbance. The previous elev. was 1229.8975.</td> </tr> </table>	Comments	Digital Levels were ran by crew S5101 in Dec. 09 from AHTD BM 920 in Job 012111. BM 920 was est. from NGS mark J 26. The crew hammered the pt. down 2 tenths to prevent mower disturbance. The previous elev. was 1229.8975.
Comments			
Digital Levels were ran by crew S5101 in Dec. 09 from AHTD BM 920 in Job 012111. BM 920 was est. from NGS mark J 26. The crew hammered the pt. down 2 tenths to prevent mower disturbance. The previous elev. was 1229.8975.			

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 18 52.0629516
Longitude	94 11 6.2638152
Ellipsoid Height (M):	346.875
Geoid Height (M):	-28.043

Location Description
THE STATION IS LOCATED ABOUT 3.22 KM (2.00 MI) WEST OF ROGERS AT THE JUNCTION OF STATE HIGHWAY 94 AND U.S. HIGHWAY 71 SET IN THE MEDIAN. THE STATION IS 25.20 METERS SOUTH-SOUTHEAST OF THE CENTER OF STATE HIGHWAY 94, 17.38 METERS EAST-NORTHEAST OF THE CENTER OF U.S. HIGHWAY 71 SOUTH BOUND LANE, 7.90 METERS WEST-SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 71 NORTH BOUND LANE, 2.70 METERS SOUTH OF THE SOUTHWEST CORNER OF A BRIDGE IN THE NORTH BOUND LANE AND 1.92 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 040018 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040020	Date Monumented 7/6/1998	Monumented By AHTD	County BENTON	Route 12	Job Number: 090057
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	222,147.3680	
Easting (M)	196,572.7940	
Elevation (M)*	377.292	
Northing (SFT)	728,828.4898	
Easting (SFT)	644,922.5750	
Elevation (SFT)*	1,237.832	

Convergence Angle	-1	19	5.6213976
Scale Factor	1.000017066		
Elevation Adjust. Factor	0.9999407941		
Combined Adjust. Factor	0.9999578591		

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

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	POWER POLE	2	22.53	73.9		
MK # 2	WOODEN CORNER POST	266	34.48	113.1		
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="FLINT"/> Ref Mon # 2 <input type="text" value="CASSPORT"/> Ref Mon # 3 <input type="text" value="V 26"/>	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040020A	Date Monumented 7/6/1998	Monumented By AHTD	County BENTON	Route 12	Job Number: 090057
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	222,185.3740	
Easting (M)	196,137.7160	
Elevation (M)*	375.253	
Northing (SFT)	728,953.1812	
Easting (SFT)	643,495.1566	
Elevation (SFT)*	1,231.143	

Convergence Angle	-1	19	15.7878964
Scale Factor	1.000017122		
Elevation Adjust. Factor	0.9999411140		
Combined Adjust. Factor	0.9999582350		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	272	26.75	87.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	FLINT
Ref Mon # 2	CASSPORT
Ref Mon # 3	V 26

Comments

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 18 53.2516140
Longitude	94 16 12.8733852
Ellipsoid Height (M):	347.218
Geoid Height (M):	-28.035

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 12 ON THE SOUTH SIDE OF BENTONVILLE GO WEST ON STATE HIGHWAY 12 FOR 7.48 KM. (4.65 MI.) TO THE STATION ON THE RIGHT. 10.65 METERS NORTH OF THE CENTER OF HWY-12, 0.85 METERS SOUTH OF A WITNESS POST SET NEAR A BARBWIRE FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040020A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040022	Date Monumented 12/1/1998	Monumented By AHTD	County BENTON	Route 412	Job Number: 090024,090137
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	207,494.8180	
Easting (M)	169,737.9780	
Elevation (M)*	355.195	
Northing (SFT)	680,755.9154	
Easting (SFT)	556,882.0162	
Elevation (SFT)*	1,165.336	

Convergence Angle	-1	29	22.4827206
Scale Factor	0.999989282		
Elevation Adjust. Factor	0.9999442614		
Combined Adjust. Factor	0.9999335440		

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

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	WEST END CMP	118	5.00	16.4		OK 1
MK # 2	FIRE HYDRANT	270	18.55	60.9		263 22 05.67178
MK # 3	GUY POLE	336	20.30	66.6		264 51 28.06079

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 OLD MAIN	
Ref Mon # 2 FLINT	
Ref Mon # 3 V 26	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040022A	Date Monumented 11/5/2002	Monumented By AHTD	County BENTON	Route 412	Job Number: 090137,090137
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	207,466.9200	
Easting (M)	169,330.5230	
Elevation (M)*		
Northing (SFT)	680,664.3867	
Easting (SFT)	555,545.2242	
Elevation (SFT)*		

Convergence Angle	-1	29	31.9505788
Scale Factor	0.999989219		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORRIGATED METAL PIPE	76	8.66	28.4
MK # 2	MAN HOLE COVER	85	10.15	33.3
MK # 3	LIGHT POLE	270	10.90	35.8

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>SILOAM</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ENES</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SALLISAW</td> </tr> </table>	Ref Mon # 1	SILOAM	Ref Mon # 2	ENES	Ref Mon # 3	SALLISAW	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	SILOAM						
Ref Mon # 2	ENES						
Ref Mon # 3	SALLISAW						

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 36 10 34.5347832

Longitude 94 33 51.7556772

Ellipsoid Height (M): 323.958

Geoid Height (M): -28.290

Location Description

TO REACH THE STATION FROM THE ARKANSAS AND OKLAHOMA STATE LINE, LOCATED ON THE WEST SIDE OF SILOAM SPRINGS, GO EAST ON U.S. HIGHWAY 412 FOR 0.04 MILES TO THE STATION ON THE RIGHT. THE STATION IS 6.75 METERS SOUTH OF THE SOUTH EDGE OF THE EAST BOUND LANES OF U.S. HIGHWAY 412, 2.36 METERS NORTH OF THE BACK OF A CONCRETE CURB, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040022A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040023	Date Monumented 4/12/1999	Monumented By AHTD	County BENTON	Route 62	Job Number: 090064,090065,012153
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	232,395.9501	
Easting (M)	214,267.9240	
Elevation (M)*	408.524	
Northing (SFT)	762,452.3796	
Easting (SFT)	702,977.3473	
Elevation (SFT)*	1,340.300	

Convergence Angle	-1	12	17.9779719
Scale Factor	1.000039802		
Elevation Adjust. Factor	0.9999358934		
Combined Adjust. Factor	0.9999756928		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NGS BENCH MARK P 309	233	37.01	121.4
MK # 2	NONE			
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>CASSPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>V 26</td> </tr> <tr> <td>Ref Mon # 3</td> <td>FLINT</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	CASSPORT	Ref Mon # 2	V 26	Ref Mon # 3	FLINT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital Levels ran by Crew S5101 in Feb 2009 from 1st order NGS marks V309,W309,X309,Y309,U309,T309,S309,R309 & Q309.</td> </tr> </table>	Comments	Digital Levels ran by Crew S5101 in Feb 2009 from 1st order NGS marks V309,W309,X309,Y309,U309,T309,S309,R309 & Q309.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	CASSPORT										
Ref Mon # 2	V 26										
Ref Mon # 3	FLINT										
Comments											
Digital Levels ran by Crew S5101 in Feb 2009 from 1st order NGS marks V309,W309,X309,Y309,U309,T309,S309,R309 & Q309.											

Location Description	
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 62, 62B AND STATE HIGHWAY 94, LOCATED ON THE NORTH SIDE OF RODGERS GO NORTHEAST ON U.S. HIGHWAY 62 FOR 7.56 KM (4.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.75 METERS EAST OF THE CENTER OF ANDY JACK ROAD, 14.49 METERS WEST OF THE CENTER OF U.S. HIGHWAY 62 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040023 1999" SET ON TOP OF AN IRON ROD 0.80 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>	

AZ Mark Station	040023A
Geodetic Azimuth	186 43 14.21095
Grid Azimuth	187 55 32.17297

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040023A	Date Monumented 4/12/1999	Monumented By AHTD	County BENTON	Route 62	Job Number: 090064,090065,012153
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	231,817.8521	
Easting (M)	214,187.4430	
Elevation (M)*	415.279	
Northing (SFT)	760,555.7364	
Easting (SFT)	702,713.3026	
Elevation (SFT)*	1,362.461	

Convergence Angle	-1	12	19.5731147
Scale Factor	1.000038490		
Elevation Adjust. Factor	0.9999348335		
Combined Adjust. Factor	0.9999733210		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	56	1.30	4.3
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	CASSPORT
Ref Mon # 2	V 26
Ref Mon # 3	FLINT

Comments
Digital Levels ran by Crew S5101 in Feb 2009 from 1st order NGS marks V309,W309,X309,Y309,U309,T309,S309,R309 & Q309.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040024A	Date Monumented 9/28/1999	Monumented By AHTD	County BENTON	Route 62	Job Number: 090065
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	234,847.3041	
Easting (M)	216,713.1390	
Elevation (M)*	423.382	
Northing (SFT)	770,494.8635	
Easting (SFT)	710,999.6902	
Elevation (SFT)*	1,389.047	

Convergence Angle	-1	11	22.0722143
Scale Factor	1.000045559		
Elevation Adjust. Factor	0.9999335619		
Combined Adjust. Factor	0.9999791179		

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	R/W SIGN	227	6.95	22.8	
MK # 2	PG	99	29.51	96.8	
MK # 3	NONE				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CONWAY CORS ARP	Digital Levels ran by Crew S5101 in Feb 2009 from 1st order NGS marks V309,W309,X309,Y309,U309,T309,S309,R309 & Q309.
Ref Mon # 2 SALLISAW 1 CORS ARP	
Ref Mon # 3 NEODESHA CORS ARP	

AZ Mark Station	040024
Geodetic Azimuth	48 16 29.098081
Grid Azimuth	49 27 51.257341

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040025	Date Monumented 9/28/1999	Monumented By AHTD	County BENTON	Route 62	Job Number: 090065,090096
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	236,043.9541	
Easting (M)	221,545.3380	
Elevation (M)*	478.305	
Northing (SFT)	774,420.8727	
Easting (SFT)	726,853.3298	
Elevation (SFT)*	1,569.239	

Convergence Angle	-1	9	29.7753546
Scale Factor	1.000048601		
Elevation Adjust. Factor	0.9999249440		
Combined Adjust. Factor	0.9999735413		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE R/W MARKER	119	9.94	32.6
MK # 2	FLAG POLE	58	21.98	72.1
MK # 3	NORTHEAST END OF CMP	265	17.30	56.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CONWAY CORS ARP	Digital Levels ran by Crew S5101 in Feb 2009 from 1st order NGS marks V309, W309, X309, Y309, U309, T309, S309, R309 & Q309.
Ref Mon # 2 SALLISAW 1 CORS ARP	
Ref Mon # 3 NEODESHA CORS ARP	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040025A	Date Monumented 9/28/1999	Monumented By AHTD	County BENTON	Route 62	Job Number: 090065,090096
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	236,304.2381	
Easting (M)	221,023.0840	
Elevation (M)*	462.897	
Northing (SFT)	775,274.8212	
Easting (SFT)	725,139.9014	
Elevation (SFT)*	1,518.689	

Convergence Angle	-1	9	42.0983079
Scale Factor	1.000049192		
Elevation Adjust. Factor	0.9999273616		
Combined Adjust. Factor	0.9999765500		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE R/W MARKER	183	0.58	1.9
MK # 2	TELEPHONE JUNCTION MARK	272	33.15	108.8
MK # 3	WEST GATE POST	230	8.90	29.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CONWAY CORS ARP Ref Mon # 2 SALLISAW 1 CORS ARP Ref Mon # 3 NEODESHA CORS ARP	Digital Levels ran by Crew S5101 in Feb 2009 from 1st order NGS marks V309,W309,X309,Y309,U309,T309,S309,R309 & Q309.

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

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 26 48.6686076
Longitude	93 59 46.9815684
Ellipsoid Height (M):	434.760
Geoid Height (M):	-28.137

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 127, LOCATED IN GARFIELD, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 2.49 KM (1.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.27 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 62, 4.35 METERS EAST OF THE CENTER OF A PASTURE ENTRANCE AND 0.76 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040025A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 583.531 METERS.

AZ Mark Station	040025
Geodetic Azimuth	115 19 45.63189
Grid Azimuth	116 29 27.85903

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040026A	Date Monumented 1/22/2001	Monumented By AHTD	County BENTON	Route 71	Job Number: 009969,090298
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	233,392.5831	
Easting (M)	200,728.0564	
Elevation (M)*	317.176	0.0044
Northing (SFT)	765,722.1664	
Easting (SFT)	658,555.2984	
Elevation (SFT)*	1,040.603	

Convergence Angle	-1	17	34.6380534
Scale Factor	1.000041400		
Elevation Adjust. Factor	0.9999502272		
Combined Adjust. Factor	0.9999916251		

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

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71B AND STATE HIGHWAY 340, LOCATED IN BELLA VISTA, GO SOUTH ON U.S. HIGHWAY 71 FOR 7.24 KM (4.50 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.10 METERS EAST OF THE CENTER OF THE NORTH BOUND LANE OF U.S. HIGHWAY 71B AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED 040026A SET ON TOP OF AN IRON ROD 0.75 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 598.961 METERS.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 V 26</p> <p>Ref Mon # 2 CASSPORT</p> <p>Ref Mon # 3 FLINT</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040027	Date Monumented 1/22/2001	Monumented By AHTD	County BENTON	Route CR 39	Job Number: 009969.090298
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	233,428.7775	
Easting (M)	196,943.7890	
Elevation (M)*	404.819	
Northing (SFT)	765,840.9142	
Easting (SFT)	646,139.7477	
Elevation (SFT)*	1,328.145	

Convergence Angle	-1	19	3.0203790
Scale Factor	1.000041285		
Elevation Adjust. Factor	0.9999364747		
Combined Adjust. Factor	0.9999777570		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	283	14.40	47.2
MK # 2	TELEPHONE JUNCTION BOX	253	18.80	61.7
MK # 3	BASE OF AN OLD HAND PUMP	85	6.15	20.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 100%;" type="text" value="V 26"/> Ref Mon # 2 <input style="width: 100%;" type="text" value="CASSPORT"/> Ref Mon # 3 <input style="width: 100%;" type="text" value="FLINT"/>	

<p>Vertical Determined By: LEVEL - Unkown Quality</p> <p>Elevation Datum: NAVD 88</p> <p>Geoid Datum:</p> <p>Latitude <input style="width: 30px;" type="text" value="36"/> <input style="width: 30px;" type="text" value="24"/> <input style="width: 100px;" type="text" value="58.5097848"/></p> <p>Longitude <input style="width: 30px;" type="text" value="94"/> <input style="width: 30px;" type="text" value="15"/> <input style="width: 100px;" type="text" value="50.9322672"/></p> <p>Ellipsoid Height (M): <input style="width: 60px;" type="text" value="376.885"/> <input style="width: 40px;" type="text"/></p> <p>Geoid Height (M): <input style="width: 60px;" type="text" value="-28.072"/> <input style="width: 40px;" type="text"/></p>	
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Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO SOUTH ON STATE HIGHWAY 72 FOR 5.71 KM (3.55 MI) TO THE JUNCTION OF SHORT ROAD (OLD COUNTY ROAD 452) ON THE LEFT GO LEFT, EAST ON SHORT ROAD FOR 3.07 KM (1.91 MI) TO THE JUNCTION OF PUNKIN HOLLOW ROAD (OLD COUNTY ROAD 39) ON THE LEFT, GO LEFT NORTH ON PUNKIN HOLLOW ROAD FOR 0.94 KM (0.59 MI) TO THE MILLER COMMUNITY CHURCH AND THE STATION ON THE RIGHT. THE STATION IS 11.00 METERS SOUTH-SOUTHEAST OF THE CENTER OF MILLER CHURCH ROAD, 9.15 METERS NORTH-NORTHEAST OF THE CENTER OF PUNKIN HOLLOW ROAD AND 0.50 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040027 2001" SET ON TOP OF AN IRON ROD 0.75 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040028	Date Monumented 1/22/2001	Monumented By AHTD	County BENTON	Route N/A	Job Number: 009969
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	232,527.7112	
Easting (M)	195,673.6084	
Elevation (M)*	414.033	
Northing (SFT)	762,884.6658	
Easting (SFT)	641,972.4969	
Elevation (SFT)*	1,358.373	

Convergence Angle	-1	19	32.1920444
Scale Factor	1.000039169		
Elevation Adjust. Factor	0.9999350290		
Combined Adjust. Factor	0.9999741954		

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

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO SOUTH ON STATE HIGHWAY 72 FOR 5.23 KM (3.25 MI) TO THE JUNCTION OF LITTLE ROAD (OLD COUNTY ROAD 457) ON THE LEFT, GO LEFT NORTHEAST ON LITTLE ROAD FOR 0.64 KM (0.40 MI) TO THE JUNCTION OF MILLER CHURCH ROAD (OLD COUNTY ROAD 49) ON THE RIGHT, GO RIGHT NORTHEAST ON MILLER CHURCH ROAD FOR 0.80 KM (0.50 MI) TO THE STATION ON THE RIGHT. THE STATION IS 5.40 METERS SOUTH OF THE CENTER OF MILLER CHURCH ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040028 2001" SET ON TOP OF AN IRON ROD 0.75 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station
MK # 2	NONE				Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 V 26 Ref Mon # 2 CASSPORT Ref Mon # 3 FLINT	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040029	Date Monumented 1/22/2001	Monumented By AHTD	County BENTON	Route 72	Job Number: 009969,090298
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	233,762.3220	
Easting (M)	192,569.4878	
Elevation (M)*	414.549	0.0008
Northing (SFT)	766,935.2181	
Easting (SFT)	631,788.3946	
Elevation (SFT)*	1,360.065	

Convergence Angle	-1	20	45.3418224
Scale Factor	1.000041816		
Elevation Adjust. Factor	0.9999349480		
Combined Adjust. Factor	0.9999767613		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	257	9.90	32.5
MK # 2	WOODEN GATE POST	90	23.80	78.1
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 V 26 Ref Mon # 2 CASSPORT Ref Mon # 3 FLINT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">AZ Mark Station</th> <td style="text-align: center;">040029A</td> </tr> <tr> <th style="text-align: center;">Geodetic Azimuth</th> <td style="text-align: center;">91 05 38.281797</td> </tr> <tr> <th style="text-align: center;">Grid Azimuth</th> <td style="text-align: center;">92 26 23.744500</td> </tr> </table> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>	AZ Mark Station	040029A	Geodetic Azimuth	91 05 38.281797	Grid Azimuth	92 26 23.744500
AZ Mark Station	040029A						
Geodetic Azimuth	91 05 38.281797						
Grid Azimuth	92 26 23.744500						

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 25 6.0293136
Longitude	94 18 46.7727840
Ellipsoid Height (M):	386.637
Geoid Height (M):	-28.053

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO SOUTH ON STATE HIGHWAY 72 FOR 1.90 KM (1.18 MI) TO THE STATION ON THE RIGHT. THE STATION IS 25.60 METERS WEST OF THE CENTER OF A PASTURE ENTRANCE, 10.40 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 72 AND 1.80 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040029 2001" SET ON TOP OF AN IRON 0.63 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 511.535 METERS.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040029A	Date Monumented 1/22/2001	Monumented By AHTD	County BENTON	Route 72	Job Number: 009969,090298
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	233,740.5451	
Easting (M)	193,080.5582	
Elevation (M)*	408.623	
Northing (SFT)	766,863.7717	
Easting (SFT)	633,465.1314	
Elevation (SFT)*	1,340.623	

Convergence Angle	-1	20	33.3962540
Scale Factor	1.000041793		
Elevation Adjust. Factor	0.9999358779		
Combined Adjust. Factor	0.9999776682		

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

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	SOUTH END CMP	311	8.50	27.9		040029
MK # 2	WOODEN CORNER POST	203	1.80	5.9		271 05 50.46912
MK # 3	WOODEN BRACE POST	252	2.90	9.5		272 26 23.74450

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 V 26	
Ref Mon # 2 CASSPORT	
Ref Mon # 3 FLINT	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040030	Date Monumented 1/22/2001	Monumented By AHTD	County BENTON	Route 72	Job Number: 009969
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	235,198.9411	
Easting (M)	186,970.3177	
Elevation (M)*	402.477	
Northing (SFT)	771,648.5259	
Easting (SFT)	613,418.4507	
Elevation (SFT)*	1,320.461	

Convergence Angle	-1	22	56.8915588
Scale Factor	1.000044823		
Elevation Adjust. Factor	0.9999368422		
Combined Adjust. Factor	0.9999816623		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST	261	4.95	16.2
MK # 2	MOST EASTERLY BRACE POST	31	1.96	6.4
MK # 3	NORTHEAST END CMP	222	5.90	19.4

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>V 26</td> </tr> <tr> <td>Ref Mon # 2</td> <td>CASSPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>FLINT</td> </tr> </table>	Ref Mon # 1	V 26	Ref Mon # 2	CASSPORT	Ref Mon # 3	FLINT	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	V 26						
Ref Mon # 2	CASSPORT						
Ref Mon # 3	FLINT						

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 25 48.2966220
Longitude	94 22 32.8424412
Ellipsoid Height (M):	374.565
Geoid Height (M):	-28.072

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO WEST ON STATE HIGHWAY 72 FOR 4.50 KM (2.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.00 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 72, 9.85 METERS NORTHEAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 1.88 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040030 2001" SET ON TOP OF AN IRON ROD 0.65 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 502.558 METERS.</p>

AZ Mark Station	N 34 RESET 1987
Geodetic Azimuth	237 24 24.96790
Grid Azimuth	238 47 21.75806

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040031	Date Monumented 1/22/2001	Monumented By AHTD	County BENTON	Route CR 21	Job Number: 009969
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	239,159.1527	
Easting (M)	187,316.9709	
Elevation (M)*	394.183	
Northing (SFT)	784,641.3201	
Easting (SFT)	614,555.7620	
Elevation (SFT)*	1,293.249	

Convergence Angle	-1	22	51.0253578
Scale Factor	1.000054241		
Elevation Adjust. Factor	0.9999381436		
Combined Adjust. Factor	0.9999923813		

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

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO WEST ON STATE ON STATE HIGHWAY 72 AND STATE HIGHWAY 279 FOR 0.72 KM (0.49 MI) TO THE JUNCTION OF STATE HIGHWAY 279 SOUTH ON THE LEFT AND HIWASSIE ROAD (OLD COUNTY ROAD 468) ON THE RIGHT, GO RIGHT NORTH ON HIWASSE ROAD FOR 1.45 KM (0.90 MI) TO THE JUNCTION OF HIGHLAND BOULEVARD (OLD COUNTY ROAD 472) GO LEFT, WEST ON HIGHLAND BOULEVARD FOR 4.59 KM (2.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.30 METERS WEST OF THE CENTER OF HIGHLAND BOULEVARD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040031 2001" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 554.155 METERS.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	V 26	
Ref Mon # 2	CASSPORT	
Ref Mon # 3	FLINT	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040031A	Date Monumented 1/22/2001	Monumented By AHTD	County BENTON	Route CR 21	Job Number: 009969
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	238,605.9950	
Easting (M)	187,350.3032	
Elevation (M)*	388.853	
Northing (SFT)	782,826.5019	
Easting (SFT)	614,665.1197	
Elevation (SFT)*	1,275.761	

Convergence Angle	-1	22	49.9351251
Scale Factor	1.000052907		
Elevation Adjust. Factor	0.9999389801		
Combined Adjust. Factor	0.9999918838		

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

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO WEST ON STATE ON STATE HIGHWAY 72 AND STATE HIGHWAY 279 FOR 0.72 KM (0.49 MI) TO THE JUNCTION OF STATE HIGHWAY 279 SOUTH ON THE LEFT AND HIWASSIE ROAD (OLD COUNTY ROAD 468) ON THE RIGHT, GO RIGHT NORTH ON HIWASSE ROAD FOR 1.45 KM (0.90 MI) TO THE JUNCTION OF HIGHLAND BOULEVARD (OLD COUNTY ROAD 472), GO LEFT WEST ON HIGHLAND BOULEVARD FOR 4.34 KM (2.70 MI) TO THE JUNCTION OF A PAVED ROAD ON THE LEFT. GO LEFT, WEST ON THE PAVED ROAD FOR 0.04 KM (0.03 MI) TO A PAVED ROAD ON THE LEFT, GO LEFT SOUTH ON THE PAVED ROAD FOR 0.35 KM (0.22 MI) TO THE STATION SET IN THE MIDDLE OF THE ROAD. THE STATION IS 4.08 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "040031A 2001" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND 0.02 METERS BELOW THE PAVEMENT. THE SHOT DISTANCE IS 554.155 METERS.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	153	12.00	39.4
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 V 26</p> <p>Ref Mon # 2 CASSPORT</p> <p>Ref Mon # 3 FLINT</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040032	Date Monumented 1/22/2001	Monumented By AHTD	County BENTON	Route N/A	Job Number: 009969
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	242,561.4875	
Easting (M)	187,603.0654	
Elevation (M)*	380.047	
Northing (SFT)	795,803.8136	
Easting (SFT)	615,494.3904	
Elevation (SFT)*	1,246.871	

Convergence Angle	-1	22	46.2553766
Scale Factor	1.000062644		
Elevation Adjust. Factor	0.9999403618		
Combined Adjust. Factor	1.0000030021		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	V 26
Ref Mon # 2	CASSPORT
Ref Mon # 3	FLINT

Comments

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040034	Date Monumented 11/4/2002	Monumented By AHTD	County BENTON	Route 264	Job Number: 090147,090268
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	208,926.0170	
Easting (M)	172,649.0610	
Elevation (M)*	349.657	
Northing (SFT)	685,451.4408	
Easting (SFT)	566,432.7943	
Elevation (SFT)*	1,147.165	

Convergence Angle	-1	28	15.5731453
Scale Factor	0.999991757		
Elevation Adjust. Factor	0.9999451305		
Combined Adjust. Factor	0.9999368879		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	163	12.90	42.3
MK # 2				
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>SILOAM</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ENES</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SALLISAW</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	SILOAM	Ref Mon # 2	ENES	Ref Mon # 3	SALLISAW	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital Levels ran by crew S5110 from 2nd order NGS mark "K 31" in November 2009.</td> </tr> </table>	Comments	Digital Levels ran by crew S5110 from 2nd order NGS mark "K 31" in November 2009.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	SILOAM										
Ref Mon # 2	ENES										
Ref Mon # 3	SALLISAW										
Comments											
Digital Levels ran by crew S5110 from 2nd order NGS mark "K 31" in November 2009.											

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 11 24.6413076
Longitude	94 31 40.5002244
Ellipsoid Height (M):	321.416
Geoid Height (M):	-28.240

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 43 AND STATE HIGHWAY 264. LOCATED IN THE NORTHEAST CORNER OF SILOAM SPRINGS, GO SOUTH ON STATE HIGHWAY 264 FOR 0.51 MILES TO THE STATION ON THE RIGHT. THE STATION IS 18.00 METERS WEST OF THE CENTER LINE OF STATE HIGHWAY 264 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040034 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVELS FROM NGS BENCH K 31 PID # GG0210, BY CREW S5101.</p>

AZ Mark Station	SILOAM
Geodetic Azimuth	26 34 13
Grid Azimuth	28 02 29

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040035	Date Monumented 11/5/2002	Monumented By AHTD	County BENTON	Route 412	Job Number: 090024
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	207,513.4960	
Easting (M)	179,129.2310	
Elevation (M)*		
Northing (SFT)	680,817.1948	
Easting (SFT)	587,693.1520	
Elevation (SFT)*		

Convergence Angle	-1	25	43.8769187
Scale Factor	0.999989702		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	DROP INLET	298	17.00	55.8
MK # 2	RCP UNDER CROSSOVER LANE BETWEEN	98	10.80	35.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SILOAM	
Ref Mon # 2 ENES	
Ref Mon # 3 SALLISAW	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 10 44.1483204
Longitude	94 27 19.8086040
Ellipsoid Height (M):	306.604
Geoid Height (M):	-28.172

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 NORTH LOCATED ON THE EAST SIDE OF SILOAM SPRINGS, GO EAST ON U.S.HIGHWAY 412 FOR 2.37 MILES TO THE STATION ON THE LEFT. THE STATION IS 22.50 METERS WEST OF THE CENTER LINE OF THE CROSSOVER BETWEEN DIVIDED 412 LANES, 12.65 METERS NORTH OF THE CENTERLINE OF 412 EAST BOUND LANES AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040035 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	350035A
Geodetic Azimuth	116 22 01
Grid Azimuth	117 47 45

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040035A	Date Monumented 11/5/2002	Monumented By AHTD	County BENTON	Route 412	Job Number: 090024
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	207,177.6530	
Easting (M)	179,766.3270	
Elevation (M)*		
Northing (SFT)	679,715.3499	
Easting (SFT)	589,783.3578	
Elevation (SFT)*		

Convergence Angle	-1	25	28.8512195
Scale Factor	0.999989181		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 NORTH LOCATED ON THE EAST SIDE OF SILOAM SPRINGS, GO EAST ON U.S. HIGHWAY 412 FOR 2.80 MILES TO THE STATION ON THE LEFT. THE STATION IS 28.00 METERS EAST OF THE CENTER OF CROSSOVER LANE BETWEEN DIVIDED 412, 9.60 METERS NORTH OFF CENTER OF EAST BOUND 412 LANES AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED " 040035A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 SILOAM</p> <p>Ref Mon # 2 ENES</p> <p>Ref Mon # 3 SALLISAW</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040036	Date Monumented 11/5/2002	Monumented By AHTD	County BENTON	Route 59	Job Number: 090148
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	212,135.6800	
Easting (M)	175,664.7940	
Elevation (M)*	365.868	
Northing (SFT)	695,981.8101	
Easting (SFT)	576,326.9116	
Elevation (SFT)*	1,200.351	

Convergence Angle	-1	27	7.2536505
Scale Factor	0.999997354		
Elevation Adjust. Factor	0.9999425867		
Combined Adjust. Factor	0.9999399409		

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

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					040036A
MK # 2						181 19 54
MK # 3						182 47 02

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SILOAM Ref Mon # 2 ENES Ref Mon # 3 SALLISAW	ELEVATION BY 3 WIRE LOOP FROM NGS POINT K 31 BY S5101

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040036A	Date Monumented 11/5/2002	Monumented By AHTD	County BENTON	Route 59	Job Number: 090148
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	211,491.1830	
Easting (M)	175,633.4550	
Elevation (M)*	359.794	
Northing (SFT)	693,867.3229	
Easting (SFT)	576,224.0936	
Elevation (SFT)*	1,180.424	

Convergence Angle	-1	27	7.6030483
Scale Factor	0.999996234		
Elevation Adjust. Factor	0.9999435398		
Combined Adjust. Factor	0.9999397740		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF CORRIGATED METAL PIPE	223	3.10	10.2
MK # 2	NORTHERN MOST GATE POST	163	3.10	10.2
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 SILOAM Ref Mon # 2 ENES Ref Mon # 3 SALLISAW	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3 WIRE LOOP FROM NGS POINT K 31 BY S5101</td> </tr> </table>	Comments	ELEVATION BY 3 WIRE LOOP FROM NGS POINT K 31 BY S5101
Comments			
ELEVATION BY 3 WIRE LOOP FROM NGS POINT K 31 BY S5101			

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 NORTH LOCATED ON THE EAST SIDE OF SILOAM SPRINGS, GO NORTH ON STATE HIGHWAY 59 FOR 2.29 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.20 METERS EAST OF THE CENTER OF STATE HIGHWAY 59, 5.60 METERS NORTH OF A FIELD ENTRANCE, AND 0.46 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040036A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 12 50.3068464
Longitude	94 29 43.6928712
Ellipsoid Height (M):	331.566
Geoid Height (M):	-28.187

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040037	Date Monumented 11/5/2002	Monumented By AHTD	County BENTON	Route 59B	Job Number: 090148
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	216,769.7710	
Easting (M)	176,709.8520	
Elevation (M)*		
Northing (SFT)	711,185.4904	
Easting (SFT)	579,755.5728	
Elevation (SFT)*		

Convergence Angle	-1	26	45.6375903
Scale Factor	1.000005750		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 NORTH LOCATED ON THE EAST SIDE OF SILOAM SPRINGS, GO NORTH ON STATE HIGHWAY 59 FOR 5.90 MILES TO THE JUNCTION OF STATE HIGHWAY 59 AND 59B ON THE SOUTH EDGE OF GENTRY. TURN LEFT (NORTH) ON STATE HIGHWAY 59B AND CONTINUE ON FOR 0.16 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.90 METERS SOUTH OF THE CENTER OF A FIELD ENTRANCE, 7.75 METERS EAST OF THE CENTER OF STATE HIGHWAY 59B AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040037 2002" SET OF TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	MAN HOLE COVER	340	3.33	10.9	040037A
MK # 2	FIRE HYDRANT	262	38.40	126.0	183 46 06
MK # 3	WATER VALVE	163	4.73	15.5	185 12 52

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SILOAM	
Ref Mon # 2 ENES	
Ref Mon # 3 SALLISAW	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040037A	Date Monumented 11/5/2002	Monumented By AHTD	County BENTON	Route 59	Job Number: 090148
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	216,346.0070	
Easting (M)	176,671.1800	
Elevation (M)*		
Northing (SFT)	709,795.1913	
Easting (SFT)	579,628.6964	
Elevation (SFT)*		

Convergence Angle	-1	26	46.2894700
Scale Factor	1.000004962		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAN HOLE COVER	348	7.65	25.1
MK # 2	COMBINATION POLE	354	17.25	56.6
MK # 3	POWER POLE	249	16.10	52.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SILOAM Ref Mon # 2 ENES Ref Mon # 3 SALLISAW	

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 36 15 28.6135272

Longitude 94 29 7.0652544

Ellipsoid Height (M): 342.496

Geoid Height (M): -28.144

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 NORTH LOCATED ON THE EAST SIDE OF SILOAM SPRINGS, GO NORTH ON STATE HIGHWAY 59 FOR 5.80 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.30 METERS SOUTH OF A GRAVEL DRIVE, 9.40 METERS WEST OF THE CENTER OF STATE HIGHWAY 59, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040037A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040038	Date Monumented 11/5/2002	Monumented By AHTD	County BENTON	Route 59	Job Number: 090196,090024
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	203,497.4079	
Easting (M)	172,571.3980	
Elevation (M)*	354.250	
Northing (SFT)	667,641.0791	
Easting (SFT)	566,177.9949	
Elevation (SFT)*	1,162.234	

Convergence Angle	-1	28	14.1365795
Scale Factor	0.999983097		
Elevation Adjust. Factor	0.9999444098		
Combined Adjust. Factor	0.9999275077		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST	305	2.05	6.7
MK # 2	WOOD FENCE POST	260	2.65	8.7
MK # 3	WOOD FENCE POST	296	4.00	13.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SAL1	3-wire elevations based on AHTD GPS# 040057 in Job 090196 ran by S5101 in Sep 05 which is based on NGS K31 in Job 090024 by S5112 in July 05.
Ref Mon # 2 NDS1	
Ref Mon # 3 040038	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 8 28.5092628
Longitude	94 31 38.0314704
Ellipsoid Height (M):	325.942
Geoid Height (M):	-28.272

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 SOUTH LOCATED IN SILOAM SPRINGS, GO SOUTH ON STATE HIGHWAY 59 FOR 2.31 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.50 METERS WEST OF THE CENTER OF STATE HIGHWAY 59 AND 1.93 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040038 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	040038A
Geodetic Azimuth	227 02 16
Grid Azimuth	228 30 30

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040038A	Date Monumented 11/5/2002	Monumented By AHTD	County BENTON	Route 59	Job Number: 090196,090024
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	203,124.3629	
Easting (M)	172,149.6240	
Elevation (M)*	353.630	
Northing (SFT)	666,417.1806	
Easting (SFT)	564,794.2247	
Elevation (SFT)*	1,160.199	

Convergence Angle	-1	28	23.7271721
Scale Factor	0.999982512		
Elevation Adjust. Factor	0.9999445071		
Combined Adjust. Factor	0.9999270201		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORRIGATED METAL PIPE	45	9.70	31.8
MK # 2	TELEPHONE JUNCTION BAX	24	10.80	35.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="SAL1"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="NDS1"/> Ref Mon # 3 <input style="width: 150px;" type="text" value="040038"/>	3-wire elevations based on AHTD GPS# 040057 in Job 090196 ran by S5101 in Sep 05 which is based on NGS K31 in Job 090024 by S5112 in July 05.

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude

Longitude

Ellipsoid Height (M):

Geoid Height (M):

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 SOUTH LOCATED IN SILOAM SPRINGS, GO SOUTH ON STATE HIGHWAY 59 FOR 2.68 MILES TO THE STATION ON THE RIGHT. THE STATION IS 18.75 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD, 10.25 METERS WEST OF THE CENTER OF STATE HIGHWAY 59, AND 1.60 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040038A 2002" SET ON TOP OF AN IRON 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040039	Date Monumented 11/5/2002	Monumented By AHTD	County BENTON	Route 43	Job Number: 090147,090268
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	211,299.0439	
Easting (M)	170,169.9070	
Elevation (M)*		
Northing (SFT)	693,236.9465	
Easting (SFT)	558,299.1032	
Elevation (SFT)*		

Convergence Angle	-1	29	14.7276681
Scale Factor	0.999995661		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					040039A
MK # 2						156 18 20
MK # 3						157 47 35

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SILOAM	
Ref Mon # 2 ENES	
Ref Mon # 3 SALLISAW	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040039A	Date Monumented 11/5/2002	Monumented By AHTD	County BENTON	Route 43	Job Number: 090147,090268
---------------------------	-------------------------------------	------------------------------	-------------------------	--------------------	-------------------------------------

Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	210,827.7640	
Easting (M)	170,362.3000	
Elevation (M)*		
Northing (SFT)	691,690.7557	
Easting (SFT)	558,930.3126	
Elevation (SFT)*		

Convergence Angle	-1	29	9.9624526
Scale Factor	0.999994862		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	356	42.50	139.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	SILOAM
Ref Mon # 2	ENES
Ref Mon # 3	SALLISAW

Comments

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 36 12 24.4058868

Longitude 94 33 13.9688424

Ellipsoid Height (M): 306.364

Geoid Height (M): -28.262

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 43 AND STATE HIGHWAY 264 LOCATED IN THE NORTHEAST PART OF SILOAM SPRINGS, GO NORTH ON STATE HIGHWAY 43 FOR 2.38 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.10 METERS WEST OF THE CENTER OF STATE HIGHWAY 43 AND 1.40 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040039A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040041	Date Monumented 12/4/2002	Monumented By AHTD	County BENTON	Route 59	Job Number: 090014,090151
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	242,041.8932	
Easting (M)	179,255.6400	
Elevation (M)*		
Northing (SFT)	794,099.1113	
Easting (SFT)	588,107.8789	
Elevation (SFT)*		

Convergence Angle	-1	26	1.0506490
Scale Factor	1.000060834		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	METAL FENCE POST	226	18.70	61.4	
MK # 2	COMBINATION POLE	132	20.00	65.6	
MK # 3	NORTH END CORRIGATED METAL PIPE	142	29.70	97.4	

Area Reference Monuments (used for Processing) Ref Mon # 1 CASSPORT Ref Mon # 2 V 26 Ref Mon # 3 SILOAM	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 29 24.0667080
Longitude	94 27 49.3218468
Ellipsoid Height (M):	264.991
Geoid Height (M):	-28.282

Location Description
<p>TO REACH THE STATION FROM THE ARKANSAS MISSOURI STATE LINE NORTH OF SULPHUR SPRINGS, GO SOUTH ON STATE HIGHWAY 59 FOR 1.21 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.9 METERS EAST OF THE CENTER OF STATE HIGHWAY 59 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040041 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS POINT WILL ALSO BE USED FOR JOB # 090151.</p>

AZ Mark Station	040041A
Geodetic Azimuth	141 30 18
Grid Azimuth	142 56 19

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040041A	Date Monumented 12/4/2002	Monumented By AHTD	County BENTON	Route 59	Job Number: 090014,090151
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	241,654.9661	
Easting (M)	179,547.8590	
Elevation (M)*		
Northing (SFT)	792,829.6679	
Easting (SFT)	589,066.6007	
Elevation (SFT)*		

Convergence Angle	-1	25	53.9953536
Scale Factor	1.000059891		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	300	22.90	75.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CASSPORT Ref Mon # 2 V 26 Ref Mon # 3 SILOAM	

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 36 29 11.7557988

Longitude 94 27 37.1972448

Ellipsoid Height (M): 267.024

Geoid Height (M): -28.269

Location Description

TO REACH THE STATION FROM THE ARKANSAS MISSOURI STATE LINE NORTH OF SULPHUR SPRINGS, GO SOUTH ON STATE HIGHWAY 59 FOR 1.51 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.20 METERS WEST OF THE CENTER OF STATE HIGHWAY 59 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040041A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS POINT WILL ALSO BE USED FOR JOB # 090151.

AZ Mark Station	040041
Geodetic Azimuth	321 30 25
Grid Azimuth	322 56 19

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040042	Date Monumented 12/5/2002	Monumented By AHTD	County BENTON	Route 340	Job Number: 090156, O109D25,09X007
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	239,994.6518 0.0020
Easting (M)	197,444.5524 0.0020
Elevation (M)*	

Northing (SFT)	787,382.4534	
Easting (SFT)	647,782.6690	
Elevation (SFT)*		

Convergence Angle	-1	18	54.8475217
Scale Factor	1.000056856		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	28	31.8265752
Longitude	94	15	36.8878248
Ellipsoid Height:	306.281		
Grid Northing (Meters)	239,994.6581		
Grid Easting (Meters)	197,444.5350		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF 18" CULVERT ACROSS ROYCE CREEK	334	18.20	59.7
MK # 2	POWER POLE	323	27.50	90.2
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY, CTA1 (CASSPORT) Ref Mon # 2 ARHR (V 26) Ref Mon # 3 SAL5 (SILOAM)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> CONSTRAINED ELEVATION ON NGS 1ST ORDER BM V 26 IN FINAL STATIC ADJUSTMENT FROM SIMULTANEOUS STATIC OBSERVATIONS ON GPS #'S 040042 & 040042A & V 26. </td> </tr> </table>	Comments	CONSTRAINED ELEVATION ON NGS 1ST ORDER BM V 26 IN FINAL STATIC ADJUSTMENT FROM SIMULTANEOUS STATIC OBSERVATIONS ON GPS #'S 040042 & 040042A & V 26.
Comments			
CONSTRAINED ELEVATION ON NGS 1ST ORDER BM V 26 IN FINAL STATIC ADJUSTMENT FROM SIMULTANEOUS STATIC OBSERVATIONS ON GPS #'S 040042 & 040042A & V 26.			

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040042A	Date Monumented 12/5/2002	Monumented By AHTD	County BENTON	Route 340	Job Number: 090156, O109D25,09X007
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	240,119.1569	0.0020			
Easting (M)	197,877.8047	0.0020			
Elevation (M)*					
Northing (SFT)	787,790.9339				
Easting (SFT)	649,204.0976				
Elevation (SFT)*					

Convergence Angle	-1	18	44.7902058
Scale Factor	1.000057186		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL				
Horizontal Datum	NAD 83 (1997)			
Latitude	36	28	36.1863840	
Longitude	94	15	19.6043832	
Ellipsoid Height:	280.707			
Grid Northing (Meters)	240,119.1532			
Grid Easting (Meters)	197,877.7830			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	60	15.90	52.2
MK # 2	GATE POST	253	10.30	33.8
MK # 3	CORRIGATED METAL PIPE	76	31.20	102.4

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY, CTA1 (CASSPORT) Ref Mon # 2 ARHR (V 26) Ref Mon # 3 SAL5 (SILOAM)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> CONSTRAINED ELEVATION ON NGS 1ST ORDER BM V 26 IN FINAL STATIC ADJUSTMENT FROM SIMULTANEOUS STATIC OBSERVATIONS ON GPS #'S 040042 & 040042A & V 26. </td> </tr> </table>	Comments	CONSTRAINED ELEVATION ON NGS 1ST ORDER BM V 26 IN FINAL STATIC ADJUSTMENT FROM SIMULTANEOUS STATIC OBSERVATIONS ON GPS #'S 040042 & 040042A & V 26.
Comments			
CONSTRAINED ELEVATION ON NGS 1ST ORDER BM V 26 IN FINAL STATIC ADJUSTMENT FROM SIMULTANEOUS STATIC OBSERVATIONS ON GPS #'S 040042 & 040042A & V 26.			

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040043	Date Monumented 9/11/2003	Monumented By AHTD	County BENTON	Route 102	Job Number: 090174
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	226,928.3551	
Easting (M)	197,400.0510	
Elevation (M)*		
Northing (SFT)	744,514.1117	
Easting (SFT)	647,636.6673	
Elevation (SFT)*		

Convergence Angle	-1	18	48.8862068
Scale Factor	1.000026976		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	FIRE HYDRANT	149	5.50	18.0	
MK # 2	MAIL BOX#1619	300	14.80	48.6	
MK # 3					

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>BENTPORT,BENTPORTAZ</td> </tr> <tr> <td>Ref Mon # 2</td> <td>V26</td> </tr> <tr> <td>Ref Mon # 3</td> <td>OKMU</td> </tr> </table>	Ref Mon # 1	BENTPORT,BENTPORTAZ	Ref Mon # 2	V26	Ref Mon # 3	OKMU	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	BENTPORT,BENTPORTAZ						
Ref Mon # 2	V26						
Ref Mon # 3	OKMU						

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 36 21 28.0236276

Longitude 94 15 26.6425380

Ellipsoid Height (M): 357.121

Geoid Height (M): -28.040

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 71B AND HIGHWAY 102, IN BENTONVILLE, GO WEST ON HIGHWAY 102 2.4 MILES TO THE STATION ON THE LEFT, 17.6 METERS EAST OF A DRIVEWAY, SOUTH 12.2 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040040 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	040040A
Geodetic Azimuth	272 56 09
Grid Azimuth	274 14 57

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040043A	Date Monumented 9/11/2003	Monumented By AHTD	County BENTON	Route 102	Job Number: 090174
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	226,980.4181	
Easting (M)	196,699.3330	
Elevation (M)*		
Northing (SFT)	744,684.9217	
Easting (SFT)	645,337.7284	
Elevation (SFT)*		

Convergence Angle	-1	19	5.2638613
Scale Factor	1.000027052		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	FENCE CORNER	347	6.90	22.6		
MK # 2	FIRE HYDRANT	289	16.20	53.1		
MK # 3						

Area Reference Monuments (used for Processing)	
Ref Mon # 1	BENTPORT,BENTPORTAZ
Ref Mon # 2	V26
Ref Mon # 3	OKMU

Comments
MARK WAS DESTROYED DURING WIDENING JOB 090174

Vertical Determined By: NONE	
Elevation Datum: NONE	
Geoid Datum:	
Latitude	36 21 29.1901644
Longitude	94 15 54.7877160
Ellipsoid Height (M):	358.860
Geoid Height (M):	-28.037

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 71B AND HIGHWAY 102, IN BENTONVILLE, GO WEST ON HIGHWAY 102 2.8 MILES TO THE STATION ON THE RIGHT, 6.6 METERS WEST OF A TURN IN, NORTH 6.05 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 6.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040040A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040044	Date Monumented 9/24/2003	Monumented By AHTD	County BENTON	Route 72	Job Number: 090178,090236
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	229,436.9701	
Easting (M)	204,840.8950	
Elevation (M)*	399.332	
Northing (SFT)	752,744.4594	
Easting (SFT)	672,048.8363	
Elevation (SFT)*	1,310.143	

Convergence Angle	-1	15	56.5602823
Scale Factor	1.000032749		
Elevation Adjust. Factor	0.9999373356		
Combined Adjust. Factor	0.9999700826		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NE CORNER OF BRIDGE END	164	2.90	9.5
MK # 2	3rd GUARD RAIL POST GOING EAST FROM BRIDGE	73	3.30	10.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BENTPORT, BENTPORT AZ Ref Mon # 2 V 26 Ref Mon # 3 OKMU, CNWM CORS	3-wire levels ran by crew S5101 in June 07 from 1st order NGS mark R 26.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040044A	Date Monumented 9/24/2003	Monumented By AHTD	County BENTON	Route I-540	Job Number: 090178,090236
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	229,910.5630	
Easting (M)	204,242.8270	
Elevation (M)*	387.839	
Northing (SFT)	754,298.2388	
Easting (SFT)	670,086.6749	
Elevation (SFT)*	1,272.433	

Convergence Angle	-1	16	10.7643551
Scale Factor	1.000033760		
Elevation Adjust. Factor	0.9999391392		
Combined Adjust. Factor	0.9999728971		

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

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY I-540 AND HIGHWAY 72, EXIT 88, EAST OF BENTONVILLE, GO NORTH ON I-540 0.45 MILES TO THE STATION ON THE LEFT, EAST 6.1 METERS OF THE CENTERLINE OF THE SERVICE ROAD, 12.50 METERS WEST OF THE EDGE OF PAVEMENT OF THE SOUTH BOUND LANE OF I-540 AND EAST 0.50 METES OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040044A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						040044A
MK # 2						127 06 18
MK # 3						128 22 29

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BENTPORT, BENTPORT AZ Ref Mon # 2 V 26 Ref Mon # 3 OKMU, CNWM CORS	3-wire levels ran by crew S5101 in June 07 from 1st order NGS mark R 26.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040046	Date Monumented 10/6/2003	Monumented By AHTD	County BENTON	Route I-540	Job Number: 090180,012069,012111
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	221,404.0410	
Easting (M)	203,716.2740	
Elevation (M)*	385.353	
Northing (SFT)	726,389.7578	
Easting (SFT)	668,359.1423	
Elevation (SFT)*	1,264.280	

Convergence Angle	-1	16	18.6466606
Scale Factor	1.000015904		
Elevation Adjust. Factor	0.9999395292		
Combined Adjust. Factor	0.9999554322		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL POLE WITH A SIREN ON TOP	342	32.50	106.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BENTPORT, BENTPORTAZ	3 - Wire Elevations ran from K 309 in Job # 090180 and est. ELEV 1264.4145. 3-Wire Levels ran in Dec 2007 by crew S5101 from NGS marks Q 310, J 27, K 310, A 27, L 309 and came up with an elevation of 1264.2797 feet.
Ref Mon # 2 OKMU, CNWM	
Ref Mon # 3 V 26	

AZ Mark Station	040018
Geodetic Azimuth	5 26 50
Grid Azimuth	6 43 08

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040048	Date Monumented 9/8/2000	Monumented By AHTD	County BENTON	Route CR 215	Job Number: 001966
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	212,067.8600	
Easting (M)	194,256.6060	
Elevation (M)*	325.776	
Northing (SFT)	695,759.3040	
Easting (SFT)	637,323.5482	
Elevation (SFT)*	1,068.815	

Convergence Angle	-1	19	54.1705888
Scale Factor	0.999998025		
Elevation Adjust. Factor	0.9999488778		
Combined Adjust. Factor	0.9999469029		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER FOR GATE	27	25.30	83.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AGRONOMY	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
Ref Mon # 2 V 26	
Ref Mon # 3 SALI	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 13 23.6872524
Longitude	94 17 18.8344608
Ellipsoid Height (M):	297.733
Geoid Height (M):	-28.052

Location Description
<p>TO REACH THE STATION MARK FROM THE WASHINGTON AND BENTON COUNTY LINES ON STATE HIGHWAY 112, NORTH OF ELM SPRINGS, GO NORTH ON STATE HIGHWAY 112 0.50 MILES TO MARCHANT ROAD AND TURN LEFT AND GO WEST ON THE PAVED ROAD 1.6 MILES TO A "T" JUNCTION AND GO RIGHT ON SNAVLEY ROAD 1.8 MILES TO STATION ON THE LEFT, WEST OF THE CENTERLINE OF THE ROAD 5.5 METERS AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040048 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	040048A
Geodetic Azimuth	3 36 07
Grid Azimuth	4 56 01

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040048A	Date Monumented 9/8/2004	Monumented By AHTD	County BENTON	Route CR 215	Job Number: 001966
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	212,489.3800	
Easting (M)	194,292.9930	
Elevation (M)*	331.810	
Northing (SFT)	697,142.2409	
Easting (SFT)	637,442.9279	
Elevation (SFT)*	1,088.614	

Convergence Angle	-1	19	53.5512398
Scale Factor	0.999998768		
Elevation Adjust. Factor	0.9999479309		
Combined Adjust. Factor	0.9999466990		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	28	2.10	6.9
MK # 2	TELEPHONE RISER	11	3.20	10.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AGRONOMY Ref Mon # 2 V 26 Ref Mon # 3 SAL1	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

Location Description			
TO REACH THE STATION MARK FROM THE WASHINGTON AND BENTON COUNTY LINES ON STATE HIGHWAY 112, NORTH OF ELM SPRINGS, GO NORTH ON STATE HIGHWAY 112 0.50 MILES TO MARCHANT ROAD AND TURN LEFT AND GO WEST ON THE PAVED ROAD 1.6 MILES TO A "T" JUNCTION AND GO RIGHT ON SNAVELY ROAD 2.1 MILES TO STATION ON THE RIGHT, EAST OF THE CENTERLINE OF THE ROAD 6.2 METERS AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040048A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040049 (p.1)	Date Monumented 9/8/2004	Monumented By AHTD	County BENTON	Route 112	Job Number: 001966,090347,090402
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	214,825.0103	0.0020	
Easting (M)	199,187.4234	0.0020	
Elevation (M)*	346.880		

Northing (SFT)	704,805.0546		
Easting (SFT)	653,500.7383		
Elevation (SFT)*	1,138.055		

Convergence Angle	-1	18	0.7717738
Scale Factor	1.000003160		
Elevation Adjust. Factor	0.9999455662		
Combined Adjust. Factor	0.9999487260		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	14	56.7901536
Longitude	94	14	3.9574320
Ellipsoid Height:	318.822		
Grid Northing (Meters)	214,825.0740		
Grid Easting (Meters)	199,187.4230		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UNDERGROUND CABLE MARKER	190	27.70	90.9
MK # 2	COMBINATION POLE	196	35.30	115.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: SAL5	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004. STATIC UPDATED IN AUGUST OF 2013 FROM STATIC OBSERVATIONS BY S5112 FOR JOB #'S 090347 & 090402. **NOTE: ELEVATION FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT. *****SEE DATASHEET FOR 040049 (p.2) FOR LATEST OBSERVED POSITION ON
Ref Mon # 2: MOCA	
Ref Mon # 3: ARHR	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040049 (p.2)	Date Monumented 9/8/2004	Monumented By AHTD	County BENTON	Route 112	Job Number: 012270, 090513
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	214,825.0206 0.0020
Easting (M)	199,187.4203 0.0020
Elevation (M)*	346.820
Northing (SFT)	704,805.0884
Easting (SFT)	653,500.7281
Elevation (SFT)*	1,137.859

Convergence Angle	-1	18	0.7718513
Scale Factor	1.000003160		
Elevation Adjust. Factor	0.9999455756		
Combined Adjust. Factor	0.9999487354		

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

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO SOUTH ON HIGHWAY 112 0.75 MILES TO THE STATION MARK ON THE LEFT, EAST 9.4 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040049 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					040118
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARFY Ref Mon # 2: CTA1 Ref Mon # 3: MOA2	SEE DATASHEET 040049 (p.1) FOR PREVIOUS DATA ON THIS GPS POINT *****ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040050	Date Monumented 9/8/2004	Monumented By AHTD	County BENTON	Route CR 72	Job Number: 001966
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	213,816.3890	
Easting (M)	202,894.7690	
Elevation (M)*	387.197	
Northing (SFT)	701,495.9362	
Easting (SFT)	665,663.9213	
Elevation (SFT)*	1,270.329	

Convergence Angle	-1	16	33.8619970
Scale Factor	1.000001483		
Elevation Adjust. Factor	0.9999392398		
Combined Adjust. Factor	0.9999407227		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	52	10.85	35.6
MK # 2	BRACE POST ON FENCE	353	7.90	25.9
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 AGRONOMY Ref Mon # 2 V 26 Ref Mon # 3 SAL1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.</td> </tr> </table>	Comments	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
Comments			
3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND WAGONWHEEL ROAD, ON THE SOUTH EDGE OF CAVE SPRINGS, GO EAST ON WAGONWHEEL ROAD FOR 1.8 MILES TO ZIEGLER LANE ON THE LEFT. GO LEFT ON ZIEGLER LANE FOR 0.35 MILES TO BROWN LANE AND CONTINUE AHEAD ON ZIEGLER LANE FOR 0.80 MILES TO A GRAVEL ROAD ON THE RIGHT, TURN RIGHT AND GO 0.15 MILES TO THE STATION ON THE RIGHT, WEST 4.40 METERS OF THE CENTERLINE AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040050 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	040050A
Geodetic Azimuth	144 05 59
Grid Azimuth	145 2 23

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040050A	Date Monumented 9/8/2004	Monumented By AHTD	County BENTON	Route CR 72	Job Number: 001966
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	213,593.3500	
Easting (M)	203,048.7720	
Elevation (M)*	391.768	
Northing (SFT)	700,764.1825	
Easting (SFT)	666,169.1795	
Elevation (SFT)*	1,285.326	

Convergence Angle	-1	16	30.1582269
Scale Factor	1.000001088		
Elevation Adjust. Factor	0.9999385226		
Combined Adjust. Factor	0.9999396105		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	25	13.45	44.1
MK # 2	END OF FENCE	35	13.65	44.8
MK # 3	POWER POLE	299	29.35	96.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AGRONOMY Ref Mon # 2 V 26 Ref Mon # 3 SAL1	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

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

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 14 19.6544832
Longitude	94 11 28.2369912
Ellipsoid Height (M):	363.774
Geoid Height (M):	-28.018

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND WAGONWHEEL ROAD, ON THE SOUTH EDGE OF CAVE SPRINGS, GO EAST ON WAGONWHEEL ROAD FOR 1.8 MILES TO ZIEGLER LANE ON THE LEFT. GO LEFT ON ZIEGLER LANE FOR 0.35 MILES TO BROWN LANE AND CONTINUE AHEAD ON ZIEGLER LANE FOR 0.70 MILES TO THE STATION ON THE RIGHT, SOUTH 5.25 METERS OF THE CENTERLINE AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040050A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040051	Date Monumented 9/8/2004	Monumented By AHTD	County BENTON	Route 540	Job Number: 001966, 012111, 012366
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	213,011.7080	
Easting (M)	204,970.8080	
Elevation (M)*	393.048	
Northing (SFT)	698,855.9120	
Easting (SFT)	672,475.0592	
Elevation (SFT)*	1,289.526	

Convergence Angle	-1	15	45.0790450
Scale Factor	1.000000123		
Elevation Adjust. Factor	0.9999383217		
Combined Adjust. Factor	0.9999384447		

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

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF I-540 AND WAGON WHEEL ROAD (EXIT 76), SOUTH OF ROGERS, GO NORTH ON I-540 0.80 MILES TO THE STATION IN THE MEDIAN, 10.70 METERS NORTHWEST OF THE NORTH BOUND LANE, SOUTHEAST 5.10 METERS OF THE SOUTH BOUND LANES AND NORTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040051 2004" ON TOP OF A 0.37 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 AGRONOMY Ref Mon # 2 V 26 Ref Mon # 3 SAL1	Comments 3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040051A	Date Monumented 9/8/2004	Monumented By AHTD	County BENTON	Route 540	Job Number: 001966, 012111, 012366
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	212,647.4380	
Easting (M)	204,383.2210	
Elevation (M)*	381.317	
Northing (SFT)	697,660.8028	
Easting (SFT)	670,547.2842	
Elevation (SFT)*	1,251.037	

Convergence Angle	-1	15	58.5804927
Scale Factor	0.999999452		
Elevation Adjust. Factor	0.9999401625		
Combined Adjust. Factor	0.9999396146		

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

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF I-540 AND WAGON WHEEL ROAD (EXIT 76), SOUTH OF ROGERS, GO NORTH ON I-540 0.40 MILES TO THE STATION IN THE MEDIAN, 10.35 METERS NORTHWEST OF THE NORTH BOUND LANE, SOUTHEAST 5.00 METERS OF THE SOUTH BOUND LANES AND NORTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040051A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 AGRONOMY Ref Mon # 2 V 26 Ref Mon # 3 SAL1	Comments 3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040052	Date Monumented 9/8/2004	Monumented By AHTD	County BENTON	Route 540	Job Number: 66,012069,090240,012111,01
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	215,054.0580	
Easting (M)	206,785.2050	
Elevation (M)*	388.133	
Northing (SFT)	705,556.5220	
Easting (SFT)	678,427.7934	
Elevation (SFT)*	1,273.400	

Convergence Angle	-1	15	3.8478416
Scale Factor	1.000003889		
Elevation Adjust. Factor	0.9999390930		
Combined Adjust. Factor	0.9999429817		

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

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF I-540 AND STATE HIGHWAY 264 (EXIT 78), IN LOWELL, GO SOUTH ON I-540 0.1 MILES TO THE STATION MARK ON THE LEFT, EAST 23.8 METERS OF THE NORTH BOUND LANE AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 040052 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 AGRONOMY Ref Mon # 2 V 26 Ref Mon # 3 SAL1	Comments 3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004. Verified by crew S5101 in December 2007 from NGS marks Q 310, J 27, K 310, A 27, L 309.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040052A	Date Monumented 9/8/2004	Monumented By AHTD	County BENTON	Route 540	Job Number: 001966,012069, 012366
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	214,516.6670	
Easting (M)	206,716.9080	
Elevation (M)*	390.765	
Northing (SFT)	703,793.4316	
Easting (SFT)	678,203.7223	
Elevation (SFT)*	1,282.035	

Convergence Angle	-1	15	5.1657831
Scale Factor	1.000002904		
Elevation Adjust. Factor	0.9999386800		
Combined Adjust. Factor	0.9999415838		

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

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF I-540 AND STATE HIGHWAY 264 (EXIT 78), IN LOWELL, GO SOUTH ON I-540 0.4 MILES TO THE STATION MARK IN THE MEDIAN, EAST 5.35 METERS OF THE NORTH BOUND LANE, WEST 10.75 METERS OF THE SOUTH BOUND LANE AND EAST 10.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 1/4" CAP STAMPED " 040052A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 AGRONOMY Ref Mon # 2 V 26 Ref Mon # 3 SAL1	Comments 3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004. Verified by crew S5101 in December 2007 from NGS marks Q 310, J 27, K 310, A 27, L 309.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040053	Date Monumented 9/8/2004	Monumented By AHTD	County BENTON	Route 71B	Job Number: 001966,012366
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	212,658.3550	
Easting (M)	207,857.3520	
Elevation (M)*	413.761	
Northing (SFT)	697,696.6197	
Easting (SFT)	681,945.3290	
Elevation (SFT)*	1,357.481	

Convergence Angle	-1	14	37.6518229
Scale Factor	0.999999607		
Elevation Adjust. Factor	0.9999350716		
Combined Adjust. Factor	0.9999346786		

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

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	CMP		178	15.25	50.0
MK # 2	LIGHT POLE		358	20.30	66.6
MK # 3	NORTHEAST CORNER METAL BRIDGE		243	23.00	75.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AGRONOMY Ref Mon # 2 V 26 Ref Mon # 3 SAL1	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040053A	Date Monumented 9/8/2004	Monumented By AHTD	County BENTON	Route 71B	Job Number: 001966,012366
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	212,056.5050	
Easting (M)	207,857.5560	
Elevation (M)*	410.220	
Northing (SFT)	695,722.0502	
Easting (SFT)	681,945.9983	
Elevation (SFT)*	1,345.862	

Convergence Angle	-1	14	37.3426732
Scale Factor	0.999998542		
Elevation Adjust. Factor	0.9999356273		
Combined Adjust. Factor	0.9999341694		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	ELECTRIC METER	9	7.55	24.8
MK # 2	LIGHT POLE	170	10.90	35.8
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 AGRONOMY Ref Mon # 2 V 26 Ref Mon # 3 SAL1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.</td> </tr> </table>	Comments	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
Comments			
3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.			

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 13 33.2353236
Longitude	94 8 14.3622312
Ellipsoid Height (M):	382.232
Geoid Height (M):	-27.994

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF 71B AND THE WASHINGTON/BENTON COUNTY LINE, NORTH OF FAYETTEVILLE, GO NORTH ON 71B FOR 1.10 MILE TO THE STATION ON THE RIGHT, SOUTH OF A CONC DRIVE 22.1 METERS, EAST 14.80 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST 1.85 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040053A 2004" ON TOP OF A 1.22 METER IRON ROD. THE MARK IS 0.10 MILES NORTH OF 71B AND 264E.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040054	Date Monumented 9/8/2004	Monumented By AHTD	County BENTON	Route 412	Job Number: 001966,012153,012366
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	212,483.3200	
Easting (M)	209,963.1050	
Elevation (M)*	423.395	
Northing (SFT)	697,122.3590	
Easting (SFT)	688,853.9537	
Elevation (SFT)*	1,389.089	

Convergence Angle	-1	13	48.5073984
Scale Factor	0.999999377		
Elevation Adjust. Factor	0.9999335599		
Combined Adjust. Factor	0.9999329370		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH GATE POST	169	9.90	32.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: AGRONOMY	3rd Order 3-Wire Levels were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004 (elev. 423.3994 meters). 3rd Order Combination of 3-Wire & Digital Levels re-ran from NGS J 309 and V 26 by CTA & S5112 in Job 012126-Eastern North-South Corridor (Fayetteville-Rogers)P.E. in March 2012 & the elevation updated.
Ref Mon # 2: V 26	
Ref Mon # 3: SAL1	

Vertical Determined By:	See Comments
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 13 48.5539500
Longitude	94 6 50.4382788
Ellipsoid Height (M):	395.428
Geoid Height (M):	-27.991

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND OLD WIRE ROAD, NORTH OF SPRINGDALE, GO NORTH ON OLD WIRE ROAD 0.45 MILES TO THE STATION ON THE LEFT, NORTH 14.0 METERS OF A GRAVEL DRIVE, WEST 8.70 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040054 2004" ON TOP OF A 11.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040054A	Date Monumented 9/8/2004	Monumented By AHTD	County BENTON	Route 412	Job Number: 001966,012153,012366
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	212,996.7580	
Easting (M)	209,920.8510	
Elevation (M)*	420.963	
Northing (SFT)	698,806.8635	
Easting (SFT)	688,715.3253	
Elevation (SFT)*	1,381.108	

Convergence Angle	-1	13	49.7486773
Scale Factor	1.000000288		
Elevation Adjust. Factor	0.9999339416		
Combined Adjust. Factor	0.9999342296		

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

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND OLD WIRE ROAD, NORTH OF SPRINGDALE, GO NORTH ON OLD WIRE ROAD 0.75 MILES TO THE STATION ON THE RIGHT, ACROSS THE ROAD FROM THE JUNCTION OF OLD WIRE ROAD AND QUAIL RUN STREET, 8.70 METERS EAST OF THE CENTERLINE OF THE HIGHWAY AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040054A 2004" ON TOP OF A 0.77 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments
3rd Order 3-Wire Levels were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004 (elev. 420.9661 meters). 3rd Order Combination of 3-Wire & Digital Levels re-ran from NGS J 309 and V 26 by CTA & S5112 in Job 012126-Eastern North-South Corridor (Fayetteville-Rogers) P.E. in March 2012 & the elevation updated.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040055	Date Monumented 9/8/2004	Monumented By AHTD	County BENTON	Route 412	Job Number: 001966,012366
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	211,505.0109	
Easting (M)	211,844.9850	
Elevation (M)*	429.865	
Northing (SFT)	693,912.6899	
Easting (SFT)	695,028.0883	
Elevation (SFT)*	1,410.315	

Convergence Angle	-1	13	4.1819555
Scale Factor	0.999997725		
Elevation Adjust. Factor	0.9999325447		
Combined Adjust. Factor	0.9999302699		

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

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND MOUNTAIN ROAD, NORTHEAST OF SPRINGDALE, GO SOUTH ON MOUNTAIN ROAD FOR 0.15 MILES TO THE STATION MARK ON THE LEFT, EAST OF THE CENTERLINE OF THE HIGHWAY 8.10 METERS AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040055 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	180	51.00	167.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 AGRONOMY Ref Mon # 2 V 26 Ref Mon # 3 SALI	Comments 3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040055A	Date Monumented 9/8/2004	Monumented By AHTD	County BENTON	Route 412	Job Number: 001966,012366
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	210,935.1020	
Easting (M)	211,809.7240	
Elevation (M)*	426.880	
Northing (SFT)	692,042.9138	
Easting (SFT)	694,912.4028	
Elevation (SFT)*	1,400.522	

Convergence Angle	-1	13	4.7210744
Scale Factor	0.999996731		
Elevation Adjust. Factor	0.9999330131		
Combined Adjust. Factor	0.9999297443		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	198	3.57	11.7
MK # 2	CMP	10	7.30	24.0
MK # 3	TELEPHONE RISER	1	20.50	67.3

Area Reference Monuments (used for Processing) Ref Mon # 1 AGRONOMY Ref Mon # 2 V 26 Ref Mon # 3 SAL1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.</td> </tr> </table>	Comments	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
Comments			
3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND MOUNTAIN ROAD, NORTHEAST OF SPRINGDALE, GO SOUTH ON MOUNTAIN ROAD FOR 0.50 MILES TO THE STATION MARK ON THE RIGHT, 12.25 METERS SOUTH OF A GRAVEL DRIVE, WEST OF THE CENTERLINE OF THE HIGHWAY 4.95 METERS AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040055A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040056	Date Monumented 9/9/2004	Monumented By AHTD	County BENTON	Route 412	Job Number: 001966,012366
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	210,073.2280	
Easting (M)	213,440.1630	
Elevation (M)*	423.890	
Northing (SFT)	689,215.2489	
Easting (SFT)	700,261.6014	
Elevation (SFT)*	1,390.711	

Convergence Angle	-1	12	26.3210347
Scale Factor	0.999995304		
Elevation Adjust. Factor	0.9999334823		
Combined Adjust. Factor	0.9999287866		

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

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND STATE HIGHWAY 71B, NORTH OF SPRINGDALE, GO EAST ON HIGHWAY 264 FOR 2.5 MILES TO NORTH MOUNTAIN DRIVE AND TURN RIGHT AND GO 0.2 MILES TO REED ROAD AND TURN LEFT AND GO 1.2 MILES TO LUPER ROAD AND TURN RIGHT AND GO 0.2 MILES TO MONITOR ROAD AND TURN LEFT AND GO 0.05 MILES TO THE STATION ON THE RIGHT, SOUTH 5.50 METERS OF THE CENTERLINE AND NORTH 3.25 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040056 2004" ON TOP OF A 0.67 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 AGRONOMY</p> <p>Ref Mon # 2 V 26</p> <p>Ref Mon # 3 SAL1</p>	<p style="text-align: center;">Comments</p> <p>3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040056A	Date Monumented 9/9/2004	Monumented By AHTD	County BENTON	Route 412	Job Number: 001966,012366
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	210,062.7550	
Easting (M)	214,049.0560	
Elevation (M)*	426.465	
Northing (SFT)	689,180.8887	
Easting (SFT)	702,259.2779	
Elevation (SFT)*	1,399.160	

Convergence Angle	-1	12	12.1345899
Scale Factor	0.999995308		
Elevation Adjust. Factor	0.9999330783		
Combined Adjust. Factor	0.9999283866		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	57	8.65	28.4
MK # 2	GATE POST WEST END	158	16.50	54.1
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 AGRONOMY Ref Mon # 2 V 26 Ref Mon # 3 SAL1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.</td> </tr> </table>	Comments	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
Comments			
3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND STATE HIGHWAY 71B, NORTH OF SPRINGDALE, GO EAST ON HIGHWAY 264 FOR 2.5 MILES TO NORTH MOUNTAIN DRIVE AND TURN RIGHT AND GO 0.2 MILES TO REED ROAD AND TURN LEFT AND GO 1.2 MILES TO LUPER ROAD AND TURN RIGHT AND GO 0.2 MILES TO MONITOR ROAD AND TURN LEFT AND GO 0.30 MILES TO THE STATION ON THE LEFT, NORTH 6.4 METERS OF THE CENTERLINE AND SOUTH 4.90 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040056A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040057	Date Monumented 10/6/2004	Monumented By AHTD	County BENTON	Route 59	Job Number: 090196,090268
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	206,908.1350	
Easting (M)	172,590.9020	
Elevation (M)*	360.135	
Northing (SFT)	678,831.1062	
Easting (SFT)	566,241.9843	
Elevation (SFT)*	1,181.543	

Convergence Angle	-1	28	15.7207475
Scale Factor	0.999988452		
Elevation Adjust. Factor	0.9999434863		
Combined Adjust. Factor	0.9999319389		

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

Location Description				
THE STATION MARK IS LOCATED AT THE SOUTHEAST CORNER OF THE STATE HIGHWAY 412 OVERPASS BRIDGE OVER STATE HIGHWAY 59 SOUTH, IN SILOAM SPRINGS, EAST OF THE CENTERLINE OF HIGHWAY 59 6.0 METERS, AND EAST 0.85 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040057 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTHEAST CORNER OF BRIDGE	5	14.60	47.9	
MK # 2	NORTHEAST CORNER OF STORM DRAIN	189	5.05	16.6	
MK # 3					

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	SAL1	3-wire elevations based on NGS K31 in Job 090024 by S5112 in July 05.
Ref Mon # 2	NDS1	
Ref Mon # 3	040038	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040057A	Date Monumented 10/6/2004	Monumented By AHTD	County BENTON	Route 412	Job Number: 090196,090268
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	206,966.3940
Easting (M)	172,105.3070
Elevation (M)*	362.016
Northing (SFT)	679,022.2443
Easting (SFT)	564,648.8280
Elevation (SFT)*	1,187.714

Convergence Angle	-1	28	27.0588090
Scale Factor	0.999988525		
Elevation Adjust. Factor	0.9999431911		
Combined Adjust. Factor	0.9999317167		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER OF BRIDGE	223	1.60	5.2
MK # 2	DROP INLET	102	9.90	32.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="SAL1"/> Ref Mon # 2 <input type="text" value="NDS1"/> Ref Mon # 3 <input type="text" value="040038"/>	<input type="text" value="3-wire elevations based on NGS K31 in Job 090024 by S5112 in July 05."/>

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 10 20.6314176
Longitude	94 32 0.2384628
Ellipsoid Height (M):	333.745
Geoid Height (M):	-28.256

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 SOUTH AND STATE HIGHWAY 412, IN SILOAM SPRINGS, GO WEST ON HIGHWAY 412 FOR 0.30 MILES TO THE STATION MARK ON THE RIGHT, 11.0 METERS NORTH OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040057A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040058	Date Monumented 10/6/2004	Monumented By AHTD	County BENTON	Route 59	Job Number: 090196, 090506
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	200,138.7619	
Easting (M)	171,892.5290	
Elevation (M)*	287.513	
Northing (SFT)	656,621.9213	
Easting (SFT)	563,950.7389	
Elevation (SFT)*	943.282	

Convergence Angle	-1	28	27.9209957
Scale Factor	0.999978081		
Elevation Adjust. Factor	0.9999548819		
Combined Adjust. Factor	0.9999329639		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER BRIDGE	209	11.45	37.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SAL1	3-wire elevations based on AHTD GPS# 040057 in Job 090196 ran by S5101 in Sep 05 which is based on NGS K31 in Job 090024 by S5112 in July 05.
Ref Mon # 2 NDS1	
Ref Mon # 3 040038	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 6 39.0101220
Longitude	94 32 1.7201400
Ellipsoid Height (M):	259.225
Geoid Height (M):	-28.297

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE ROUTE 59 IN SILOAM SPRINGS GO SOUTH ON HWY-59 FOR 7.89 KM. (4.90 MI.) TO THE NORTH END OF A BRIDGE OVER THE ILLINOIS RIVER AND THE STATION ON THE LEFT. 50 METERS SOUTH-SOUTHWEST OF THE CENTER OF "OLD GOFORTH ROAD", 6.30 METERS EAST-SOUTHEAST OF THE CENTER OF HWY-59 AND 0.50 METERS WEST-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040058 2004" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	040017A
Geodetic Azimuth	18 18 36
Grid Azimuth	19 47 04

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040059	Date Monumented 8/9/2005	Monumented By AHTD	County BENTON	Route 412	Job Number: 001966, 090069
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	211,361.9285	0.0020	
Easting (M)	197,432.1933	0.0020	
Elevation (M)*	384.204		
Northing (SFT)	693,443.2604		
Easting (SFT)	647,742.1209		
Elevation (SFT)*	1,260.511		

Convergence Angle	-1	18	39.8237079
Scale Factor	0.999996921		
Elevation Adjust. Factor	0.9999397094		
Combined Adjust. Factor	0.9999366306		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	13	3.1664100
Longitude	94	15	11.0693448
Ellipsoid Height:	356.179		
Grid Northing (Meters)	211,361.9280		
Grid Easting (Meters)	197,432.1730		

Location Description			
<p>To reach the station from the Washington and Benton county line on hwy-112 north of Elm Springs, go north on hwy-112 for 0.50 miles to county road 70 also known as "Marchant road" on the left. Go left on Marchant road for 1.40 miles to the station on the right. 6.10 meters west of the center of Marchant road and 1.10 meters east of a witness post. The station mark is a standard 64mm cap stamped "040059 2005" set on top of an iron rod 1.22 meters long and is below the grounds surface.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						040059A
MK # 2						003 21 26
MK # 3						004 40 06

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: 040130A, 040131, 040117-2	<p>SUPERCEDED POSITION BASED ON REF. STATIONS 720036, 720037, 040050, 040051 & AGRONOMY. SUPERCEDED GPS DERIVED ELEV. IS 1260.5421 US SURVEY FEET BASED ON GEOID HT OF -28.035 METERS</p> <p>ELEVATION BASED ON DIGITAL LEVELS IN JAN/FEB 2020 BY S5112 FROM PN:45 FROM JOB #090513 FOR JOB #090069</p>
Ref Mon # 2: ARFS, ARFY	
Ref Mon # 3: MOA2	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040059A	Date Monumented 8/9/2005	Monumented By AHTD	County BENTON	Route 412	Job Number: 001966, 090069
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	211,664.9766	0.0020	
Easting (M)	197,456.9325	0.0020	
Elevation (M)*	390.497		

Northing (SFT)	694,437.5107		
Easting (SFT)	647,823.2860		
Elevation (SFT)*	1,281.155		

Convergence Angle	-1	18	39.4090161
Scale Factor	0.999997450		
Elevation Adjust. Factor	0.9999387221		
Combined Adjust. Factor	0.9999361723		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	13	13.0138932
Longitude	94	15	10.3564152
Ellipsoid Height:	362.464		
Grid Northing (Meters)	211,664.9700		
Grid Easting (Meters)	197,456.9190		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone riser	260	15.10	49.5
MK # 2	Fence corner	280	8.05	26.4
MK # 3	Telephone riser	179	18.85	61.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 040130A, 040131, 040117-2	SUPERCEDED POSITION BASED ON REF. STATIONS 720036, 720037, 040050, 040051 & AGRONOMY. SUPERCEDED GPS DERIVED ELEV. IS 1281.1654 US SURVEY FEET BASED ON GEOID HT OF -28.036 METERS ELEVATION BASED ON DIGITAL LEVELS IN JAN/FEB 2020 BY S5112 FROM PN:45 FROM JOB #090513 FOR JOB #090069
Ref Mon # 2 ARFS, ARFY	
Ref Mon # 3 MOA2	

Vertical Determined By: NONE	Elevation Datum: NONE
Geoid Datum: Geoid 12B	
Latitude	36 13 13.0141164
Longitude	94 15 10.3558824
Ellipsoid Height (M):	362.379 0.0040
Geoid Height (M):	-28.133 0.0040

Location Description
To reach the station from the Washington and Benton county line on hwy-112 north of Elm Springs, go north on hwy-112 for 0.50 miles to county road 70 also known as "Marchant road" on the left. Go left on Marchant road for 1.20 miles to the station on the right. 11.90 meters east of "trails end ranch road", 8.50 meters north of the center of Marchant road and 0.70 Meters south of a witness post. The station mark is a standard 64mm cap stamped "040059A 2005" set on top of an iron rod 1.22 meters long and is below the ground surface.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040061	Date Monumented 8/9/2005	Monumented By AHTD	County BENTON	Route CR70	Job Number: 001966,090286
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	211,885.9979	
Easting (M)	202,870.6770	
Elevation (M)*	353.555	
Northing (SFT)	695,162.6448	
Easting (SFT)	665,584.8795	
Elevation (SFT)*	1,159.956	

Convergence Angle	-1	16	33.4215533
Scale Factor	0.999998050		
Elevation Adjust. Factor	0.9999445187		
Combined Adjust. Factor	0.9999425688		

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Gate post	248	22.60	74.1	
MK # 2	Wooden corner post	017	16.70	54.8	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: 720036, 720037, 040050, 04005	ELEV WAS EST. BY CREW S5110 FROM TBM 916 FROM JOB 001966 IN FEB 11 DURING JOB 090286.
Ref Mon # 2: AGRONOMY	
Ref Mon # 3:	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040061A	Date Monumented 8/9/2005	Monumented By AHTD	County BENTON	Route CR 70	Job Number: 001966,090286
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	211,585.1189	
Easting (M)	202,802.2390	
Elevation (M)*	359.518	
Northing (SFT)	694,175.5109	
Easting (SFT)	665,360.3458	
Elevation (SFT)*	1,179.518	

Convergence Angle	-1	16	34.8595855
Scale Factor	0.999997521		
Elevation Adjust. Factor	0.9999435831		
Combined Adjust. Factor	0.9999411042		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Corner and gate post	171	10.50	34.4
MK # 2	Gate post	090	12.55	41.2
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 720036, 720037, 040050, 04005 Ref Mon # 2 AGRONOMY Ref Mon # 3	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV WAS EST. BY CREW S5110 FROM TBM 916 FROM JOB 001966 IN FEB 11 DURING JOB 090286.</td> </tr> </table>	Comments	ELEV WAS EST. BY CREW S5110 FROM TBM 916 FROM JOB 001966 IN FEB 11 DURING JOB 090286.
Comments			
ELEV WAS EST. BY CREW S5110 FROM TBM 916 FROM JOB 001966 IN FEB 11 DURING JOB 090286.			

Location Description
To reach the station from exit 76 (Wagon Wheel road) on I 540 take "Wagon Wheel road" west for 0.90 miles to county road 70 on the left also known as North 56th street. Go left on CR 70 for 0.30 miles to the station on the right. 12.0 meters north of a gravel drive, 6.70 meters west of the center of CR 70 and 1.20 meters east of a witness post. The station mark is a standard 64mm cap stamped "040061A 2005" set on top of an iron rod 1.22 meters long and is below the ground surface.

AZ Mark Station	040061
Geodetic Azimuth	011 32 17
Grid Azimuth	012 48 52

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040063	Date Monumented 6/17/2008	Monumented By AHTD	County BENTON	Route 540	Job Number: 090260
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	231,281.0101	
Easting (M)	204,126.1480	
Elevation (M)*	383.944	
Northing (SFT)	758,794.4473	
Easting (SFT)	669,703.8706	
Elevation (SFT)*	1,259.655	

Convergence Angle	-1	16	14.1973193
Scale Factor	1.000036796		
Elevation Adjust. Factor	0.9999397504		
Combined Adjust. Factor	0.9999765442		

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

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	3-wire levels ran by CTS from GPS 040044 & 040044A which were est. by NGS 1st order mark on 08 Aug. 08.
Ref Mon # 2 Bentonville 44	
Ref Mon # 3 V 26	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 23 54.1140072
Longitude	94 11 0.8079972
Ellipsoid Height (M):	355.886
Geoid Height (M):	-28.088

Location Description
<p>To reach the station from the junction of I 540 & hwy-72 (exit 88) northeast of Bentonville go north on I 540 for 1.30 miles to the station on the right on top of a small hill about 12 feet above the road surface next to the right of way fence. 57.7 feet northeast of the east edge of the northbound lane and 3.40 feet southwest of a witness post. The station mark is a 2 1/2 inch cap stamped "040063 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>

AZ Mark Station	040063A
Geodetic Azimuth	183 52 17
Grid Azimuth	185 08 31

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040063A	Date Monumented 6/17/2008	Monumented By AHTD	County BENTON	Route 540	Job Number: 090260
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	230,695.3291	
Easting (M)	204,073.4450	
Elevation (M)*	386.669	
Northing (SFT)	756,872.9256	
Easting (SFT)	669,530.9608	
Elevation (SFT)*	1,268.595	

Convergence Angle	-1	16	15.1243516
Scale Factor	1.000035488		
Elevation Adjust. Factor	0.9999393228		
Combined Adjust. Factor	0.9999748086		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 Bentonville 44 Ref Mon # 3 V 26	3-wire levels ran by CTS from GPS 040044 & 040044A which were est. by NGS 1st order mark on 08 Aug. 08.

Location Description	
To reach the station from the junction of I 540 & hwy-72 (exit 88) northeast of Bentonville go north on I 540 for 0.90 miles to the station on the left 44.3 feet southwest of the edge of the pavement of the southbound lane by the right of way fence and 4.30 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "040063A 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040064	Date Monumented 3/31/2009	Monumented By AHTD	County Benton	Route 12	Job Number: 040151
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	213,109.3020	
Easting (M)	230,400.1510	
Elevation (M)*		
Northing (SFT)	699,176.1016	
Easting (SFT)	755,904.4954	
Elevation (SFT)*		

Convergence Angle	-1	5	52.6576703
Scale Factor	1.000001236		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Description			
<p>To reach the station from the junction of highways 12 and 45 just north of Hindsville go west on hwy-12 for 2.60 miles to the station on the right. 32.0 feet north of the center of hwy-12, 25.0 feet east of a field entrance and 6.60 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "040064A 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						040064A
MK # 2						271 29 13
MK # 3						272 35 06

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040064A	Date Monumented 3/31/2009	Monumented By AHTD	County Benton	Route 12	Job Number: 040151
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	213,128.5010	
Easting (M)	229,974.9130	
Elevation (M)*		
Northing (SFT)	699,239.0904	
Easting (SFT)	754,509.3604	
Elevation (SFT)*		

Convergence Angle	-1	6	2.5743369
Scale Factor	1.000001256		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center of north end of a culvert	247	53.95	177.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040065	Date Monumented 12/2/2009	Monumented By AHTD	County Benton	Route 540	Job Number: 012111
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	224,923.7661	
Easting (M)	204,112.4500	
Elevation (M)*	390.026	
Northing (SFT)	737,937.3893	
Easting (SFT)	669,658.9297	
Elevation (SFT)*	1,279.612	

Convergence Angle	-1	16	11.2274942
Scale Factor	1.000023082		
Elevation Adjust. Factor	0.9999387959		
Combined Adjust. Factor	0.9999618765		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center of a twin box culvert	52	10.27	33.7
MK # 2	underground telephone cable marker	5	9.78	32.1
MK # 3	Large green electrical box	220	6.10	20.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 WWED	Digital Levels ran by crew S5101 in December 2009 from GPS mark 040009 which was based on NGS marks Q 310, J 27, K 310, A 27, L 309.
Ref Mon # 2 ARFY	
Ref Mon # 3 040018, 040044	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040066	Date Monumented 6/29/2016	Monumented By AHTD	County BENTON	Route SR-59	Job Number: 090434
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	224,842.3607	0.0040
Easting (M)	179,271.1939	0.0040
Elevation (M)*		
Northing (SFT)	737,670.3117	
Easting (SFT)	588,158.9087	
Elevation (SFT)*		

Convergence Angle	-1	25	50.6476640
Scale Factor	1.000021701		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NE COR OF BRICK CHURCH	251	56.60	185.7
MK # 2	SERVICE POLE	332	42.50	139.4
MK # 3	GAS METER	263	36.70	120.4

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 2</td> <td>CTA1</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SAL5</td> </tr> </table>	Ref Mon # 1	ARFY	Ref Mon # 2	CTA1	Ref Mon # 3	SAL5	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARFY							
Ref Mon # 2	CTA1							
Ref Mon # 3	SAL5							
Comments								

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 12A

Latitude 36 20 6.2860668

Longitude 94 27 31.4442036

Ellipsoid Height (M): 352.422 0.0080

Geoid Height (M): -28.138 0.0080

Location Description

FROM JCT OF SR-59 & SR-102 IN DECATUR, GO S ON SR-59 0.05 MI, TURN L & GO E ON CHURCH ST 0.1 MI TO STA ON R, JUST PAST THE CHURCH. 18' S OF C/L OF CHURCH ST. STA IS A 2 1/2" ALUMCAP STAMPED "040066 2016" SET BELLOW SURFACE.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040066A	Date Monumented 6/29/2016	Monumented By AHTD	County BENTON	Route SR-59	Job Number: 090434
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	224,367.7553	0.0040	
Easting (M)	179,292.5619	0.0040	
Elevation (M)*			
Northing (SFT)	736,113.2105		
Easting (SFT)	588,229.0135		
Elevation (SFT)*			

Convergence Angle	-1	25	49.8728027
Scale Factor	1.000020727		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	PHONE BOX	340	57.20	187.7	040066
MK # 2	DOLLAR GENERAL SIGN	153	24.00	78.7	
MK # 3	LIGHT POLE	121	45.00	147.6	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 CTA1 Ref Mon # 3 SAL5	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040102	Date Monumented 1/22/2001	Monumented By Aerial Data Service	County BENTON	Route CR 542	Job Number: 009969
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 234,530.1231		Latitude 36 25 28.6192848
Easting (M) 189,558.4938		Longitude 94 20 48.3305316
Elevation (M)* 397.991		Ellipsoid Height (M): 370.081
		Geoid Height (M): -28.056

Northing (SFT) 769,454.2455	Easting (SFT) 621,909.8251	Location Description
Elevation (SFT)* 1,305.742		<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO WEST ON STATE ON STATE HIGHWAY 72 AND STATE HIGHWAY 279 FOR 0.72 KM (0.49 MI) TO THE JUNCTION OF STATE HIGHWAY 279 SOUTH ON THE LEFT AND HIWASSIE ROAD (OLD COUNTY ROAD 468) ON THE RIGHT, GO LEFT, SOUTH ON STATE HIGHWAY 279 FOR 0.32 KM (0.20 MI) TO THE JUNCTION ON DICKSON ROAD (OLD COUNTY ROAD 542) ON THE RIGHT, GO RIGHT WEST FOR 1.69 KM (1.05 MI) TO THE JUNCTION OF A PIPE LINE AND THE STATION ON THE RIGHT. THE STATION IS A AERIAL DATA SERVICE 37mm CAP STAMPED "102" SET ON TOP OF AN IRON ROD SET FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 409.081 METERS.</p>
Convergence Angle -1 21 56.0761697		
Scale Factor 1.000043418		
Elevation Adjust. Factor 0.9999375461		
Combined Adjust. Factor 0.9999809614		

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	184	10.97	36.0	AZ Mark Station 040102A
MK # 2	NONE				Geodetic Azimuth 188 40 58.78465
MK # 3	NONE				Grid Azimuth 190 02 54.84613

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 V 26</p> <p>Ref Mon # 2 CASSPORT</p> <p>Ref Mon # 3 FLINT</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040102A	Date Monumented 1/22/2001	Monumented By AHTD	County BENTON	Route CR 542	Job Number: 009969
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	234,127.3206	
Easting (M)	189,487.1167	
Elevation (M)*	403.422	
Northing (SFT)	768,132.7177	
Easting (SFT)	621,675.6487	
Elevation (SFT)*	1,323.561	

Convergence Angle	-1	21	57.5186681
Scale Factor	1.000042486		
Elevation Adjust. Factor	0.9999366939		
Combined Adjust. Factor	0.9999791772		

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

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO WEST ON STATE ON STATE HIGHWAY 72 AND STATE HIGHWAY 279 FOR 0.72 KM (0.49 MI) TO THE JUNCTION OF STATE HIGHWAY 279 SOUTH ON THE LEFT AND HIWASSIE ROAD (OLD COUNTY ROAD 468) ON THE RIGHT, GO SOUTH, ON STATE HIGHWAY 279 FOR 0.32 KM (0.20 MI) TO THE JUNCTION OF DICKSON ROAD (OLD COUNTY ROAD 542) ON THE RIGHT, GO RIGHT WEST ON DICKSON ROAD FOR 2.10 KM (1.30 MI) TO THE JUNCTION OF A GRAVEL DRIVEWAY AND THE STATION ON THE LEFT. THE STATION IS A STANDARD 64mm CAP STAMPED "040102A 2001" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 409.081 METERS.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST	303	2.07	6.8
MK # 2	CORNER POST	185	11.10	36.4
MK # 3	TELEPHONE JUNCTION BOX	230	12.60	41.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 V 26 Ref Mon # 2 CASSPORT Ref Mon # 3 FLINT	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040103	Date Monumented 10/4/2010	Monumented By AHTD	County BENTON	Route 16	Job Number: 090282
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	202,848.1159	
Easting (M)	176,892.9130	
Elevation (M)*	336.139	
Northing (SFT)	665,510.8602	
Easting (SFT)	580,356.1654	
Elevation (SFT)*	1,102.816	

Convergence Angle	-1	26	33.2017966
Scale Factor	0.999982277		
Elevation Adjust. Factor	0.9999472516		
Combined Adjust. Factor	0.9999295295		

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	16" CHERRY TREE	152	14.20	46.6	
MK # 2	PP WITH GY	267	4.51	14.8	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 OKTU Ref Mon # 2 WWED Ref Mon # 3 CTA1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATIONS BY 3 WIRE DIGITAL LEVELS FROM 3 SEM 1968 AND CHECKED USING CHSLD SQ ON THE N/W COR. OF BRIDGE OVER THE ILLINOIS RIVER. CREW S5112 ON 10-5-2010</td> </tr> </table>	Comments	ELEVATIONS BY 3 WIRE DIGITAL LEVELS FROM 3 SEM 1968 AND CHECKED USING CHSLD SQ ON THE N/W COR. OF BRIDGE OVER THE ILLINOIS RIVER. CREW S5112 ON 10-5-2010
Comments			
ELEVATIONS BY 3 WIRE DIGITAL LEVELS FROM 3 SEM 1968 AND CHECKED USING CHSLD SQ ON THE N/W COR. OF BRIDGE OVER THE ILLINOIS RIVER. CREW S5112 ON 10-5-2010			

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 8 11.0142852
Longitude	94 28 44.5739448
Ellipsoid Height (M):	307.919
Geoid Height (M):	-28.223

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 16, IN SILOAM SPRINGS, GO EAST ON 16 FOR 4.3 MILES TO THE MARK ON THE RIGHT, WEST 37 FEET OF THE CENTERLINE OF THE HIGHWAY. IT IS 65 FEET NORTH OF A GRAVEL DRIVE. IT IS 2 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040103 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040104	Date Monumented 2/9/2012	Monumented By AHTD	County BENTON	Route N/A	Job Number: 012153
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	215,477.1559	0.0015			
Easting (M)	209,564.1122	0.0013			
Elevation (M)*	412.717				
Northing (SFT)	706,944.6356				
Easting (SFT)	687,544.9248				
Elevation (SFT)*	1,354.057				

Convergence Angle	-1	13	59.3037330
Scale Factor	1.000004778		
Elevation Adjust. Factor	0.9999352354		
Combined Adjust. Factor	0.9999400131		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	79	38.40	126.0
MK # 2	COMBINATION POLE	24	21.64	71.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	3RD ORDER Combination of 3-Wire & Digital Levels ran from NGS J 309 and V 26 by CTA & S5112 in Job 012126-Eastern North-South Corridor (Fayetteville-Rogers)P.E. in March 2012.
Ref Mon # 2	
Ref Mon # 3	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040104A	Date Monumented 2/9/2012	Monumented By AHTD	County BENTON	Route N/A	Job Number: 012153
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	215,529.9604	
Easting (M)	209,023.4980	
Elevation (M)*	416.101	
Northing (SFT)	707,117.8784	
Easting (SFT)	685,771.2597	
Elevation (SFT)*	1,365.157	

Convergence Angle	-1	14	11.9287974
Scale Factor	1.000004854		
Elevation Adjust. Factor	0.9999347045		
Combined Adjust. Factor	0.9999395582		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH A GUY	295	6.34	20.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3RD ORDER Combination of 3-Wire & Digital Levels ran from NGS J 309 and V 26 by CTA & S5112 in Job 012126-Eastern North-South Corridor (Fayetteville-Rogers)P.E. in March 2012.</td> </tr> </table>	Comments	3RD ORDER Combination of 3-Wire & Digital Levels ran from NGS J 309 and V 26 by CTA & S5112 in Job 012126-Eastern North-South Corridor (Fayetteville-Rogers)P.E. in March 2012.
Comments			
3RD ORDER Combination of 3-Wire & Digital Levels ran from NGS J 309 and V 26 by CTA & S5112 in Job 012126-Eastern North-South Corridor (Fayetteville-Rogers)P.E. in March 2012.			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND STATE HIGHWAY 71B, IN LOWELL, GO NORTH ON 71B 0.25 MILES TO MCCLURE AVE AND TURN RIGHT (EAST) AND GO 0.6 MILES TO THE STATION MARK ON THE LEFT, NORTH 18.7 FEET OF THE CENTERLINE OF THE STREET, 7.3 FEET SOUTH OF A 6 FOOT WOOD FENCE, 2.0 SOUTH OF THE SOUTH EDGE OF A CONCRETE SIDEWALK. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040104A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Vertical Determined By:	See Comments
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 09
Latitude	36 15 26.7171156
Longitude	94 7 30.6882084
Ellipsoid Height (M):	388.038
Geoid Height (M):	-28.069

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040105	Date Monumented 2/9/2012	Monumented By AHTD	County BENTON	Route N/A	Job Number: 012153
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	218,331.0247	
Easting (M)	212,389.6242	
Elevation (M)*	347.512	
Northing (SFT)	716,307.7035	
Easting (SFT)	696,814.9587	
Elevation (SFT)*	1,140.130	

Convergence Angle	-1	12	54.8681642
Scale Factor	1.000010265		
Elevation Adjust. Factor	0.9999454670		
Combined Adjust. Factor	0.9999557314		

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

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71B AND STATE HIGHWAY 94, IN ROGERS, GO SOUTH ON STATE HIGHWAY 71B 2.0 MILES AND TURN LEFT (EAST) ON PLEASANT GROVE ROAD AND GO 0.15 MILES AND TURN RIGHT (SOUTH) ON HONEYSUCKLE STREET AND GO 0.6 MILES AND TURN LEFT ONTO DOGWOOD AVE AND GO 0.8 MILES TO A CROSS ROAD AND CONTINUE ON STRAIGHT, ON CROSS HOLLOW ROAD 1.5 MILES TO A T INTERSECTION AND TURN LEFT ON STONEY POINT ROAD AND GO 0.1 MILES TO THE STATION MARK ON THE RIGHT, 17 FEET NORTHEAST OF THE CENTERLINE OF THE ROAD, AND SOUTHWEST 29 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040105 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <p>ELEV. ESTABLISHED BY 3RD ORDER COMBINATION OF 3-WIRE & DIGITAL LEVELS FROM NGS L 309 BY CTA IN MAY 2012.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040105A	Date Monumented 2/9/2012	Monumented By AHTD	County BENTON	Route N/A	Job Number: 012153
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	218,581.7837	
Easting (M)	212,161.9462	
Elevation (M)*	351.951	
Northing (SFT)	717,130.4020	
Easting (SFT)	696,067.9852	
Elevation (SFT)*	1,154.691	

Convergence Angle	-1	13	0.2999296
Scale Factor	1.000010738		
Elevation Adjust. Factor	0.9999447705		
Combined Adjust. Factor	0.9999555079		

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

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71B AND STATE HIGHWAY 94, IN ROGERS, GO SOUTH ON STATE HIGHWAY 71B 2.0 MILES AND TURN LEFT (EAST) ON PLEASANT GROVE ROAD AND GO 0.15 MILES AND TURN RIGHT (SOUTH) ON HONEYSUCKLE STREET AND GO 0.6 MILES AND TURN LEFT ONTO DOGWOOD AVE AND GO 0.8 MILES TO A CROSS ROAD AND CONTINUE ON STRAIGHT, ON CROSS HOLLOW ROAD 1.5 MILES TO A T INTERSECTION AND TURN LEFT ON STONEY POINT ROAD AND GO 0.3 MILES TO THE STATION MARK ON THE RIGHT, 22.6 FEET NORTHEAST OF THE CENTERLINE OF THE ROAD, AND SOUTHWEST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040105A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1		<p>ELEV. ESTABLISHED BY 3RD ORDER COMBINATION OF 3-WIRE & DIGITAL LEVELS FROM NGS L 309 BY CTA IN MAY 2012.</p>
Ref Mon # 2		
Ref Mon # 3		

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040106	Date Monumented 2/9/2012	Monumented By AHTD	County BENTON	Route N/A	Job Number: 012153
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	218,326.3144	
Easting (M)	209,144.4199	
Elevation (M)*	406.529	
Northing (SFT)	716,292.2498	
Easting (SFT)	686,167.9843	
Elevation (SFT)*	1,333.755	

Convergence Angle	-1	14	10.5171140
Scale Factor	1.000010123		
Elevation Adjust. Factor	0.9999362064		
Combined Adjust. Factor	0.9999463287		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	270	30.17	99.0
MK # 2	COMBINATION POLE W/LIGHT	95	34.75	114.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. ESTABLISHED BY 3RD ORDER COMBINATION OF 3-WIRE & DIGITAL LEVELS FROM NGS L 309 BY CTA IN MAY 2012.
Ref Mon # 2	
Ref Mon # 3	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040106A	Date Monumented 2/9/2012	Monumented By AHTD	County BENTON	Route N/A	Job Number: 012153
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	218,283.5707	
Easting (M)	209,603.3720	
Elevation (M)*	409.580	
Northing (SFT)	716,152.0149	
Easting (SFT)	687,673.7296	
Elevation (SFT)*	1,343.762	

Convergence Angle	-1	13	59.7967759
Scale Factor	1.000010060		
Elevation Adjust. Factor	0.9999357278		
Combined Adjust. Factor	0.9999457871		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/LIGHT AND A GUY	73	18.59	61.0
MK # 2	GUY POLE W/2 GUYS	107	19.72	64.7
MK # 3	TELEPHONE BOX	121	10.51	34.5

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. ESTABLISHED BY 3RD ORDER COMBINATION OF 3-WIRE & DIGITAL LEVELS FROM NGS L 309 BY CTA IN MAY 2012.</td> </tr> </table>	Comments	ELEV. ESTABLISHED BY 3RD ORDER COMBINATION OF 3-WIRE & DIGITAL LEVELS FROM NGS L 309 BY CTA IN MAY 2012.
Comments			
ELEV. ESTABLISHED BY 3RD ORDER COMBINATION OF 3-WIRE & DIGITAL LEVELS FROM NGS L 309 BY CTA IN MAY 2012.			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 94 AND STATE HIGHWAY 71B, IN ROGERS, GO SOUTH ON 71B 2.0 MILES AND TURN LEFT (EAST) ON EAST PLEASANT GROVE ROAD AND GO 0.6 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 30.7 FEET OF THE CENTERLINE OF THE STREET, 4 FEET SOUTH OF THE SOUTH EDGE OF THE THE SIDE WALK, WEST 42 FEET OF A GRAVEL DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040105A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Vertical Determined By:	See Comments		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	36	16	56.4364056
Longitude	94	7	9.8391972
Ellipsoid Height (M):	381.491		
Geoid Height (M):	-28.084		

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040107	Date Monumented 2/9/2012	Monumented By AHTD	County BENTON	Route N/A	Job Number: 012153
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	221,518.3103	
Easting (M)	209,776.7942	
Elevation (M)*	412.445	
Northing (SFT)	726,764.6564	
Easting (SFT)	688,242.6990	
Elevation (SFT)*	1,353.165	

Convergence Angle	-1	13	57.3765208
Scale Factor	1.000016395		
Elevation Adjust. Factor	0.9999352781		
Combined Adjust. Factor	0.9999516720		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS M 309 BY CTA IN MAY 2012.</td> </tr> </table>	Comments	ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS M 309 BY CTA IN MAY 2012.
Comments			
ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS M 309 BY CTA IN MAY 2012.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 94 (EAST NEW HOPE ROAD) AND STATE HIGHWAY 71B (SOUTH 8TH STREET), IN ROGERS, GO EAST ON 94 0.45 MILES TO MARK ON THE LEFT. 5.2 FEET SOUTH OF SOUTH EDGE OF SIDEWALK, 251 FEET WEST OF THE CENTERLINE OF 1ST STREET. 35.0 FEET NORTH OF THE CENTERLINE OF HIGHWAY 94. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040107 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	040107A
Geodetic Azimuth	
Grid Azimuth	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040107A	Date Monumented 2/9/2012	Monumented By AHTD	County BENTON	Route N/A	Job Number: 012153
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	221,555.3187	
Easting (M)	209,294.2012	
Elevation (M)*	405.796	
Northing (SFT)	726,886.0748	
Easting (SFT)	686,659.3918	
Elevation (SFT)*	1,331.350	

Convergence Angle	-1	14	8.6491983
Scale Factor	1.000016449		
Elevation Adjust. Factor	0.9999363214		
Combined Adjust. Factor	0.9999527693		

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

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WALMART SIGH POST	319	15.39	50.5	040107
MK # 2	HEADWALL	87	11.09	36.4	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS M 309 BY CTA IN MAY 2012.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040108	Date Monumented 2/9/2012	Monumented By AHTD	County BENTON	Route N/A	Job Number: 012153
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	221,422.2675	
Easting (M)	212,489.0491	
Elevation (M)*	420.616	
Northing (SFT)	726,449.5560	
Easting (SFT)	697,141.1553	
Elevation (SFT)*	1,379.973	

Convergence Angle	-1	12	54.0787836
Scale Factor	1.000016319		
Elevation Adjust. Factor	0.9999339959		
Combined Adjust. Factor	0.9999503138		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF GATE	61	21.03	69.0
MK # 2	POWER POLE	46	11.89	39.0
MK # 3	FENCE CORNER	81	18.10	59.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS M 309 BY CTA IN MAY 2012.

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 94 (EAST NEW HOPE ROAD) AND STATE HIGHWAY 71B (SOUTH 8TH STREET), IN ROGERS, GO EAST ON HIGHWAY 94 2.05 MILES TO BLUE HILL ROAD AND TURN LEFT AND GO 0.1 MILES TO THE MARK ON LEFT. 21.0 FEET SOUTHWEST FROM THE CENTERLINE OF BLUE HILL ROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040108 2012" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040108A	Date Monumented 2/9/2012	Monumented By AHTD	County BENTON	Route N/A	Job Number: 012153
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	221,453.8960	
Easting (M)	212,000.8697	
Elevation (M)*	422.825	
Northing (SFT)	726,553.3238	
Easting (SFT)	695,539.5200	
Elevation (SFT)*	1,387.219	

Convergence Angle	-1	13	5.4788292
Scale Factor	1.000016362		
Elevation Adjust. Factor	0.9999336494		
Combined Adjust. Factor	0.9999500103		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	81	12.71	41.7
MK # 2	GAS METER	66	18.51	60.7
MK # 3	GAS METER	293	15.15	49.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS M 309 BY CTA IN MAY 2012.

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 94 (EAST NEW HOPE ROAD) AND STATE HIGHWAY 71B (SOUTH 8TH STREET), IN ROGERS, GO EAST ON HIGHWAY 94 1.85 MILES TO THE MARK ON LEFT. 17.0 FEET NORTH FROM THE CENTERLINE OF HIGHWAY 94. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040108A 2012" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040109	Date Monumented 2/9/2012	Monumented By AHTD	County BENTON	Route N/A	Job Number: 012153
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	225,072.7619	
Easting (M)	212,603.1862	
Elevation (M)*	348.801	
Northing (SFT)	738,426.2197	
Easting (SFT)	697,515.6201	
Elevation (SFT)*	1,144.358	

Convergence Angle	-1	12	53.2222886
Scale Factor	1.000023775		
Elevation Adjust. Factor	0.9999452647		
Combined Adjust. Factor	0.9999690384		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	87	25.49	83.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS N 309 AND NGS ROGERS 2 BY CTA IN MAY 2012.
Ref Mon # 2	
Ref Mon # 3	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040109A	Date Monumented 2/9/2012	Monumented By AHTD	County BENTON	Route N/A	Job Number: 012153
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	225,074.4985	
Easting (M)	212,096.2040	
Elevation (M)*	361.718	
Northing (SFT)	738,431.9172	
Easting (SFT)	695,852.2960	
Elevation (SFT)*	1,186.737	

Convergence Angle	-1	13	5.0508792
Scale Factor	1.000023756		
Elevation Adjust. Factor	0.9999432379		
Combined Adjust. Factor	0.9999669925		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	67	7.77	25.5
MK # 2	GUY WIRE	44	5.67	18.6
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS N 309 AND NGS ROGERS 2 BY CTA IN MAY 2012.</td> </tr> </table>	Comments	ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS N 309 AND NGS ROGERS 2 BY CTA IN MAY 2012.
Comments			
ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS N 309 AND NGS ROGERS 2 BY CTA IN MAY 2012.			

Location Description
TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 62B (NORTH 2ND STREET) AND STATE HIGHWAY 12 (EAST LOCUST STREET), IN ROGERS, GO EAST ON HIGHWAY 12 1.65 MILES TO THE MARK ON LEFT, 40.5 FEET NORTH OF CENTER OF HIGHWAY 12, EAST 23 FEET OF THE CENTERLINE OF PRAIRIE CREEK ROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040109A 2012" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	040109
Geodetic Azimuth	
Grid Azimuth	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040110	Date Monumented 2/9/2012	Monumented By AHTD	County BENTON	Route N/A	Job Number: 012153
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	224,757.5100	
Easting (M)	209,733.4045	
Elevation (M)*	409.771	
Northing (SFT)	737,391.9307	
Easting (SFT)	688,100.3446	
Elevation (SFT)*	1,344.392	

Convergence Angle	-1	14	0.0146390
Scale Factor	1.000022991		
Elevation Adjust. Factor	0.9999356976		
Combined Adjust. Factor	0.9999586872		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	284	8.59	28.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS N 309 AND NGS ROGERS 2 BY CTA IN MAY 2012.</td> </tr> </table>	Comments	ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS N 309 AND NGS ROGERS 2 BY CTA IN MAY 2012.
Comments			
ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS N 309 AND NGS ROGERS 2 BY CTA IN MAY 2012.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAYS 94,71B, 12 EAST AND 62B (WALNUT STREET) IN ROGERS, GO EAST ON HIGHWAY 62B (WALNUT STREET) 0.3 MILES TO NORTH 4TH STREET,TURN LEFT (NORTH) AND GO 0.5 MILES TO WEST OLIVE STREET, TURN LEFT (WEST) AND GO SOUTH 0.6 MILES TO THE MARK ON RIGHT, 21.5 FEET NORTH OF CENTER OF NORTH OLIVE STREET.THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040110 2012" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	040110A
Geodetic Azimuth	
Grid Azimuth	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040110A	Date Monumented 2/9/2012	Monumented By AHTD	County BENTON	Route N/A	Job Number: 012153
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	224,772.8675	
Easting (M)	209,209.3389	
Elevation (M)*	405.971	
Northing (SFT)	737,442.3161	
Easting (SFT)	686,380.9727	
Elevation (SFT)*	1,331.923	

Convergence Angle	-1	14	12.2480463
Scale Factor	1.000023000		
Elevation Adjust. Factor	0.9999362940		
Combined Adjust. Factor	0.9999592925		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	255	2.19	7.2
MK # 2	ONE STORY BRICK FRAME	123	21.49	70.5
MK # 3	LIGHT POLE	205	2.83	9.3

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS N 309 AND NGS ROGERS 2 BY CTA IN MAY 2012.</td> </tr> </table>	Comments	ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS N 309 AND NGS ROGERS 2 BY CTA IN MAY 2012.
Comments			
ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS N 309 AND NGS ROGERS 2 BY CTA IN MAY 2012.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAYS 94, 71B, 12 EAST AND 62B (WALNUT STREET) IN ROGERS, GO EAST ON HIGHWAY 62B (WALNUT STREET) 0.3 MILES TO NORTH 4TH STREET, TURN LEFT (NORTH) AND GO 0.5 MILES TO WEST OLIVE STREET, TURN LEFT (WEST) AND GO SOUTH 0.3 MILES TO THE MARK ON LEFT IN SOUTH EAST CORNER OF INTERSECTION, 62.5 FEET EAST OF CENTER OF HIGHWAY 94 (NORTH 8TH STREET), 33.5 FEET SOUTH OF WEST OLIVE STREET, 20.2 FEET WEST OF THE CENTER LINE OF AN ASPHALT DRIVE. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040110A 2012" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040111	Date Monumented 2/9/2012	Monumented By AHTD	County BENTON	Route N/A	Job Number: 012153
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	227,611.9382	
Easting (M)	211,145.6516	
Elevation (M)*	415.715	
Northing (SFT)	746,756.8339	
Easting (SFT)	692,733.6920	
Elevation (SFT)*	1,363.893	

Convergence Angle	-1	13	28.4922985
Scale Factor	1.000029087		
Elevation Adjust. Factor	0.9999347650		
Combined Adjust. Factor	0.9999638501		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	37	18.53	60.8
MK # 2	FENCE CORNER	91	17.59	57.7
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS R 26 BY CTA IN MAY 2012.</td> </tr> </table>	Comments	ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS R 26 BY CTA IN MAY 2012.
Comments			
ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS R 26 BY CTA IN MAY 2012.			

Location Description
TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAYS 62,94 AND 12, IN ROGERS, GO EAST ON HIGHWAY 62 FOR 1.1 MILES TO NORTH ARKANSAS STREET, TURN RIGHT(EAST), CROSS THE RAIL ROAD TRACKS, TURN RIGHT (SOUTH) AND GO 0.1 MILES TO THE MARK ON RIGHT, EAST 26.5 FEET OF THE NEAREST RAIL, 28.2 FEET WEST OF CENTER OF THE STREET, WEST 50.0 FEET FROM A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040111 2012" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040111A	Date Monumented 2/9/2012	Monumented By AHTD	County BENTON	Route N/A	Job Number: 012153
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	227,210.0759	
Easting (M)	210,854.3807	
Elevation (M)*	414.767	
Northing (SFT)	745,438.3907	
Easting (SFT)	691,778.0807	
Elevation (SFT)*	1,360.781	

Convergence Angle	-1	13	35.0886947
Scale Factor	1.000028212		
Elevation Adjust. Factor	0.9999349138		
Combined Adjust. Factor	0.9999631240		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	18	14.02	46.0
MK # 2	COMBINATION POLE	353	27.03	88.7
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS R 26 BY CTA IN MAY 2012.</td> </tr> </table>	Comments	ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS R 26 BY CTA IN MAY 2012.
Comments			
ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS R 26 BY CTA IN MAY 2012.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAYS 62,94 AND 12, IN ROGERS, GO EAST ON HIGHWAY 62 FOR 1.1 MILES TO NORTH ARKANSAS STREET, TURN RIGHT AND CROSS THE RAIL ROAD TRACKS TURN RIGHT (SOUTH) AND GO 0.35 MILES TO THE MARK ON LEFT, 24 FEET EAST OF CENTER OF THE STREET, WEST 1.50 FEET FROM A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040111A 2012" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Vertical Determined By:	See Comments
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 09
Latitude	36 21 46.8348984
Longitude	94 6 27.3780900
Ellipsoid Height (M):	386.611
Geoid Height (M):	-28.122

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040112	Date Monumented 7/29/2013	Monumented By AHTD	County BENTON	Route RDOCK	Job Number: 090347,090402
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	217,657.0774	0.0030			
Easting (M)	198,351.1776	0.0030			
Elevation (M)*	380.254				
Northing (SFT)	714,096.5948				
Easting (SFT)	650,757.1552				
Elevation (SFT)*	1,247.549				

Convergence Angle	-1	18	21.7617165
Scale Factor	1.000008391		
Elevation Adjust. Factor	0.9999403293		
Combined Adjust. Factor	0.9999487198		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GATE POST	138	1.74	5.7
MK # 2	TELEPHONE RISER	96	6.49	21.3
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>SAL5</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MOCA</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARHR</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	SAL5	Ref Mon # 2	MOCA	Ref Mon # 3	ARHR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation by S5112 in August of 2013 for job #'s 090347 & 090402 using digital levels from AHTD GPS #040049A. Elevation on GPS #040049A based on 3-Wire levels by B&F Engineering from NGS 1st Order BM's V 26 & J 309 for Job #001966 (Springdale Bypass) in November of 2004. S5112 checked into USGS 3rd Order BM's "12 CLC 1968" & "UE 11 B" as a check and missed "12 CLC 1968" by +0.01' & "UE 11 B" by -0.006'. **Note:Elevation from Digital levels used as a constraint in the final static adjustment.</td> </tr> </table>	Comments	Elevation by S5112 in August of 2013 for job #'s 090347 & 090402 using digital levels from AHTD GPS #040049A. Elevation on GPS #040049A based on 3-Wire levels by B&F Engineering from NGS 1st Order BM's V 26 & J 309 for Job #001966 (Springdale Bypass) in November of 2004. S5112 checked into USGS 3rd Order BM's "12 CLC 1968" & "UE 11 B" as a check and missed "12 CLC 1968" by +0.01' & "UE 11 B" by -0.006'. **Note:Elevation from Digital levels used as a constraint in the final static adjustment.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	SAL5										
Ref Mon # 2	MOCA										
Ref Mon # 3	ARHR										
Comments											
Elevation by S5112 in August of 2013 for job #'s 090347 & 090402 using digital levels from AHTD GPS #040049A. Elevation on GPS #040049A based on 3-Wire levels by B&F Engineering from NGS 1st Order BM's V 26 & J 309 for Job #001966 (Springdale Bypass) in November of 2004. S5112 checked into USGS 3rd Order BM's "12 CLC 1968" & "UE 11 B" as a check and missed "12 CLC 1968" by +0.01' & "UE 11 B" by -0.006'. **Note:Elevation from Digital levels used as a constraint in the final static adjustment.											

Location Description
<p>TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 264 (HEALING SPRINGS RD) AND STATE HIGHWAY 112 (N MAIN STREET), IN CAVE SPRINGS, GO EAST ON HIGHWAY 264 0.85 MILES TO MURDOCK ROAD AND TURN RIGHT (NORTH) AND GO 0.75 MILES TO THE MARK ON THE RIGHT, SOUTH 18 FEET OF THE CENTERLINE OF THE ROAD AND NORTH 3.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040112 2013" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040112A	Date Monumented 7/29/2013	Monumented By AHTD	County BENTON	Route RDOCK	Job Number: 090347,090402
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	217,117.3805	0.0020			
Easting (M)	198,136.7856	0.0020			
Elevation (M)*	374.524				
Northing (SFT)	712,325.9392				
Easting (SFT)	650,053.7708				
Elevation (SFT)*	1,228.752				

Convergence Angle	-1	18	26.4717875
Scale Factor	1.000007363		
Elevation Adjust. Factor	0.9999412284		
Combined Adjust. Factor	0.9999485909		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	77	11.86	38.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SAL5 Ref Mon # 2 MOCA Ref Mon # 3 ARHR	Elevation by S5112 in August of 2013 for job #'s 090347 & 090402 using digital levels from AHTD GPS #040049A. Elevation on GPS #040049A based on 3-Wire levels by B&F Engineering from NGS 1st Order BM's V 26 & J 309 for Job #001966 (Springdale Bypass) in November of 2004. S5112 checked into USGS 3rd Order BM's "12 CLC 1968" & "UE 11 B" as a check and missed "12 CLC 1968" by +0.01' & "UE 11 B" by -0.006'. **Note:Elevation from Digital levels used as a constraint in the final static adjustment.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040113	Date Monumented 7/24/2014	Monumented By AHTD	County BENTON	Route CR58	Job Number: BR0405
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	208,210.2117	0.0040			
Easting (M)	189,673.9862	0.0040			
Elevation (M)*					
Northing (SFT)	683,103.0029				
Easting (SFT)	622,288.7364				
Elevation (SFT)*					

Convergence Angle	-1	21	38.7792107
Scale Factor	0.999991268		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WATER WELL	24	11.46	37.6	720061
MK # 2	SERVICE POLE	313	16.15	53.0	
MK # 3	30" CATALPA TREE	261	16.55	54.3	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 MOA2 Ref Mon # 3 CTA1	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040114	Date Monumented 11/18/2015	Monumented By AHTD	County BENTON	Route 94	Job Number: O109D22,090431
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	233,086.0797	0.0020
Easting (M)	209,842.7256	0.0020
Elevation (M)*		
Northing (SFT)	764,716.5798	
Easting (SFT)	688,459.0089	
Elevation (SFT)*		

Convergence Angle	-1	14	1.6488421
Scale Factor	1.000041158		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	S5112 PERFORMED SIMULTANEOUS STATIC SESSIONS ON AHTD GPS #s 040114, 040114A & NGS 1ST ORDER BM V 26 IN NOV. 2015. FINAL GPS ELEVATIONS WERE DERIVED FROM CONSTRAINING ORHTOMETRIC HTS. ON CORS ARFY, ARHR & ON NGS BM V 26.
Ref Mon # 2 ARHR	
Ref Mon # 3 CTA1	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	36 24 56.7109008
Longitude	94 7 13.0219932
Ellipsoid Height (M):	326.907 0.0100
Geoid Height (M):	-28.181 0.0100

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 94 AND STATE HIGHWAY 72, SOUTH OF PEA RIDGE, GO SOUTH ON HIGHWAY 94 FOR 1.8 MILES TO THE MARK ON THE RIGHT, WEST 21.5 FEET OF THE CENTERLINE OF THE HIGHWAY, EAST 39.9 FEET OF A 2 RAIL WOOD FENCE AND SOUTH 69.7 FEET OF THE CENTERLINE OF A CONCRETE DRIVEWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 040114" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040114A	Date Monumented 11/18/2015	Monumented By AHTD	County BENTON	Route 94	Job Number: O109D22,090431
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	233,752.9754 0.0020
Easting (M)	209,956.8570 0.0020
Elevation (M)*	
Northing (SFT)	766,904.5535
Easting (SFT)	688,833.4550
Elevation (SFT)*	

Convergence Angle	-1	13	59.3190191
Scale Factor	1.000042693		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PIPE FENCE CORNER	319	26.90	88.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	S5112 PERFORMED SIMULTANEOUS STATIC SESSIONS ON AHTD GPS #s 040114, 040114A & NGS 1ST ORDER BM V 26 IN NOV. 2015. FINAL GPS ELEVATIONS WERE DERIVED FROM CONSTRAINING ORHTOMETRIC HTS. ON CORS ARFY, ARHR & ON NGS BM V 26.
Ref Mon # 2 ARHR	
Ref Mon # 3 CTA1	

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 94 AND STATE HIGHWAY 72, SOUTH OF PEA RIDGE, GO SOUTH ON HIGHWAY 94 FOR 1.4 MILES TO THE MARK ON THE RIGHT, WEST 23.3 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 40 FEET OF THE CENTERLINE OF SUGAR CREEK ROAD. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 040114A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

AZ Mark Station	040114
Geodetic Azimuth	
Grid Azimuth	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040115	Date Monumented 12/29/2015	Monumented By AHTD	County BENTON	Route 59	Job Number: 10D09, B191, 090434
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	226,715.1147	0.0030			
Easting (M)	180,514.0597	0.0030			
Elevation (M)*					
Northing (SFT)	743,814.5055				
Easting (SFT)	592,236.5442				
Elevation (SFT)*					

Convergence Angle	-1	25	22.7427821
Scale Factor	1.000025671		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UNDERGROUND CABLE MARKER	210	58.20	190.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	
Ref Mon # 2 CTA1	
Ref Mon # 3 SAL5	

Vertical Determined By: GPS - Unknown Quality	
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	36 21 8.0267256
Longitude	94 26 43.4893596
Ellipsoid Height (M):	331.667 0.0050
Geoid Height (M):	-28.122 0.0050

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59N AND STATE HIGHWAY 102W, IN DECATUR, GO NORTH ON STATE HIGHWAY 59 FOR 1.3 MILES TO THE MARK ON THE RIGHT, EAST 30.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 12.4 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 040115" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040115A	Date Monumented 12/29/2015	Monumented By AHTD	County BENTON	Route 59	Job Number: 10D09, B191, 090434
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	227,151.6008	0.0030			
Easting (M)	180,875.2377	0.0030			
Elevation (M)*					
Northing (SFT)	745,246.5436				
Easting (SFT)	593,421.5090				
Elevation (SFT)*					

Convergence Angle	-1	25	14.5690010
Scale Factor	1.000026613		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	160	22.50	73.8
MK # 2	AHTD RIGHT OF WAY MARKER	51	55.90	183.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	
Ref Mon # 2 CTA1	
Ref Mon # 3 SAL5	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	36 21 22.4734356
Longitude	94 26 29.4426276
Ellipsoid Height (M):	334.270 0.0050
Geoid Height (M):	-28.117 0.0050

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59N AND STATE HIGHWAY 102W, IN DECATUR, GO NORTH ON STATE HIGHWAY 59 FOR 1.65 MILES TO THE MARK ON THE RIGHT, EAST 22.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 15.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 040115A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040116	Date Monumented 10/26/2016	Monumented By AHTD	County BENTON	Route 43	Job Number: 090445
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	217,818.5214 0.0030
Easting (M)	168,745.6638 0.0030
Elevation (M)*	358.619

Northing (SFT)	714,626.2656		
Easting (SFT)	553,626.3987		
Elevation (SFT)*	1,176.569		

Convergence Angle	-1	29	51.8652418
Scale Factor	1.000007328		
Elevation Adjust. Factor	0.9999437242		
Combined Adjust. Factor	0.9999510518		

SUPERCEDED CONTROL

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

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid 12A		
Latitude	36	16	9.7652316
Longitude	94	34	25.9792428
Ellipsoid Height (M):	330.289	0.0070	
Geoid Height (M):	-28.343	0.0070	

Location Description

FROM JCT OF SR-12 & SR-43 W OF GENTRY, GO S ON SR-43 0.5MI TO STA ON L. 8' N OF CTR OF FIELD ENTRANCE. STA IS A 2 1/2" ALUM CAP STAMPED "040116 2016" SET BELLOW SURFACE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	N END OF GATE	92	23.00	75.5
MK # 2	CONC R/W	72	59.00	193.6
MK # 3	N END OF CUS	292	7.50	24.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 3RD ORDER U.S.C. & G.S. BM UE 3 A (NGVD 29 CONVERTED TO NAVD 88 USING VERTCON) IN NOV. 2016 FOR JOB # 090445. VERIFIED QUALITY OF UE 3 A BY CONSTRAINING ELEVATIONS ON AHTD CORS ARFY AND ON U.S.C. & G.S. 2ND ORDER BM'S K 31 & R 34 IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 CTA1	
Ref Mon # 3 MOA2	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040116A	Date Monumented 10/26/2016	Monumented By AHTD	County BENTON	Route 43	Job Number: 090445
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	218,301.9447	0.0030			
Easting (M)	168,755.8094	0.0030			
Elevation (M)*	355.092				
Northing (SFT)	716,212.2969				
Easting (SFT)	553,659.6847				
Elevation (SFT)*	1,164.999				

Convergence Angle	-1	29	51.9233735
Scale Factor	1.000008241		
Elevation Adjust. Factor	0.9999442775		
Combined Adjust. Factor	0.9999525181		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MTL POST	191	38.00	124.7
MK # 2	FENCE COR	273	6.50	21.3
MK # 3	N END OF CUS	153	11.00	36.1

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 CTA1 Ref Mon # 3 MOA2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 3RD ORDER U.S.C. & G.S. BM UE 3 A (NGVD 29 CONVERTED TO NAVD 88 USING VERTCON) IN NOV. 2016 FOR JOB # 090445. VERIFIED QUALITY OF UE 3 A BY CONSTRAINING ELEVATIONS ON AHTD CORS ARFY AND ON U.S.C. & G.S. 2ND ORDER BM'S K 31 & R 34 IN FINAL STATIC NETWORK ADJUSTMENT. </td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 3RD ORDER U.S.C. & G.S. BM UE 3 A (NGVD 29 CONVERTED TO NAVD 88 USING VERTCON) IN NOV. 2016 FOR JOB # 090445. VERIFIED QUALITY OF UE 3 A BY CONSTRAINING ELEVATIONS ON AHTD CORS ARFY AND ON U.S.C. & G.S. 2ND ORDER BM'S K 31 & R 34 IN FINAL STATIC NETWORK ADJUSTMENT.
Comments			
ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 3RD ORDER U.S.C. & G.S. BM UE 3 A (NGVD 29 CONVERTED TO NAVD 88 USING VERTCON) IN NOV. 2016 FOR JOB # 090445. VERIFIED QUALITY OF UE 3 A BY CONSTRAINING ELEVATIONS ON AHTD CORS ARFY AND ON U.S.C. & G.S. 2ND ORDER BM'S K 31 & R 34 IN FINAL STATIC NETWORK ADJUSTMENT.			

Location Description
FROM JCT OF SR-12 & SR-43 W OF GENTRY, GO S ON SR-43 0.2MI TO STA ON R. 22' N OF CTR OF DW. STA IS A 2 1/2" ALUM CAP STAMPED "040116A 2016" SET BELLOW SURFACE.

Vertical Determined By:	None
Elevation Datum:	
Geoid Datum:	Geoid 12A
Latitude	36 16 25.4520300
Longitude	94 34 26.0791428
Ellipsoid Height (M):	326.762 0.0070
Geoid Height (M):	-28.341 0.0070

AZ Mark Station	040116
Geodetic Azimuth	
Grid Azimuth	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040117	Date Monumented 2/15/2018	Monumented By ARDOT	County BENTON	Route D HWY	Job Number: BR0406
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	207,475.1431 0.0030
Easting (M)	184,324.6984 0.0030
Elevation (M)*	
Northing (SFT)	680,691.3653
Easting (SFT)	604,738.6147
Elevation (SFT)*	

Convergence Angle	-1	23	42.9059241
Scale Factor	0.999989848		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MKR	10	15.85	52.0
MK # 2	TB	60	18.99	62.3
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARFY, ARFS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHR, CTA1</td> </tr> <tr> <td>Ref Mon # 3</td> <td>OKTU, MOA2</td> </tr> </table>	Ref Mon # 1	ARFY, ARFS	Ref Mon # 2	ARHR, CTA1	Ref Mon # 3	OKTU, MOA2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ARFS WAS USED ONLY FOR A VERTICAL CONSTRAINT IN THE STATIC ADJUSTMENT. ALSO CONSTRAINED ORTHO HTS. ON ARFY & ARHR.</td> </tr> </table>	Comments	ARFS WAS USED ONLY FOR A VERTICAL CONSTRAINT IN THE STATIC ADJUSTMENT. ALSO CONSTRAINED ORTHO HTS. ON ARFY & ARHR.
Ref Mon # 1	ARFY, ARFS								
Ref Mon # 2	ARHR, CTA1								
Ref Mon # 3	OKTU, MOA2								
Comments									
ARFS WAS USED ONLY FOR A VERTICAL CONSTRAINT IN THE STATIC ADJUSTMENT. ALSO CONSTRAINED ORTHO HTS. ON ARFY & ARHR.									

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: GEOID12B

Latitude 36 10 47.0581356

Longitude 94 23 51.9186300

Ellipsoid Height (M): 288.624 0.0070

Geoid Height (M): -28.227 0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND OLD HIGHWAY 68, EAST OF SILOAM SPRINGS, GO EAST ON OLD HIGHWAY 68 FOR 2.9 MILES TO THE MARK ON THE LEFT, 31.2' WEST OF THE C/L OF LOGAN ROAD AND NORTH 27.9' OF THE C/L OF OLD HIGHWAY 68. THE STATION MARK IS A STANDARD 2" CAP STAMPED "040117 2018" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040117-2	Date Monumented 4/5/2018	Monumented By ARDOT	County BENTON	Route 112	Job Number: 12270, 090513, 012305, 09006
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	212,559.1586 0.0010
Easting (M)	199,468.4441 0.0010
Elevation (M)*	380.664
Northing (SFT)	697,371.1728
Easting (SFT)	654,422.7204
Elevation (SFT)*	1,248.896

Convergence Angle	-1 17 53.0273148
Scale Factor	0.999999101
Elevation Adjust. Factor	0.9999402649
Combined Adjust. Factor	0.9999393660

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

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO SOUTH ON HIGHWAY 112 2.4 MILES TO THE MARK ON THE LEFT, 45' EAST OF THE EDGE OF THE PAVEMENT AND SOUTH 69.7' OF THE EDGE OF THE EXIT RAMP. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040117 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	ELECTRIC BOX	102	12.95	42.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	<p>DUPLICATED GPS POINT 040117 FROM JOB BR0406 SO RENAMED THIS ONE TO 040117-2 IN THE DATABASE BUT THE CAP IS STAMPED 040117.</p> <p>*****ELEV.</p> <p>BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS</p>
Ref Mon # 2 CTA1	
Ref Mon # 3 MOA2	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040117A	Date Monumented 2/15/2018	Monumented By ARDOT	County BENTON	Route D HWY	Job Number: BR0406
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	207,582.4999	0.0030	
Easting (M)	183,778.1049	0.0030	
Elevation (M)*			
Northing (SFT)	681,043.5851		
Easting (SFT)	602,945.3325		
Elevation (SFT)*			

Convergence Angle	-1	23	55.6916289
Scale Factor	0.999990002		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	FE CORNER	178	1.77	5.8	040117
MK # 2	NORTHEAST CORNER I-S-F HOUSE	228	21.03	69.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY, ARFS	ARFS WAS USED ONLY FOR A VERTICAL CONSTRAINT IN THE STATIC ADJUSTMENT. ALSO CONSTRAINED ORTHO HTS. ON ARFY & ARHR.
Ref Mon # 2 ARHR, CTA1	
Ref Mon # 3 OKTU, MOA2	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040117A-2	Date Monumented 4/5/2018	Monumented By ARDOT	County BENTON	Route 112	Job Number: 12270, 090513, 012305, 09006
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (2011)		Elevation Datum: NAVD 88
Northing (M) 213,014.2075	0.0020	Geoid Datum: GEOID12B
Easting (M) 199,316.0088	0.0010	Latitude 36 13 58.1498400
Elevation (M)* 357.458		Longitude 94 13 57.1639980
Northing (SFT) 698,864.1124		Ellipsoid Height (M): 329.332 0.0030
Easting (SFT) 653,922.6055		Geoid Height (M): -28.122 0.0030
Elevation (SFT)* 1,172.761		<div style="border: 1px solid black; text-align: center; margin-bottom: 5px;">Location Description</div> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Convergence Angle -1 17 56.8187223		
Scale Factor 0.999999902		
Elevation Adjust. Factor 0.9999439063		
Combined Adjust. Factor 0.9999438083		

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

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE	353	9.17	30.1	AZ Mark Station 040117-2
MK # 2	UNDERGROUND CABLE MARKER	205			Geodetic Azimuth
MK # 3		15.76			Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	DUPLICATED GPS POINT 040117A FROM JOB BR0406 SO RENAMED THIS ONE TO 040117A-2 IN THE DATABASE BUT THE CAP IS STAMPED 040117. *****ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS
Ref Mon # 2 CTA1	
Ref Mon # 3 MOA2	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040118	Date Monumented 4/5/2018	Monumented By ARDOT	County BENTON	Route 112	Job Number: 012270, 090513
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	215,211.3486	0.0020	
Easting (M)	199,278.9826	0.0020	
Elevation (M)*	346.940		
Northing (SFT)	706,072.5662		
Easting (SFT)	653,801.1287		
Elevation (SFT)*	1,138.252		

Convergence Angle	-1	17	58.8425736
Scale Factor	1.000003871		
Elevation Adjust. Factor	0.9999455568		
Combined Adjust. Factor	0.9999494276		

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

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO SOUTH ON HIGHWAY 112 0.5 MILES TO THE MARK ON THE RIGHT, 25' WEST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040118 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE BOX	210	5.27	17.3	
MK # 2	COMBINATION POLE	354	7.22	23.7	
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY</p> <p>Ref Mon # 2 CTA1</p> <p>Ref Mon # 3 MOA2</p>	<p style="text-align: center;">Comments</p> <p>ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040119	Date Monumented 4/5/2018	Monumented By ARDOT	County BENTON	Route 112	Job Number: 012270, 090513, 090514
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	218,343.4923 0.0020
Easting (M)	199,863.5498 0.0020
Elevation (M)*	350.532

Northing (SFT)	716,348.6077
Easting (SFT)	655,718.9963
Elevation (SFT)*	1,150.037

Convergence Angle	-1	17	46.8724998
Scale Factor	1.000009763		
Elevation Adjust. Factor	0.9999449931		
Combined Adjust. Factor	0.9999547556		

SUPERCEDED CONTROL

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

Location Description

 TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO NORTH ON HIGHWAY 112 1.5 MILES TO THE MARK ON THE LEFT, 37' WEST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040119 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	GAS METER		192	10.73	35.2
MK # 2	GUY POLE		181	13.11	43.0
MK # 3					

AZ Mark Station	040119A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
Ref Mon # 2 CTA1	
Ref Mon # 3 MOA2	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040119A	Date Monumented 4/5/2018	Monumented By ARDOT	County BENTON	Route 112	Job Number: 012270, 090513, 090514
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	218,866.2371 0.0020
Easting (M)	199,840.4683 0.0020
Elevation (M)*	350.464
Northing (SFT)	718,063.6462
Easting (SFT)	655,643.2697
Elevation (SFT)*	1,149.816

Convergence Angle	-1	17	47.6863376
Scale Factor	1.000010765		
Elevation Adjust. Factor	0.9999450037		
Combined Adjust. Factor	0.9999557681		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MARKER	172	19.51	64.0
MK # 2	COMBINATION POLE	6	18.41	60.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
Ref Mon # 2 CTA1	
Ref Mon # 3 MOA2	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040120	Date Monumented 4/5/2018	Monumented By ARDOT	County BENTON	Route 112	Job Number: 012270, 090514
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	221,627.4878 0.0020
Easting (M)	200,029.9464 0.0020
Elevation (M)*	387.588
Northing (SFT)	727,122.8496
Easting (SFT)	656,264.9158
Elevation (SFT)*	1,271.613

Convergence Angle	-1	17	44.7252375
Scale Factor	1.000016184		
Elevation Adjust. Factor	0.9999391785		
Combined Adjust. Factor	0.9999553615		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	359	16.95	55.6
MK # 2	COMBINATION POLE W/TRANSFORMER	171	27.34	89.7
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 2</td> <td>CTA1</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MOA2</td> </tr> </table>	Ref Mon # 1	ARFY	Ref Mon # 2	CTA1	Ref Mon # 3	MOA2	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
Ref Mon # 1	ARFY								
Ref Mon # 2	CTA1								
Ref Mon # 3	MOA2								
Comments									
ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.									

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO NORTH ON HIGHWAY 112 3.6 MILES TO THE MARK ON THE LEFT, 33.5' WEST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040120 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12B
Latitude	36 18 38.0405916
Longitude	94 13 36.3812124
Ellipsoid Height (M):	359.441 0.0030
Geoid Height (M):	-28.115 0.0030

AZ Mark Station	040120A
Geodetic Azimuth	
Grid Azimuth	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040120A	Date Monumented 4/5/2018	Monumented By ARDOT	County BENTON	Route 112	Job Number: 012270, 090514
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	222,037.6283	0.0020	
Easting (M)	199,966.8257	0.0020	
Elevation (M)*	391.308		
Northing (SFT)	728,468.4522		
Easting (SFT)	656,057.8273		
Elevation (SFT)*	1,283.815		

Convergence Angle	-1	17	46.4135692
Scale Factor	1.000017001		
Elevation Adjust. Factor	0.9999385948		
Combined Adjust. Factor	0.9999555948		

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

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TELEPHONE BOX	345	8.47	27.8	040120
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 CTA1 Ref Mon # 3 MOA2	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040121	Date Monumented 4/5/2018	Monumented By ARDOT	County BENTON	Route H ST.	Job Number: 012270, 090514
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	223,816.4005	0.0020	
Easting (M)	200,664.6428	0.0020	
Elevation (M)*	395.803		
Northing (SFT)	734,304.3073		
Easting (SFT)	658,347.2489		
Elevation (SFT)*	1,298.563		

Convergence Angle	-1	17	31.0758063
Scale Factor	1.000020638		
Elevation Adjust. Factor	0.9999378895		
Combined Adjust. Factor	0.9999585262		

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

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	SIGN "WELCOME TO BENTONVILLE"	280		22.86	75.0
MK # 2	SIGN "TRAIL OF 2 CITIES"	234		16.24	53.3
MK # 3	POWERPOLE W/2 GUYS	329		28.53	93.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 CTA1 Ref Mon # 3 MOA2	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 12 AND STATE HIGHWAY 71B, IN BENTONVILLE, GO WEST ON HIGHWAY 12 0.5 MILES TO H ST. AND TURN LEFT (SOUTH) AND GO 0.35 MILES TO THE MARK ON THE RIGHT, 45' NORTH OF THE C/L OF RAZORBACK GREENWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040121 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	040121A
Geodetic Azimuth	
Grid Azimuth	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040121A	Date Monumented 4/5/2018	Monumented By ARDOT	County BENTON	Route H ST.	Job Number: 012270, 090514
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	224,296.1007	0.0020	
Easting (M)	200,701.9906	0.0010	
Elevation (M)*	394.524		
Northing (SFT)	735,878.1237		
Easting (SFT)	658,469.7808		
Elevation (SFT)*	1,294.369		

Convergence Angle	-1	17	30.4569790
Scale Factor	1.000021625		
Elevation Adjust. Factor	0.9999380901		
Combined Adjust. Factor	0.9999597138		

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	342	7.16	23.5
MK # 2	MANHOLE	250	4.57	15.0
MK # 3	LIGHT POLE	16	10.67	35.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 CTA1 Ref Mon # 3 MOA2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
Comments			
ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 12 AND STATE HIGHWAY 71B, IN BENTONVILLE, GO WEST ON HIGHWAY 12 0.5 MILES TO H ST. AND TURN LEFT (SOUTH) AND GO 0.5 MILES TO THE MARK ON THE LEFT, 38' EAST OF THE C/L OF H ST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040121A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12B
Latitude	36 20 5.0860680
Longitude	94 13 11.8610544
Ellipsoid Height (M):	366.373 0.0030
Geoid Height (M):	-28.117 0.0030

AZ Mark Station	040121
Geodetic Azimuth	
Grid Azimuth	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040122	Date Monumented 3/19/2018	Monumented By AHTD	County BENTON	Route STULTZ	Job Number: EF7211
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	210,808.0252 0.0020
Easting (M)	206,340.1091 0.0020
Elevation (M)*	

Northing (SFT)	691,625.9960	
Easting (SFT)	676,967.5079	
Elevation (SFT)*		

Convergence Angle	-1	15	12.0549998
Scale Factor	0.999996307		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	14	14.78	48.5
MK # 2	SS MANHOLE	202	11.37	37.3
MK # 3	CENTER OF GATE	325	4.72	15.5

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 3</td> <td>CTAI</td> </tr> </table>	Ref Mon # 1	ARHR	Ref Mon # 2	ARFY	Ref Mon # 3	CTAI	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARHR							
Ref Mon # 2	ARFY							
Ref Mon # 3	CTAI							
Comments								

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 12B

Latitude 36 12 51.6674232

Longitude 94 9 14.0157432

Ellipsoid Height (M): 355.468 0.0060

Geoid Height (M): -28.079 0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 49 AND WAGON WHEEL ROAD (EXIT 76), NORTH OF SPRINGDALE, GO EAST ON WAGON WHEEL ROAD FOR 1.05 MILES TO SILENT GROVE ROAD AND TURN RIGHT (SOUTH) AND GO 0.75 MILES TO WEST PUMP STATION ROAD AND TURN LEFT (EAST) AND GO 0.45 MILES TO NORTH STULTZ ROAD AND TURN LEFT (NORTH) AND GO 0.05 MILES TO THE STATION MARK ON THE LEFT, WEST 24' OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2" CAP STAMPED "2018 040122" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040122A	Date Monumented 3/19/2018	Monumented By AHTD	County BENTON	Route P STATI	Job Number: EF7211
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	210,455.9148 0.0020
Easting (M)	206,305.6233 0.0020
Elevation (M)*	
Northing (SFT)	690,470.7805
Easting (SFT)	676,854.3658
Elevation (SFT)*	

Convergence Angle	-1	15	12.6787689
Scale Factor	0.999995698		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RAZORBACK GREENWAY MI MKR 16	206	11.98	39.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR	
Ref Mon # 2 ARFY	
Ref Mon # 3 CTA1	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12B
Latitude	36 12 40.2220296
Longitude	94 9 15.0876972
Ellipsoid Height (M):	343.899 0.0060
Geoid Height (M):	-28.079 0.0060

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF I 49 AND WAGON WHEEL ROAD (EXIT 76), NORTH OF SPRINGDALE, GO EAST ON WAGON WHEEL ROAD FOR 1.05 MILES TO SILENT GROVE ROAD AND TURN RIGHT (SOUTH) AND GO 0.75 MILES TO WEST PUMP STATION ROAD AND TURN LEFT (EAST) AND GO 0.45 MILES TO NORTH PUMP STATION ROAD AND TURN RIGHT (SOUTH) AND GO 0.1 MILES TO THE STATION MARK ON THE RIGHT, WEST 274' OF THE C/L OF THE ROAD AND NORTH 50' OF THE C/L OF RAZORBACK GREENWAY. THE MARK IS A STANDARD 2" CAP STAMPED "2018 040122A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND</p>

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040123	Date Monumented 3/18/2019	Monumented By ARDOT	County BENTON	Route 102	Job Number: 090238
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	227,181.9781	0.0030			
Easting (M)	192,490.1177	0.0030			
Elevation (M)*					
Northing (SFT)	745,346.2065				
Easting (SFT)	631,527.9945				
Elevation (SFT)*					

Convergence Angle	-1	20	43.5863407
Scale Factor	1.000027273		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	80	17.98	59.0
MK # 2	SW COR 1-2-B HOUSE	342	28.65	94.0
MK # 3	SERVICE POLE	291	25.15	82.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 CTA1 Ref Mon # 3 MOA2	STATIC GPS DERIVED ELEV. BASED ON ORHTOMETRIC HT. CONSTRAINTS ON ARDOT CORS SITES ARFS & ARFY

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid12B

Latitude 36 21 32.5535544

Longitude 94 18 43.7559696

Ellipsoid Height (M): 386.281 0.0110

Geoid Height (M): -28.076 0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 102B AND STATE HIGHWAY 102, IN CENTERTON, GO WEST ON HIGHWAY 102 1.55 MILES TO THE MARK ON THE RIGHT, NORTH 24' OF THE C/L OF THE HIGHWAY AND 101' WEST OF THE C/L OF KELLER ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040123" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040123A	Date Monumented 3/18/2019	Monumented By ARDOT	County BENTON	Route 102	Job Number: 090238
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	227,143.8891 0.0030
Easting (M)	192,971.4722 0.0030
Elevation (M)*	
Northing (SFT)	745,221.2428
Easting (SFT)	633,107.2384
Elevation (SFT)*	

Convergence Angle	-1	20	32.3341068
Scale Factor	1.000027216		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CP	155	4.88	16.0
MK # 2	WATER VALVE	190	7.16	23.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	STATIC GPS DERIVED ELEV. BASED ON ORHTOMETRIC HT. CONSTRAINTS ON ARDOT CORS SITES ARFS & ARFY
Ref Mon # 2 CTA1	
Ref Mon # 3 MOA2	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040124	Date Monumented 3/18/2019	Monumented By ARDOT	County BENTON	Route 102	Job Number: 090238
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	227,086.9125 0.0030
Easting (M)	194,915.3426 0.0030
Elevation (M)*	
Northing (SFT)	745,034.3121
Easting (SFT)	639,484.7532
Elevation (SFT)*	

Convergence Angle	-1	19	46.9469754
Scale Factor	1.000027191		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SIGNAL POLE	185	6.88	22.6
MK # 2	CP W/LIGHT	71	7.62	25.0
MK # 3	END OF FENCE	343	21.48	70.5

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 CTA1 Ref Mon # 3 MOA2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC GPS DERIVED ELEV. BASED ON ORHTOMETRIC HT. CONSTRAINTS ON ARDOT CORS SITES ARFS & ARFY </td> </tr> </table>	Comments	STATIC GPS DERIVED ELEV. BASED ON ORHTOMETRIC HT. CONSTRAINTS ON ARDOT CORS SITES ARFS & ARFY
Comments			
STATIC GPS DERIVED ELEV. BASED ON ORHTOMETRIC HT. CONSTRAINTS ON ARDOT CORS SITES ARFS & ARFY			

Location Description	
THE STATION MARK IS LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF STATE HGIHWAY 102B (MAIN ST.) AND STATE HIGHWAY 102 (WEST CENTERTON BLVD.), IN CENTERTON, THE MARK IS 43.5' NORTH FROM THE BACK OF CURB OF HIGHWAY 102 (W CENTERTON BLVD) AND WEST 72.7' OF THE C/L OF HIGHWAY 102B (MAIN ST.). THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040124" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040124A	Date Monumented 3/18/2019	Monumented By ARDOT	County BENTON	Route 102	Job Number: 090238
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	227,023.8512	0.0030			
Easting (M)	195,300.3765	0.0020			
Elevation (M)*					
Northing (SFT)	744,827.4185				
Easting (SFT)	640,747.9852				
Elevation (SFT)*					

Convergence Angle	-1	19	37.9289017
Scale Factor	1.000027076		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CP W/GUY AND LIGHT	306	7.38	24.2
MK # 2	CP W/3 GUYS	81	24.38	80.0
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 2</td> <td>CTA1</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MOA2</td> </tr> </table>	Ref Mon # 1	ARFY	Ref Mon # 2	CTA1	Ref Mon # 3	MOA2	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC GPS DERIVED ELEV. BASED ON ORHTOMETRIC HT. CONSTRAINTS ON ARDOT CORS SITES ARFS & ARFY </td> </tr> </table>	Comments	STATIC GPS DERIVED ELEV. BASED ON ORHTOMETRIC HT. CONSTRAINTS ON ARDOT CORS SITES ARFS & ARFY
Ref Mon # 1	ARFY								
Ref Mon # 2	CTA1								
Ref Mon # 3	MOA2								
Comments									
STATIC GPS DERIVED ELEV. BASED ON ORHTOMETRIC HT. CONSTRAINTS ON ARDOT CORS SITES ARFS & ARFY									

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

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	36 21 29.5512264
Longitude	94 16 50.9229444
Ellipsoid Height (M):	350.596 0.0110
Geoid Height (M):	-28.096 0.0110

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 102B AND STATE HIGHWAY 102, IN CENTERTON, GO EAST ON HIGHWAY 102 0.25 MILES TO THE MARK ON THE RIGHT, SOUTH 31.5' OF THE BACK OF THE CURB. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040124A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040125	Date Monumented 5/1/2019	Monumented By ARDOT	County BENTON	Route 59	Job Number: 090558
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	220,879.0567 0.0020
Easting (M)	179,984.0856 0.0020
Elevation (M)*	
Northing (SFT)	724,667.3719
Easting (SFT)	590,497.7875
Elevation (SFT)*	

Convergence Angle	-1	25	31.7189778
Scale Factor	1.000013761		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	128	23.77	78.0
MK # 2	FENCE CORNER	346	28.96	95.0
MK # 3	18" RCP	214	9.45	31.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFS Ref Mon # 2 ARHR Ref Mon # 3 ARRV, CTA1	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	36 17 58.3244268
Longitude	94 26 58.9150500
Ellipsoid Height (M):	383.863 0.0170
Geoid Height (M):	-28.142 0.0170

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 12, IN GENTRY, GO NORTH ON HIGHWAY 59 3.1 MILES TO THE MARK ON THE RIGHT, EAST 79' OF THE C/L OF THE HGIHWAY AND NORTH 79' OF AN PAVED ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040125" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040125A	Date Monumented 5/1/2019	Monumented By ARDOT	County BENTON	Route 59	Job Number: 090558
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	221,259.3512 0.0020
Easting (M)	179,907.9283 0.0020
Elevation (M)*	
Northing (SFT)	725,915.0547
Easting (SFT)	590,247.9281
Elevation (SFT)*	

Convergence Angle	-1	25	33.7152820
Scale Factor	1.000014506		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 12, IN GENTRY, GO NORTH ON HIGHWAY 59 3.35 MILES TO THE MARK ON THE LEFT, WEST 25.5' OF THE C/L OF THE HIGHWAY AND SOUTH 36.5' OF Y CITY ROAD AND 62' EAST OF THE NEAREST RAILROAD RAIL THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040125A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					040125
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFS	
Ref Mon # 2 ARHR	
Ref Mon # 3 ARRV, CTA1	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040126	Date Monumented 5/1/2019	Monumented By ARDOT	County BENTON	Route 59	Job Number: 090558
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	223,699.1597	0.0020			
Easting (M)	179,448.2660	0.0020			
Elevation (M)*					
Northing (SFT)	733,919.6598				
Easting (SFT)	588,739.8527				
Elevation (SFT)*					

Convergence Angle	-1	25	45.8520712
Scale Factor	1.000019370		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/LIGHT AND TRANSFORMER	12	6.95	22.8
MK # 2	SS MANHOLE	116	10.82	35.5
MK # 3	END OF FENCE	33	6.19	20.3

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFS Ref Mon # 2 ARHR Ref Mon # 3 ARRV, CTA1	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid12B

Latitude 36 19 29.3533068

Longitude 94 27 23.2029252

Ellipsoid Height (M): 361.616 0.0170

Geoid Height (M): -28.136 0.0170

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 102E, IN DECATUR, GO SOUTH ON HIGHWAY 59 0.85 MILES TO THE MARK ON THE LEFT, EAST 37' OF THE C/L OF THE HIGHWAY AND SOUTH 50' OF THE C/L OF A GRAVEL DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040126" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040126A	Date Monumented 5/1/2019	Monumented By ARDOT	County BENTON	Route 59	Job Number: 090558
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	224,106.1616	0.0020			
Easting (M)	179,342.0445	0.0020			
Elevation (M)*					
Northing (SFT)	735,254.9652				
Easting (SFT)	588,391.3577				
Elevation (SFT)*					

Convergence Angle	-1	25	48.5663535
Scale Factor	1.000020194		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/LIGHT AND TRANSFORMER	131	5.30	17.4
MK # 2	FIRE HYDRANT	43	10.49	34.4
MK # 3	POWER POLE W/LIGHT AND TRANSFORMER	0	7.38	24.2

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFS Ref Mon # 2 ARHR Ref Mon # 3 ARRV, CTA1	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	36 19 42.4671672
Longitude	94 27 27.8674488
Ellipsoid Height (M):	356.296 0.0170
Geoid Height (M):	-28.137 0.0170

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 102E, IN DECATUR, GO SOUTH ON HIGHWAY 59 0.6 MILES TO THE MARK ON THE LEFT, EAST 33.4' OF THE C/L OF THE HIGHWAY AND SOUTH 11' OF THE C/L OF JERRY AVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040126A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	040126A
Geodetic Azimuth	
Grid Azimuth	

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040127	Date Monumented 5/1/2019	Monumented By ARDOT	County BENTON	Route 48	Job Number: 090558
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	227,617.2899	0.0020			
Easting (M)	181,298.1881	0.0020			
Elevation (M)*					
Northing (SFT)	746,774.3919				
Easting (SFT)	594,809.1388				
Elevation (SFT)*					

Convergence Angle	-1	25	4.9699557
Scale Factor	1.000027625		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE	227	20.12	66.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFS	
Ref Mon # 2 ARHR	
Ref Mon # 3 ARRV, CTA1	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	36 21 37.9163736
Longitude	94 26 12.9465636
Ellipsoid Height (M):	327.361 0.0170
Geoid Height (M):	-28.113 0.0170

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 102W, IN DECATUR, GO NORTH ON HIGHWAY 59 1.95 MILES TO BETHLEHEM (CR48) ROAD AND TURN RIGHT (EAST) AND GO 0.2 MILES TO THE MARK ON THE LEFT, NORTH 20' OF THE C/L OF THE ROAD AND SOUTH 3.8' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040127" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040128	Date Monumented 5/1/2019	Monumented By ARDOT	County BENTON	Route 59	Job Number: 090558
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	230,336.9163	0.0020			
Easting (M)	180,924.0032	0.0020			
Elevation (M)*					
Northing (SFT)	755,697.0329				
Easting (SFT)	593,581.5005				
Elevation (SFT)*					

Convergence Angle	-1	25	15.2746593
Scale Factor	1.000033494		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	64	7.98	26.2
MK # 2	R/W MARKER	156	14.84	48.7
MK # 3	FENCE CORNER	89	10.24	33.6

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARFS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARRV, CTA1</td> </tr> </table>	Ref Mon # 1	ARFS	Ref Mon # 2	ARHR	Ref Mon # 3	ARRV, CTA1	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARFS							
Ref Mon # 2	ARHR							
Ref Mon # 3	ARRV, CTA1							
Comments								

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid12B

Latitude 36 23 5.8170804

Longitude 94 26 30.6553092

Ellipsoid Height (M): 334.691 0.0170

Geoid Height (M): -28.133 0.0170

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 102W, IN DECATUR, GO NORTH ON HIGHWAY 59 3.7 MILES TO THE MARK ON THE LEFT, WEST 23' OF THE C/L OF THE HIGHWAY AND 35.3' SOUTH OF BETHEL ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040128" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

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

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040128A	Date Monumented 5/1/2019	Monumented By ARDOT	County BENTON	Route 59	Job Number: 090558
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	230,832.2645	0.0020			
Easting (M)	180,960.7538	0.0020			
Elevation (M)*					
Northing (SFT)	757,322.1878				
Easting (SFT)	593,702.0731				
Elevation (SFT)*					

Convergence Angle	-1	25	14.7036508
Scale Factor	1.000034588		
Elevation Adjust. Factor			
Combined Adjust. Factor			

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

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	357	1.43	4.7
MK # 2	POWER POLE W/TRANSFORMER	187	12.19	40.0
MK # 3	NE CORNER 1-S-B BLDING	259	33.53	110.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFS	
Ref Mon # 2 ARHR	
Ref Mon # 3 ARRV, CTA1	

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid12B

Latitude 36 23 21.9113952

Longitude 94 26 29.6740248

Ellipsoid Height (M): 325.603 0.0170

Geoid Height (M): -28.136 0.0170

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 102W, IN DECATUR, GO NORTH ON HIGHWAY 59 4.0 MILES TO THE MARK ON THE RIGHT, EAST 41.2' OF THE C/L OF THE HIGHWAY AND 16.4 NORTH OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040128A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040129	Date Monumented 7/24/2019	Monumented By ARDOT	County BENTON	Route 59	Job Number: 090558
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	234,890.2704 0.0030
Easting (M)	180,018.2315 0.0030
Elevation (M)*	

Northing (SFT)	770,635.8288	
Easting (SFT)	590,609.8145	
Elevation (SFT)*		

Convergence Angle	-1	25	39.0634256
Scale Factor	1.000043712		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 72W AND STATE HIGHWAY 59, IN GRAVETTE, GO NORTH ON HIGHWAY 59 0.1 MILES TO THE MARK ON THE RIGHT, EAST 28' OF THE C/L OF THE HIGHWAY, 57.4' SOUTH OF THE C/L OF DETROIT ST NE AND 38.7' NORTH OF THE C/L OF THE DRIVEWAY TO THE DOLLAR GENERAL STORE. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040129" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	41.5	12.62	41.4
MK # 2	NW CORNER DOLLAR STORE	82.5	25.15	82.5
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFS Ref Mon # 2 ARHR Ref Mon # 3 ARRV, CTA1	<div style="border: 1px solid black; padding: 5px; min-height: 100px;"> Comments </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040129A	Date Monumented 7/24/2019	Monumented By ARDOT	County BENTON	Route 59	Job Number: 090558
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	235,348.3668	0.0040			
Easting (M)	179,850.0038	0.0030			
Elevation (M)*					
Northing (SFT)	772,138.7667				
Easting (SFT)	590,057.8875				
Elevation (SFT)*					

Convergence Angle	-1	25	43.2586129
Scale Factor	1.000044764		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATSON HEADSTONE	226	7.68	25.2
MK # 2	R/W MARKER	342	9.75	32.0
MK # 3	POWER POLE	152	10.48	34.4

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARFS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARRV, CTA1</td> </tr> </table>	Ref Mon # 1	ARFS	Ref Mon # 2	ARHR	Ref Mon # 3	ARRV, CTA1	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	ARFS						
Ref Mon # 2	ARHR						
Ref Mon # 3	ARRV, CTA1						

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid12B

Latitude 36 25 47.4766248

Longitude 94 27 18.7460388

Ellipsoid Height (M): 348.047 0.0070

Geoid Height (M): -28.199 0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 72W AND STATE HIGHWAY 59, IN GRAVETTE, GO NORTH ON HIGHWAY 59 0.4 MILES TO THE MARK ON THE LEFT, WEST 42 ' OF THE C/L OF THE HIGHWAY, THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040129A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040130	Date Monumented 11/13/2019	Monumented By ARDOT	County BENTON	Route N/A	Job Number: 090069, AIRBORNE 2020
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	216,054.8650	0.0020			
Easting (M)	194,864.4268	0.0020			
Elevation (M)*	367.018				
Northing (SFT)	708,840.0029				
Easting (SFT)	639,317.7069				
Elevation (SFT)*	1,204.125				

Convergence Angle	-1	19	42.1659691
Scale Factor	1.000005239		
Elevation Adjust. Factor	0.9999424062		
Combined Adjust. Factor	0.9999476449		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	330	26.91	88.3
MK # 2	FENCE CORNER	355	29.55	96.9
MK # 3	FENCE CORNER	78	1.52	5.0

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 2</td> <td>CTA1</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MOA2</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARFY	Ref Mon # 2	CTA1	Ref Mon # 3	MOA2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5112 & S5111 IN NOV. & DEC. 2019 FOR JOB #090069 FROM PN:903 FROM JOB #090402 THAT WAS ADJ. TO MATCH VERT. DATUM FROM JOB #090513 BY THE FOLLOWING METHOD. TBM's 902 FROM JOB #090402 & TBM FROM JOB #090513 WERE IN SAME HDWL. S5111 FROM LEVELING MEASURED 902 TO BE 0.0295' HIGHER THAN 919. 902 ADJ. FROM 1146.4094 TO 1146.2962, THEN 903 WAS ADJ. BASED ON ORIG. ELEV. DIFF. BETWEEN 902 & 903</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5112 & S5111 IN NOV. & DEC. 2019 FOR JOB #090069 FROM PN:903 FROM JOB #090402 THAT WAS ADJ. TO MATCH VERT. DATUM FROM JOB #090513 BY THE FOLLOWING METHOD. TBM's 902 FROM JOB #090402 & TBM FROM JOB #090513 WERE IN SAME HDWL. S5111 FROM LEVELING MEASURED 902 TO BE 0.0295' HIGHER THAN 919. 902 ADJ. FROM 1146.4094 TO 1146.2962, THEN 903 WAS ADJ. BASED ON ORIG. ELEV. DIFF. BETWEEN 902 & 903
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARFY										
Ref Mon # 2	CTA1										
Ref Mon # 3	MOA2										
Comments											
ELEV. BASED ON DIGITAL LEVELS BY S5112 & S5111 IN NOV. & DEC. 2019 FOR JOB #090069 FROM PN:903 FROM JOB #090402 THAT WAS ADJ. TO MATCH VERT. DATUM FROM JOB #090513 BY THE FOLLOWING METHOD. TBM's 902 FROM JOB #090402 & TBM FROM JOB #090513 WERE IN SAME HDWL. S5111 FROM LEVELING MEASURED 902 TO BE 0.0295' HIGHER THAN 919. 902 ADJ. FROM 1146.4094 TO 1146.2962, THEN 903 WAS ADJ. BASED ON ORIG. ELEV. DIFF. BETWEEN 902 & 903											

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264W, IN CAVE SPRINGS, GO WEST ON HIGHWAY 264 FOR 3.3 MILES TO BRUSH ARBOR ROAD AND TURN RIGHT (NORTH) ON SAID ROAD GO FOR 0.15 MILES TO THE MARK ON THE RIGHT, 11.4' EAST OF THE C/L OF THE ROAD AND 2.6' WEST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040130" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	36 15 33.4607472
Longitude	94 16 58.2043908
Ellipsoid Height (M):	338.836 0.0070
Geoid Height (M):	-28.131 0.0070

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040130A	Date Monumented 11/13/2019	Monumented By ARDOT	County BENTON	Route N/A	Job Number: 090069, AIRBORNE 2020
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	216,410.9652 0.0020
Easting (M)	194,873.8279 0.0010
Elevation (M)*	375.089
Northing (SFT)	710,008.3083
Easting (SFT)	639,348.5504
Elevation (SFT)*	1,230.606

Convergence Angle	-1	19	42.1393164
Scale Factor	1.000005901		
Elevation Adjust. Factor	0.9999411397		
Combined Adjust. Factor	0.9999470404		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE T INTERSECTION	125	11.06	36.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS BY S5112 & S5111 IN NOV. & DEC. 2019 FOR JOB #090069 FROM PN:903 FROM JOB #090402 THAT WAS ADJ. TO MATCH VERT. DATUM FROM JOB #090513 BY THE FOLLOWING METHOD. TBM's 902 FROM JOB #090402 & TBM FROM JOB #090513 WERE IN SAME HDWL. S5111 FROM LEVELING MEASURED 902 TO BE 0.0295' HIGHER THAN 919. 902 ADJ. FROM 1146.4094 TO 1146.2962, THEN 903 WAS ADJ. BASED ON ORIG. ELEV. DIFF. BETWEEN 902 & 903
Ref Mon # 2 CTA1	
Ref Mon # 3 MOA2	

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264W, IN CAVE SPRINGS, GO WEST ON HIGHWAY 264 FOR 3.3 MILES TO BRUSH ARBOR ROAD AND TURN RIGHT (NORTH) ON SAID ROAD AND GO FOR 0.35 MILES TO THE MARK ON THE LEFT, 13.5' WEST OF THE C/L OF THE ROAD AND 28.3' WEST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040130A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	040130
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040131	Date Monumented 11/13/2019	Monumented By ARDOT	County BENTON	Route N/A	Job Number: 090069, AIRBORNE 2020
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	213,132.6825 0.0020
Easting (M)	196,736.3113 0.0010
Elevation (M)*	333.217
Northing (SFT)	699,252.8092
Easting (SFT)	645,459.0480
Elevation (SFT)*	1,093.228

Convergence Angle	-1	18	56.9794037
Scale Factor	1.000000008		
Elevation Adjust. Factor	0.9999477102		
Combined Adjust. Factor	0.9999477182		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	93	31.70	104.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN NOV. 2019 FROM PN:62 FROM JOB #090513 FOR CONTROL FOR JOB #090069.
Ref Mon # 2 CTA1	
Ref Mon # 3 MOA2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040131A	Date Monumented 11/13/2019	Monumented By ARDOT	County BENTON	Route N/A	Job Number: 090069, AIRBORNE 2020
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	213,412.6601	0.0020			
Easting (M)	197,141.9256	0.0020			
Elevation (M)*	332.335				
Northing (SFT)	700,171.3690				
Easting (SFT)	646,789.8009				
Elevation (SFT)*	1,090.337				

Convergence Angle	-1	18	47.6795619
Scale Factor	1.000000525		
Elevation Adjust. Factor	0.9999478484		
Combined Adjust. Factor	0.9999483734		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE	353	8.23	27.0
MK # 2	TELEPHONE BOX	63	14.94	49.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN NOV. 2019 FROM PN:62 FROM JOB #090513 FOR CONTROL FOR JOB #090069.
Ref Mon # 2 CTA1	
Ref Mon # 3 MOA2	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	36 14 9.4656984
Longitude	94 15 24.5689056
Ellipsoid Height (M):	304.177 0.0070
Geoid Height (M):	-28.134 0.0070

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO SOUTH ON HIGHWAY 112 FOR 1.45 MILES TO WAGER DR AND TURN RIGHT (WEST) ON SAID ROAD AND GO 1.2 MILES TO THE MARK ON THE RIGHT, 68' NORTHWEST OF THE C/L OF THE ROAD AND 85' NORTHWEST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040131A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040132	Date Monumented 11/19/2019	Monumented By ARDOT	County BENTON	Route BREDENHOEF	Job Number: CB0401
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	217,691.5699	0.0030	
Easting (M)	182,296.7148	0.0030	
Elevation (M)*			
Northing (SFT)	714,209.7589		
Easting (SFT)	598,085.1385		
Elevation (SFT)*			

Convergence Angle	-1	24	35.9711898
Scale Factor	1.000007737		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE WEST OF RD.	146	28.32	92.9
MK # 2	HACKBERRY W/ T POST IN IT	326	13.66	44.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	
Ref Mon # 2 CTA1	
Ref Mon # 3 MOA2	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid18
Latitude	36 16 16.8022848
Longitude	94 25 23.1118680
Ellipsoid Height (M):	348.280 0.0110
Geoid Height (M):	-28.195 0.0110

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 12E AND STATE HIGHWAY 59, IN GENTRY, GO EAST ON HIGHWAY 12 FOR 3.8 MILES AND TURN LEFT ON READINGS ROAD/SPRINGTOWN MAIN ST AND GO 0.05 MILES AND TURN RIGHT ON AUBER LONG ROAD (352) AND GO 0.1 MILES AND TURN LEFT ONTO BREDENHOEF ROAD (349) AND GO 0.7 MILES TO THE MARK ON THE LEFT, WEST 13.5' OF THE C/L OF THE GRAVEL ROAD AND EAST OF A WITNESS POST 1.8'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "20' 19 040132" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

AZ Mark Station	040132A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040132A	Date Monumented 11/19/2019	Monumented By ARDOT	County BENTON	Route BRENHOEF	Job Number: CB0401
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	218,055.1090	0.0030	
Easting (M)	182,129.8804	0.0030	
Elevation (M)*			
Northing (SFT)	715,402.4701		
Easting (SFT)	597,537.7826		
Elevation (SFT)*			

Convergence Angle	-1	24	40.0682487
Scale Factor	1.000008416		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	
Ref Mon # 2 CTA1	
Ref Mon # 3 MOA2	

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid18

Latitude 36 16 28.4596536

Longitude 94 25 30.1527084

Ellipsoid Height (M): 353.720 0.0110

Geoid Height (M): -28.192 0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 12E AND STATE HIGHWAY 59, IN GENTRY, GO EAST ON HIGHWAY 12 FOR 3.8 MILES AND TURN LEFT ON READINGS ROAD/SPRINGTOWN MAIN ST AND GO 0.05 MILES AND TURN RIGHT ON AUBER LONG ROAD (352) AND GO 0.1 MILES AND TURN LEFT ONTO BREDENHOEF ROAD (349) AND GO 1.0 MILES TO THE MARK ON THE RIGHT, EAST 14.2' OF THE C/L OF THE GRAVEL ROAD AND WEST OF A WITNESS POST 2.2'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "20' 19 040132A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040133	Date Monumented 9/29/2020	Monumented By ARDOT	County BENTON	Route CR 34	Job Number: 090580
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	239,066.4593	0.0030			
Easting (M)	186,836.6622	0.0030			
Elevation (M)*					
Northing (SFT)	784,337.2086				
Easting (SFT)	612,979.9492				
Elevation (SFT)*					

Convergence Angle	-1	23	2.1948981
Scale Factor	1.000053988		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	SE CORNER OF BRIDGE	285	9.14	30.0	040133A
MK # 2	DROP INLET	6	2.23	7.3	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFS	STATIC DERIVED ELEVATION BASED ON ORHTOMETRIC HT. CONSTRAINTS ON ARDOT CORS ARFS & ARFY AND ON NGS BM R 34
Ref Mon # 2 ARFY	
Ref Mon # 3 MOA2, MOCS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040133A	Date Monumented 9/29/2020	Monumented By ARDOT	County BENTON	Route RTSCHY	Job Number: 090580
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	238,649.0776 0.0030
Easting (M)	186,739.0411 0.0030
Elevation (M)*	

Northing (SFT)	782,967.8488	
Easting (SFT)	612,659.6707	
Elevation (SFT)*		

Convergence Angle	-1	23	4.2399909
Scale Factor	1.000052975		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279, IN NHIWASSE, GO SOUTH ON HIGHWAY 279 0.5 MILES TO HIWASSE ROAD AND TURN RIGHT AND GO 0.9 MILES TO HIGHLANDS BLVD AND TURN LEFT AND GO 0.8 MILES TO ROCKY DELL HOLLOW ROAD AND TURN LEFT AND GO 0.5 MILES TO A STOP SIGN AND TURN LEFT AND GO 0.1 MILES TO BERTSCHY LN AND TURN LEFT AND GO 0.2 MILES TO THE MARK ON THE LEFT. EAST OF THE C/L OF THE ROAD 80.7' AND WEST 2.5' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040133A 2020" ON TOPO OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFS</p> <p>Ref Mon # 2 ARFY</p> <p>Ref Mon # 3 MOA2, MOCS</p>	<p style="text-align: center;">Comments</p> <p>STATIC DERIVED ELEVATION BASED ON ORHTOMETRIC HT. CONSTRAINTS ON ARDOT CORS ARFS & ARFY AND ON NGS BM R 34</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040134	Date Monumented 10/7/2020	Monumented By ARDOT	County BENTON	Route 12	Job Number: 09X025
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	217,507.8886	0.0030			
Easting (M)	174,734.0570	0.0040			
Elevation (M)*					

Northing (SFT)	713,607.1312				
Easting (SFT)	573,273.3187				
Elevation (SFT)*					

Convergence Angle	-1	27	32.1182098		
Scale Factor	1.000007035				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 12W, IN GENTRY, GO WEST ON HIGHWAY 12 1.6 MILES TO THE MARK ON THE RIGHT, NORTH 20.1' OF THE C/L OF THE HIGHWAY AND ACROSS THE ROAD FROM BETTY BAKER ROAD. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 040134" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE W/6 GUYS	359	6.04	19.8	AZ Mark Station 040134A
MK # 2	TELEPHONE BOX	333	5.94	19.5	Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFS Ref Mon # 2 ARFY Ref Mon # 3 MOA2 OKTU	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040134A	Date Monumented 10/7/2020	Monumented By ARDOT	County BENTON	Route 12	Job Number: 09X025
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	217,530.8338	0.0030			
Easting (M)	174,290.6757	0.0040			
Elevation (M)*					
Northing (SFT)	713,682.4106				
Easting (SFT)	571,818.6585				
Elevation (SFT)*					

Convergence Angle	-1	27	42.4648939
Scale Factor	1.000007057		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	273	9.02	29.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFS Ref Mon # 2 ARFY Ref Mon # 3 MOA2 OKMU	

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 36 16 5.0805840

Longitude 94 30 43.6033332

Ellipsoid Height (M): 334.229 0.0130

Geoid Height (M): -28.303 0.0130

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 12W, IN GENTRY, GO WEST ON HIGHWAY 12 1.9 MILES TO THE MARK ON THE LEFT, SOUTH 28.9" OF THE C/L OF THE HIGHWAY, 49.2' WEST OF THE C/L OF A GRAVEL DRIVEWAY AND 62' EAST OF THE C/L OF A ASPH DRIVEWAY.. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 040134A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050001	Date Monumented 10/17/1990	Monumented By AHTD	County BOONE	Route 62	Job Number: 90219,R90017,R90104,09020
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 218,342.8260		Latitude 36 17 40.0790688
Easting (M) 283,808.2330		Longitude 93 17 36.6810468
Elevation (M)* 347.367		Ellipsoid Height (M): 319.200
		Geoid Height (M): -28.167

Northing (SFT) 716,346.4216		Location Description
Easting (SFT) 931,127.5111		TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND U.S. HIGHWAY 412 WEST, LOCATED IN ALPENA, GO EAST ON U.S. HIGHWAY 62 AND U.S. HIGHWAY 412 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 19.80 METERS EAST OF THE CENTER OF
Elevation (SFT)* 1,139.653		
Convergence Angle 0 45 9.7186407		
Scale Factor 1.000012660		
Elevation Adjust. Factor 0.9999454898		
Combined Adjust. Factor 0.9999581491		

SUPERCEDED CONTROL				
Horizontal Datum NAD 83 (1986)				
Latitude 36 17 40.0938072				
Longitude 93 17 36.6781776				
Ellipsoid Height: 318.371				
Grid Northing (Meters) 218,343.2793				
Grid Easting (Meters) 283,808.3105				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	LIGHT POLE	268	12.15	39.9	AZ Mark Station 050001A
MK # 2	TELEPHONE POLE	331	37.00	121.4	Geodetic Azimuth 81 19 33
MK # 3	GUY POLE	66	7.70	25.3	Grid Azimuth 82 04 43

Area Reference Monuments (used for Processing) Ref Mon # 1 CNWM Ref Mon # 2 ARHR Ref Mon # 3 080031, 080031A	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050001A	Date Monumented 4/21/1997	Monumented By AHTD	County BOONE	Route 62	Job Number: 090219,R90104,090202
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	218,387.1910	
Easting (M)	284,127.0710	
Elevation (M)*	346.688	
Northing (SFT)	716,491.9758	
Easting (SFT)	932,173.5654	
Elevation (SFT)*	1,137.426	

Convergence Angle	0	45	2.2973962
Scale Factor	1.000012755		
Elevation Adjust. Factor	0.9999455963		
Combined Adjust. Factor	0.9999583506		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	36	17	41.6688468
Longitude	93	17	23.9247024
Ellipsoid Height:	317.683		
Grid Northing (Meters)	218,387.6492		
Grid Easting (Meters)	284,127.1483		

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	FLAG POLE	24	19.39	63.6	
MK # 2	FIRE HYDRANT	180	30.21	99.1	
MK # 3	1.00 METER ELM	70	25.00	82.0	

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHR Ref Mon # 2 CNWM Ref Mon # 3 080031, 080031A	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND U.S. HIGHWAY 412 WEST, LOCATED IN ALPENA, GO EAST ON U.S. HIGHWAY 62 AND U.S. HIGHWAY 412 FOR 0.64 KM (0.40 MI) TO THE JUNCTION OF DENTON STREET AND THE STATION ON THE LEFT. THE STATION IS 23	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 17 41.6539500
Longitude	93 17 23.9275572
Ellipsoid Height (M):	318.519
Geoid Height (M):	-28.169

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050002	Date Monumented 7/1/1993	Monumented By Aerial Data Service	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 218,313.9700		Latitude 36 17 39.0608844
Easting (M) 283,615.7360		Longitude 93 17 44.3797476
Elevation (M)* 349.414		Ellipsoid Height (M): 320.454
Northing (SFT) 716,251.7499		Geoid Height (M): -28.960
Easting (SFT) 930,495.9605		
Elevation (SFT)* 1,146.369		

Convergence Angle 0 45 14.1985080	Location Description MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP ON 36" x 3/4" REBAR 0.1 MILE EAST OF JUNCTION HIGHWAY 62 AND HIGHWAY 412 IN ALPENA AT EAST MOST DRIVE OF CIRCLE DRIVE ON NORTH SIDE OF HIGHWAY 62.
Scale Factor 1.000012599	
Elevation Adjust. Factor 0.9999451686	
Combined Adjust. Factor 0.9999577669	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN SW FACE OF POLE	50	10.50	34.4	AZ Mark Station 050003A
MK # 2	REFLECTOR POST	145	13.46	44.1	Geodetic Azimuth 77 34 43.2
MK # 3	60D IN E FACE OF EAST MOST GUARD POS	275	22.21	72.9	Grid Azimuth 76 49 29.0

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050003A	Date Monumented 7/1/1993	Monumented By Aerial Data Service	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum	NAD 83 (1986)	Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M)	218,380.5200	Latitude
Easting (M)	283,900.0230	Longitude
Elevation (M)*	346.582	Ellipsoid Height (M):
Northing (SFT)	716,470.0894	Geoid Height (M):
Easting (SFT)	931,428.6588	
Elevation (SFT)*	1,137.078	

Convergence Angle	0	45	7.5897816
Scale Factor	1.000012736		
Elevation Adjust. Factor	0.9999456129		
Combined Adjust. Factor	0.9999583482		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	SW CORNER OF BUILDING	65		17.74	58.2
MK # 2	60D NAIL IN POLE	225		17.56	57.6
MK # 3	60D NAIL IN POLE	165		22.39	73.4

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	NONE						
Ref Mon # 2	NONE						
Ref Mon # 3	NONE						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050004	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 218,128.1231		Latitude 36 17 33.7409124
Easting (M) 285,288.2360		Longitude 93 16 37.2612576
Elevation (M)* 351.462		Ellipsoid Height (M): 322.493
Northing (SFT) 715,642.0172		Geoid Height (M): -28.969
Easting (SFT) 935,983.1543		
Elevation (SFT)* 1,153.088		

Convergence Angle 0 44 35.1423172	Location Description
Scale Factor 1.000012280	MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP ON A 36"x 3/4" REBAR APPROXIMATELY 10' NORTH OF NORTH EDGE OF PAVEMENT APPROX 1.1 MILES EAST OF JUNCTION HIGHWAY 412 AND HIGHWAY 62 IN ALPENA.
Elevation Adjust. Factor 0.9999448472	
Combined Adjust. Factor 0.9999571265	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	60D NAIL IN TOP OF BRACE POST	65		34.14	112.0
MK # 2	AHTD R/W MARKER	350		12.62	41.4
MK # 3	PK-SHINER	210		4.37	14.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="NONE"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="NONE"/> Ref Mon # 3 <input style="width: 150px;" type="text" value="NONE"/>	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050005A	Date Monumented 7/1/1993	Monumented By Aerial Data Service	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 218,061.5980		Latitude 36 17 31.3658664
Easting (M) 284,773.6560		Longitude 93 16 57.8468316
Elevation (M)* 345.437		Ellipsoid Height (M): 316.472
Northing (SFT) 715,423.7594		Geoid Height (M): -28.965
Easting (SFT) 934,294.9031		
Elevation (SFT)* 1,133.321		

Convergence Angle	0	44	47.1210447
Scale Factor	1.000012138		
Elevation Adjust. Factor	0.9999457926		
Combined Adjust. Factor	0.9999579300		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station 050004
MK # 2	NONE				Geodetic Azimuth 83 22 48.1
MK # 3	NONE				Grid Azimuth 82 38 01

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	NONE						
Ref Mon # 2	NONE						
Ref Mon # 3	NONE						

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050006	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 218,222.7651		Latitude 36 17 37.8362832
Easting (M) 287,751.2880		Longitude 93 14 58.6092768
Elevation (M)* 383.972		Ellipsoid Height (M): 354.987
Northing (SFT) 715,952.5218		Geoid Height (M): -28.985
Easting (SFT) 944,064.0174		
Elevation (SFT)* 1,259.748		

Convergence Angle 0 43 37.7368156	Scale Factor 1.000012526
Elevation Adjust. Factor 0.9999397459	Combined Adjust. Factor 0.9999522711

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP OF 36"x 3/4" REBAR IN NORTH R/W OF HIGHWAY 62 APPROX 0.2 MILE WEST OF ABOVE DESCRIBED MONUMENT APPROX 100' EAST OF CULVERT AND APPROX 150' WEST OF DRIVE NORTH AND METAL PIPE GATE.				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN EAST FACE OF POLE	270	24.11	79.1	AZ Mark Station 050007A
MK # 2	ORANGE "T" POST	355	3.82	12.5	Geodetic Azimuth 82 16 15.7
MK # 3	PK SHINER	190	3.12	10.2	Grid Azimuth 81 32 38

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050007A	Date Monumented 7/1/1993	Monumented By Aerial Data Service	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 218,265.5591		Latitude 36 17 39.3428724
Easting (M) 288,039.1350		Longitude 93 14 47.0961276
Elevation (M)* 390.574		Ellipsoid Height (M): 361.585
		Geoid Height (M): -28.987

Northing (SFT) 716,092.9218	Easting (SFT) 945,008.3954	Location Description MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP ON 36"x 3/4" REBAR SE OF "BAILEY MONUMENT WORKS" BUILDING IN NORTH R/W HIGHWAY 62.
Elevation (SFT)* 1,281.408		

Convergence Angle 0 43 31.0373241	Scale Factor 1.000012616	
Elevation Adjust. Factor 0.9999387100	Combined Adjust. Factor 0.9999513252	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN EAST FACE OF POLE	271	22.72	74.5	AZ Mark Station 050006
MK # 2	60D NAIL AT TOP OF CORNER POST	350	7.17	23.5	Geodetic Azimuth 262 16 09.0
MK # 3	NONE				Grid Azimuth 261 32 38

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050008	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 217,905.7229		Latitude 36 17 28.4864496
Easting (M) 290,045.6640		Longitude 93 13 26.5088352
Elevation (M)* 436.044		Ellipsoid Height (M): 407.049
		Geoid Height (M): -28.995

Northing (SFT) 714,912.3592		
Easting (SFT) 951,591.4826		
Elevation (SFT)* 1,430.588		

Convergence Angle 0 42 44.1436489		
Scale Factor 1.000011965		
Elevation Adjust. Factor 0.9999315752		
Combined Adjust. Factor 0.9999435393		

SUPERCEDED CONTROL												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Horizontal Datum</td> <td style="width: 75%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)	
Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
Grid Northing (Meters)												
Grid Easting (Meters)												

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	PK SHINER		0	4.91	16.1
MK # 2	60D NAIL IN 4" WOOD FENCE POST			3.69	12.1
MK # 3	60D NAIL IN 4" WOOD FENCE POST			4.84	15.9

Area Reference Monuments (used for Processing)	Comments						
<table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	
Ref Mon # 1	NONE						
Ref Mon # 2	NONE						
Ref Mon # 3	NONE						

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050009A	Date Monumented 7/1/1993	Monumented By Aerial Data Service	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Vertical Determined By:</td> <td colspan="2">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>36</td> <td>17 30.6755664</td> </tr> <tr> <td>Longitude</td> <td>93</td> <td>13 5.1035592</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>419.615</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.999</td> <td></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Location Description</th> </tr> <tr> <td> MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP ON 36" x 3/4" REBAR SET IN A CONCRETE POST IN THE NORTH R/W APPROX 2.25 MILES WEST OF JCT HIGHWAY 62 AND HIGHWAY 65 NE OF YELLOW FRAME HOUSE AND 62 FRUIT STAND. </td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	36	17 30.6755664	Longitude	93	13 5.1035592	Ellipsoid Height (M):	419.615		Geoid Height (M):	-28.999		Location Description	MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP ON 36" x 3/4" REBAR SET IN A CONCRETE POST IN THE NORTH R/W APPROX 2.25 MILES WEST OF JCT HIGHWAY 62 AND HIGHWAY 65 NE OF YELLOW FRAME HOUSE AND 62 FRUIT STAND.
Vertical Determined By:	LEVEL - Unkown Quality																								
Elevation Datum:	NAVD 88																								
Geoid Datum:																									
Latitude	36		17 30.6755664																						
Longitude	93		13 5.1035592																						
Ellipsoid Height (M):	419.615																								
Geoid Height (M):	-28.999																								
Location Description																									
MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP ON 36" x 3/4" REBAR SET IN A CONCRETE POST IN THE NORTH R/W APPROX 2.25 MILES WEST OF JCT HIGHWAY 62 AND HIGHWAY 65 NE OF YELLOW FRAME HOUSE AND 62 FRUIT STAND.																									
Horizontal Datum	NAD 83 (1986)																								
Northing (M)	217,966.5710																								
Easting (M)	290,580.5910																								
Elevation (M)*	448.614																								
Northing (SFT)	715,111.9917																								
Easting (SFT)	953,346.4890																								
Elevation (SFT)*	1,471.828																								

Convergence Angle	0	42	31.6879375
Scale Factor	1.000012096		
Elevation Adjust. Factor	0.9999296028		
Combined Adjust. Factor	0.9999416979		

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="2"></th> <th rowspan="2">Description</th> <th rowspan="2">Azimuth</th> <th colspan="2">Distance</th> </tr> <tr> <th>Meters</th> <th>Feet</th> </tr> <tr> <td>MK # 1</td> <td>60D NAIL IN POWER POLE</td> <td>280</td> <td>17.91</td> <td>58.7</td> </tr> <tr> <td>MK # 2</td> <td>PK-SHINER ON NORTH SHOULDER</td> <td>180</td> <td>4.01</td> <td>13.1</td> </tr> <tr> <td>MK # 3</td> <td>TELEPHONE BOX</td> <td>65</td> <td>19.97</td> <td>65.5</td> </tr> </table>		Description	Azimuth	Distance		Meters	Feet	MK # 1	60D NAIL IN POWER POLE	280	17.91	58.7	MK # 2	PK-SHINER ON NORTH SHOULDER	180	4.01	13.1	MK # 3	TELEPHONE BOX	65	19.97	65.5	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>AZ Mark Station</td> <td>050008</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>264 13 09.7</td> </tr> <tr> <td>Grid Azimuth</td> <td>263 30 38.0</td> </tr> </table>	AZ Mark Station	050008	Geodetic Azimuth	264 13 09.7	Grid Azimuth	263 30 38.0
				Description	Azimuth	Distance																							
	Meters	Feet																											
MK # 1	60D NAIL IN POWER POLE	280	17.91	58.7																									
MK # 2	PK-SHINER ON NORTH SHOULDER	180	4.01	13.1																									
MK # 3	TELEPHONE BOX	65	19.97	65.5																									
AZ Mark Station	050008																												
Geodetic Azimuth	264 13 09.7																												
Grid Azimuth	263 30 38.0																												

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td>Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Area Reference Monuments (used for Processing)	Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)										
Ref Mon # 1	NONE									
Ref Mon # 2	NONE									
Ref Mon # 3	NONE									
Comments										

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050010	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 218,012.4770		Latitude 36 17 33.2993832
Easting (M) 293,445.2240		Longitude 93 11 10.3336512
Elevation (M)* 372.816		Ellipsoid Height (M): 343.801
		Geoid Height (M): -28.015

Northing (SFT) 715,262.6016	Easting (SFT) 962,744.8724	Location Description MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP ON 36" x 3/4" REBAR SET IN A CONCRETE POST IN R/W ON SOUTH SIDE OF HIGHWAY 62 STATION IS 0.25 MILE WEST-SOUTHWEST OF JCT HIGHWAY 62 AND HIGHWAY 65.
Elevation (SFT)* 1,223.147		

Convergence Angle 0 41 24.9034281	Scale Factor 1.000012254	
Elevation Adjust. Factor 0.9999414964	Combined Adjust. Factor 0.9999537497	

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	PK NAIL-SHINER ON SOUTH SHOULDER	330	9.04	29.6	AZ Mark Station 050011A
MK # 2	60D NAIL IN POLE WITH TRANSFORMER	230	40.75	133.7	Geodetic Azimuth 50 32 18.9
MK # 3	"T" POST AT N END OF GATE AT FC COR	90	2.93	9.6	Grid Azimuth 49 50 54.0

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050011A	Date Monumented 7/1/1993	Monumented By Aerial Data Service	County BOONE	Route 412	Job Number: 9936,009947
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td colspan="2">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>36</td> <td>17 44.8678176</td> </tr> <tr> <td>Longitude</td> <td>93</td> <td>10 53.8016592</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>329.450</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-29.021</td> <td></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	36	17 44.8678176	Longitude	93	10 53.8016592	Ellipsoid Height (M):	329.450		Geoid Height (M):	-29.021	
Vertical Determined By:	LEVEL - Unkown Quality																						
Elevation Datum:	NAVD 88																						
Geoid Datum:																							
Latitude	36		17 44.8678176																				
Longitude	93		10 53.8016592																				
Ellipsoid Height (M):	329.450																						
Geoid Height (M):	-29.021																						
Horizontal Datum NAD 83 (1986)																							
Northing (M)	218,364.0750																						
Easting (M)	293,861.9950																						
Elevation (M)*	358.469																						
Northing (SFT)	716,416.1361																						
Easting (SFT)	964,112.2286																						
Elevation (SFT)*	1,176.077																						
Convergence Angle	0 41 15.2834763																						
Scale Factor	1.000012949																						
Elevation Adjust. Factor	0.9999437477																						
Combined Adjust. Factor	0.9999566960																						

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks												
Description			Azimuth	Distance								
				Meters	Feet							
MK # 1	60D NAIL IN SOUTHWEST FACE OF 14" OA	45 00 00	17.86	58.6	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">AZ Mark Station</td> <td>050010</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>230 32 09 3</td> </tr> <tr> <td>Grid Azimuth</td> <td>229 50 54</td> </tr> </table>		AZ Mark Station	050010	Geodetic Azimuth	230 32 09 3	Grid Azimuth	229 50 54
AZ Mark Station	050010											
Geodetic Azimuth	230 32 09 3											
Grid Azimuth	229 50 54											
MK # 2	60D NAIL IN NORTHWEST FACE OF 6" OAK	140	15.63	51.3								
MK # 3	60D IN NORTHWEST MOST POST OF BEAR CREEK SIGN	180	38.72	127.0								

Area Reference Monuments (used for Processing)	Comments						
<table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>BURLINGTON RESET</td> </tr> <tr> <td>Ref Mon # 2</td> <td>THOMASON</td> </tr> <tr> <td>Ref Mon # 3</td> <td>050009A & 050010</td> </tr> </table>	Ref Mon # 1	BURLINGTON RESET	Ref Mon # 2	THOMASON	Ref Mon # 3	050009A & 050010	
Ref Mon # 1	BURLINGTON RESET						
Ref Mon # 2	THOMASON						
Ref Mon # 3	050009A & 050010						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050012	Date Monumented 6/26/1996	Monumented By AHTD	County BOONE	Route 65	Job Number: 0098, Mobile LiDAR-CLS, 090
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	201,753.3376	
Easting (M)	311,314.4363	
Elevation (M)*		
Northing (SFT)	661,919.0751	
Easting (SFT)	1,021,370.7798	
Elevation (SFT)*		

Convergence Angle	0	34	24.4215265
Scale Factor	0.999984220		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	36	8	52.2350628
Longitude	92	59	7.7277408
Ellipsoid Height:	304.411		
Grid Northing (Meters)	201,753.6700		
Grid Easting (Meters)	311,314.5190		

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE POLE	150	21.98	72.1	
MK # 2	METAL PIPE FENCE POST	326	27.86	91.4	
MK # 3	NONE				

Area Reference Monuments (used for Processing) Ref Mon # 1 VERONA Ref Mon # 2 BURLINGTON Ref Mon # 3 640002	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid96
Latitude	36 8 52.2242520
Longitude	92 59 7.7309160
Ellipsoid Height (M):	305.351
Geoid Height (M):	-28.223

Location Description
TO REACH THE STATION FROM THE POST OFFICE IN VALLEY SPRINGS, GO SOUTH ON U.S. HWY-65 FOR 0.72 KM. (0.45 MI.) TO THE STATION ON THE RIGHT AT A PAVED PULL OFF. 17.45 METERS SOUTHWEST OF THE CENTER OF HWY-65 AND 0.74 METERS NORTHEAST OF A WITNESS POST SET NEAR A BARBED WIRE FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "050012 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	050012A
Geodetic Azimuth	328 49 03.97589
Grid Azimuth	329 23 28.36283

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050012 - ADS	Date Monumented 4/1/1994	Monumented By Aerial Data Service	County BOONE	Route 65	Job Number: 9936
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 220,126.0510		Geoid Datum:
Easting (M) 292,277.3890		Latitude 36 18 41.4046008
Elevation (M)* 414.501		Longitude 93 11 58.1635140
Northing (SFT) 722,196.8857		Ellipsoid Height (M): 385.472
Easting (SFT) 958,913.4004		Geoid Height (M): -29.029
Elevation (SFT)* 1,359.909		

Convergence Angle 0 41 52.7355835	Scale Factor 1.000016391	Location Description MONUMENT IS AHTD CAP ATOP 36" DEEP CONCRETE POST ON EAST SIDE OF US HIGHWAY 65 OPPOSITE GUARDRAIL AND ON WEST SIDE OF AUTO SALVAGE YARD. STATION IS APPROX. 200' SOUTH OF INTERSECTION OF US HWY. 65 AND BOONE COUNTY ROAD 13 IN SE 1/4 OF SECTION 10, T. 19N, R. 21W.
Elevation Adjust. Factor 0.9999349555	Combined Adjust. Factor 0.9999513454	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TO CENTER OF CATCH BASIN		5.08	16.7	050013A
MK # 2	60D IN SOUTH FACE OF UTILITY POLE		7.96	26.1	324 06 28.7356
MK # 3	TO EDGE OF US HWY. 65		3.33	10.9	323 24 36.00000

Area Reference Monuments (used for Processing) Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 THOMASON Ref Mon # 3 050009A & 050010	Comments <div style="height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050012A	Date Monumented 6/26/1996	Monumented By AHTD	County BOONE	Route 65	Job Number: 0098, Mobile LiDAR-CLS, 090
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	202,094.0880
Easting (M)	311,112.8380
Elevation (M)*	
Northing (SFT)	663,037.0204
Easting (SFT)	1,020,709.3693
Elevation (SFT)*	

Convergence Angle	0	34	29.1935859
Scale Factor	0.999984745		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	36	9	3.2243328
Longitude	92	59	15.9282420
Ellipsoid Height:	299.757		
Grid Northing (Meters)	202,094.4209		
Grid Easting (Meters)	311,112.9290		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL PIPE FENCE POST	138	28.04	92.0
MK # 2	METAL PIPE FENCE POST	320	40.80	133.9
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 VERONA Ref Mon # 2 BURLINGTON Ref Mon # 3 640002	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid96
Latitude	36 9 3.2135040
Longitude	92 59 15.9317520
Ellipsoid Height (M):	300.700
Geoid Height (M):	-28.221

Location Description
TO REACH THE STATION FROM THE POST OFFICE IN VALLEY SPRINGS, GO SOUTH ON U.S. HWY-65 FOR 0.32 KM. (0.20 MI.) TO THE STATION ON THE LEFT. 19.20 METERS NORTHEAST OF THE CENTER OF HWY-65 AND 0.90 METERS SOUTHWEST OF A WITNESS POST SET IN A BARBED WIRE FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "050012A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	050012
Geodetic Azimuth	148 48 59.13847
Grid Azimuth	149 23 28.36283

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050013A	Date Monumented 4/1/1994	Monumented By Aerial Data Service	County BOONE	Route 65	Job Number: 9936
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td colspan="2">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>36</td> <td>18 59.7223512</td> </tr> <tr> <td>Longitude</td> <td>93</td> <td>12 15.3991116</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>393.425</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-29.032</td> <td></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	36	18 59.7223512	Longitude	93	12 15.3991116	Ellipsoid Height (M):	393.425		Geoid Height (M):	-29.032	
Vertical Determined By:	LEVEL - Unkown Quality																						
Elevation Datum:	NAVD 88																						
Geoid Datum:																							
Latitude	36		18 59.7223512																				
Longitude	93		12 15.3991116																				
Ellipsoid Height (M):	393.425																						
Geoid Height (M):	-29.032																						
Horizontal Datum NAD 83 (1986)																							
Northing (M)	220,695.8850																						
Easting (M)	291,854.3500																						
Elevation (M)*	422.456																						
Northing (SFT)	724,066.4160																						
Easting (SFT)	957,525.4800																						
Elevation (SFT)*	1,386.008																						
Convergence Angle	0 42 2.7649627																						
Scale Factor	1.000017523																						
Elevation Adjust. Factor	0.9999337073																						
Combined Adjust. Factor	0.9999512291																						

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks												
Description			Azimuth	Distance								
				Meters	Feet							
MK # 1	TO SW CORNER OF CHURCH			29.95	98.3	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">AZ Mark Station</td> <td>050012</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>144 06 38.765</td> </tr> <tr> <td>Grid Azimuth</td> <td>173 24 36.000</td> </tr> </table>	AZ Mark Station	050012	Geodetic Azimuth	144 06 38.765	Grid Azimuth	173 24 36.000
AZ Mark Station	050012											
Geodetic Azimuth	144 06 38.765											
Grid Azimuth	173 24 36.000											
MK # 2	60D IN WEST FACE OF POWER POLE			5.62	18.4							
MK # 3	60D NAIL IN LEFT LANE ENDS SIGN POLE			52.24	171.4							

Area Reference Monuments (used for Processing)	Comments						
<table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>BURLINGTON RESET</td> </tr> <tr> <td>Ref Mon # 2</td> <td>THOMASON</td> </tr> <tr> <td>Ref Mon # 3</td> <td>050009A & 050010</td> </tr> </table>	Ref Mon # 1	BURLINGTON RESET	Ref Mon # 2	THOMASON	Ref Mon # 3	050009A & 050010	
Ref Mon # 1	BURLINGTON RESET						
Ref Mon # 2	THOMASON						
Ref Mon # 3	050009A & 050010						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050014	Date Monumented 4/1/1994	Monumented By Bureau of Transportation Data Service	County BOONE	Route 65	Job Number: 9936
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 222,787.0441		Latitude 36 20 7.6590816
Easting (M) 292,107.6420		Longitude 93 12 6.2691300
Elevation (M)* 417.223		Ellipsoid Height (M): 388.169
Northing (SFT) 730,927.1605		Geoid Height (M): -29.054
Easting (SFT) 958,356.4888		
Elevation (SFT)* 1,368.839		

Convergence Angle	0	41	57.4522344
Scale Factor	1.000021789		
Elevation Adjust. Factor	0.9999345284		
Combined Adjust. Factor	0.9999563160		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN NW FACE OF SIGN POLE		16.74	54.9	AZ Mark Station 050015A
MK # 2	TO EDGE OF US HWY. 65		8.43	27.7	Geodetic Azimuth 341 30 26.4522
MK # 3	TO PK AND SHINER		8.17	26.8	Grid Azimuth 340 48 29.0000

Area Reference Monuments (used for Processing) Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 THOMASON Ref Mon # 3 050009A & 050010	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050015A	Date Monumented 4/1/1994	Monumented By Bureau of Transportation Data Service	County BOONE	Route 65	Job Number: 9936
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 223,206.6504		Geoid Datum:
Easting (M) 291,961.5855		Latitude 36 20 21.2130060
Elevation (M)* 412.102		Longitude 93 12 12.3307524
Northing (SFT) 732,303.8189		Ellipsoid Height (M): 383.046
Easting (SFT) 957,877.3018		Geoid Height (M): -29.057
Elevation (SFT)* 1,352.038		

Convergence Angle 0 42 0.9794872	Scale Factor 1.000022653	Location Description AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR SET IN A CONCRETE POST ON EAST SIDE OF HWY. 65 - 2' SW OF AHTD WITNESS POST IN THE NW SECTION 3, T 19N, R 21W
Elevation Adjust. Factor 0.9999353319	Combined Adjust. Factor 0.9999579835	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN SOUTH FACE OF SIGN POLE		7.47	24.5	AZ Mark Station 050014
MK # 2	60D NAIL IN NORTH FACE OF POLE		18.14	59.5	Geodetic Azimuth 161 30 29.979
MK # 3	PK AND SHINER AT EAST EDGE OF ROAD		15.55	51.0	Grid Azimuth 160 48 29.000

Area Reference Monuments (used for Processing) Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 THOMASON Ref Mon # 3 050009A & 050010	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050016	Date Monumented 4/1/1994	Monumented By Bureau of Transportation Data Service	County BOONE	Route 65	Job Number: 9936
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td>LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td>NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td>36 22 4.1516400</td> </tr> <tr> <td>Longitude</td> <td>93 13 13.4999112</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>396.878</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-29.081</td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality	Elevation Datum:	NAVD 88	Geoid Datum:		Latitude	36 22 4.1516400	Longitude	93 13 13.4999112	Ellipsoid Height (M):	396.878	Geoid Height (M):	-29.081
Vertical Determined By:	LEVEL - Unkown Quality															
Elevation Datum:	NAVD 88															
Geoid Datum:																
Latitude	36 22 4.1516400															
Longitude	93 13 13.4999112															
Ellipsoid Height (M):	396.878															
Geoid Height (M):	-29.081															
Horizontal Datum	NAD 83 (1986)															
Northing (M)	226,398.2211															
Easting (M)	290,475.5718															
Elevation (M)*	425.958															
Northing (SFT)	742,774.8304															
Easting (SFT)	953,001.9385															
Elevation (SFT)*	1,397.497															
Convergence Angle	0 42 36.5737674															
Scale Factor	1.000029357															
Elevation Adjust. Factor	0.9999331578															
Combined Adjust. Factor	0.9999625128															

SUPERCEDED CONTROL	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Location Description</th> </tr> <tr> <td>AHTD 2 1/2" ALUMINUM CAP IN 36" X 3/4" REBAR IN A CONCRETE POST ON WEST SIDE OF HWY. 65 IN NW 1/4 SECTION 28, T 20N, R 21W APPROX. 5' EAST OF AHTD WITNESS POST.</td> </tr> </table>	Location Description	AHTD 2 1/2" ALUMINUM CAP IN 36" X 3/4" REBAR IN A CONCRETE POST ON WEST SIDE OF HWY. 65 IN NW 1/4 SECTION 28, T 20N, R 21W APPROX. 5' EAST OF AHTD WITNESS POST.										
Location Description													
AHTD 2 1/2" ALUMINUM CAP IN 36" X 3/4" REBAR IN A CONCRETE POST ON WEST SIDE OF HWY. 65 IN NW 1/4 SECTION 28, T 20N, R 21W APPROX. 5' EAST OF AHTD WITNESS POST.													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		
Horizontal Datum													
Latitude													
Longitude													
Ellipsoid Height:													
Grid Northing (Meters)													
Grid Easting (Meters)													

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	PK AND SHINER AT EDGE OF ROAD		2.91	9.5	AZ Mark Station 050017A
MK # 2	60D NAIL IN POLE		22.82	74.9	Geodetic Azimuth 332 31 20 5738
MK # 3	60D NAIL IN LIGHT POLE		26.19	85.9	Grid Azimuth 331 48 44.00

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>BURLINGTON RESET</td> </tr> <tr> <td>Ref Mon # 2</td> <td>THOMASON</td> </tr> <tr> <td>Ref Mon # 3</td> <td>050009A & 050010</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	BURLINGTON RESET	Ref Mon # 2	THOMASON	Ref Mon # 3	050009A & 050010	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	BURLINGTON RESET										
Ref Mon # 2	THOMASON										
Ref Mon # 3	050009A & 050010										
Comments											

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050017A	Date Monumented 4/1/1994	Monumented By Bureau of Transportation Data Service	County BOONE	Route 65	Job Number: 9936
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 226,666.5399		Latitude 36 22 12.7977636
Easting (M) 290,331.7741		Longitude 93 13 19.4012508
Elevation (M)* 429.165		Ellipsoid Height (M): 400.082
		Geoid Height (M): -29.083

Northing (SFT) 743,655.1397	Easting (SFT) 952,530.1622	Location Description AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR SET IN A CONCRETE POST NE OF HWY. 65 WEST OF TAN HOUSE IN SW 1/4, SECTION 21, T20N, R21W.
Elevation (SFT)* 1,408.019		

Convergence Angle 0 42 40.0077517	Scale Factor 1.000029932	
Elevation Adjust. Factor 0.9999326546	Combined Adjust. Factor 0.9999625845	

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TO SW CORNER OF CONCRETE PORCH		15.55	51.0	AZ Mark Station 050016
MK # 2	60D NAIL IN NW FACE OF POLE		30.62	100.5	Geodetic Azimuth 152 31 24.0078
MK # 3	PK & SHINER AR EDGE OF US HWY. 65		2.76	9.0	Grid Azimuth 151 48 44.0000

Area Reference Monuments (used for Processing) Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 THOMASON Ref Mon # 3 050009A & 050010	Comments
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050018	Date Monumented 4/1/1994	Monumented By Aerial Data Service	County BOONE	Route 65	Job Number: 9936
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 228,171.9633		Latitude 36 23 1.4933400
Easting (M) 289,988.0844		Longitude 93 13 33.9390948
Elevation (M)* 455.759		Ellipsoid Height (M): 426.663
Northing (SFT) 748,594.1829		Geoid Height (M): -29.096
Easting (SFT) 951,402.5736		
Elevation (SFT)* 1,495.269		

Convergence Angle 0 42 48.4673105	Location Description AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR ON EAST R/W HWY. 65 APPROX. 0.3 MILES NORTH OF BURLINGTON GENERAL STORE IN SE 1/4, SECTION 17, T20N, R21W, EAST IF DRIVEWAY WEST TO "SAMMY'S ROCK SHOP WITH AHTD WITNESS POST.
Scale Factor 1.000033201	
Elevation Adjust. Factor 0.9999284817	
Combined Adjust. Factor 0.9999616803	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	TO EDGE OF US HWY. 65		5.72	18.7		050019A
MK # 2	TO EDGE OF US HWY. 65		5.01	16.4		280 04 10.4673
MK # 3	60D NAIL IN NE FACE OF RR CORNER POST		25.95	85.1		272 12 2.0000

Area Reference Monuments (used for Processing) Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 THOMASON Ref Mon # 3 050009A & 050010	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050019A	Date Monumented 4/1/1994	Monumented By Bureau of Highway Engineering	County BOONE	Route 65	Job Number: 9936
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality Elevation Datum: NAVD 88 Geoid Datum: Latitude 36 23 10.1486292 Longitude 93 13 28.5686256 Ellipsoid Height (M): 422.718 Geoid Height (M): -29.100
Horizontal Datum	NAD 83 (1986)	
Northing (M)	228,437.0759	
Easting (M)	290,125.2479	
Elevation (M)*	451.818	
Northing (SFT)	749,463.9732	
Easting (SFT)	951,852.5842	
Elevation (SFT)*	1,482.340	
Convergence Angle	0 42 45.3422391	
Scale Factor	1.000033788	
Elevation Adjust. Factor	0.9999291001	
Combined Adjust. Factor	0.9999628857	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TO PIPE CORNER POST		9.13	30.0	AZ Mark Station 050018
MK # 2	TO PIPE CORNER POST		1.81	6.0	Geodetic Azimuth 208 04 07.3422
MK # 3	TO PIPE POST		1.27	4.2	Grid Azimuth 207 21 22.0

Area Reference Monuments (used for Processing) Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 THOMASON Ref Mon # 3 050009A & 050010	Comments <div style="border: 1px solid black; height: 100px; margin-top: 5px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050020	Date Monumented 4/1/1994	Monumented By Bureau of Transportation Data Service	County BOONE	Route 65	Job Number: 9936
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 231,782.4226		Latitude 36 24 58.7480616
Easting (M) 290,327.0352		Longitude 93 13 22.1399112
Elevation (M)* 456.416		Ellipsoid Height (M): 427.834
		Geoid Height (M): -29.134

Northing (SFT) 760,439.4981	Easting (SFT) 952,514.6147	Location Description AHTD 2 1/2" ALUMINUM CAP ON 36' X 3/4" REBAR SET IN A CONCRETE POST ON WEST SIDE OF HWY. 65. 2' N-NW OF AHTD WITNESS POST -NOTE- MONUMENT IS INTERVISIBLE WITH POINT 344 AND MAY BE INTERVISIBLE WITH MONUMENT 050030.
Elevation (SFT)* 1,497.425		

Convergence Angle 0 42 41.6013758	Scale Factor 1.000041302	
Elevation Adjust. Factor 0.9999283786	Combined Adjust. Factor 0.9999696776	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TO NORTHMOST GUARDRAIL POST		23.92	78.5	AZ Mark Station 050021A
MK # 2	TO CONCRETE R/W MARKER		15.53	50.9	Geodetic Azimuth 280 58 47.6014
MK # 3	NONE				Grid Azimuth 280 16 06.0

Area Reference Monuments (used for Processing) Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 THOMASON Ref Mon # 3 050009A & 050010	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 050021A	Date Monumented 4/1/1994	Monumented By Bureau of Highway Engineering	County BOONE	Route 65	Job Number: 9936
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 232,052.5099		Geoid Datum:
Easting (M) 288,836.1709		Latitude 36 25 6.9045060
Elevation (M)* 479.134		Longitude 93 14 22.1115804
Northing (SFT) 761,325.6096		Ellipsoid Height (M): 450.004
Easting (SFT) 947,623.3374		Geoid Height (M): -29.130
Elevation (SFT)* 1,571.959		

Convergence Angle 0 43 16.4988378	Scale Factor 1.000041878	Location Description AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR ON EAST SIDE OF PAVED RD. 1.7' WEST OF WITNESS POST, THE ROAD IS KNOWN AS "TOWER RD."
Elevation Adjust. Factor 0.9999248139	Combined Adjust. Factor 0.9999666888	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	PK & SHINER AT EDGE OF CR 18		4.91	16.1	AZ Mark Station 050020
MK # 2	PK & SHINER AT EDGE OF CR 18		5.84	19.2	Geodetic Azimuth 100 59 22.4988
MK # 3	NONE				Grid Azimuth 100 16 06.0

Area Reference Monuments (used for Processing) Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 THOMASON Ref Mon # 3 050009A & 050010	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 050022	Date Monumented 4/1/1994	Monumented By Aerial Data Service	County BOONE	Route 65	Job Number: 9936
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 234,520.5638		Geoid Datum:
Easting (M) 290,013.6412		Latitude 36 26 27.4417980
Elevation (M)* 411.344		Longitude 93 13 36.0870384
Northing (SFT) 769,422.8831		Ellipsoid Height (M): 382.175
Easting (SFT) 951,486.4212		Geoid Height (M): -29.159
Elevation (SFT)* 1,349.551		

Convergence Angle 0 42 49.7171970	Scale Factor 1.000047646
Elevation Adjust. Factor 0.9999354509	Combined Adjust. Factor 0.9999830938

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
AHTD 2 1/2 " ALUMINUM CAP ON 36" X 3/4" REBAR SIT IN CONCRETE POST IN OPEN FIELD SOUTH OF "L" CURVE IN DIRT ROAD IN SE 1/3, SECTION 29, T21N, R 21W, MONUMENT IS ON PROPERTY OWNED BY MR. COOK WHO LIVES IN SECOND HOUSE NORTH OF "L" CURVE.			

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	WITNESS POST BY 8" PINE		20.58	67.5	AZ Mark Station 050023A
MK # 2	60D NAIL IN NORTH FACE OF 6" HICKORY		48.40	158.8	Geodetic Azimuth 328 47 19.7172
MK # 3	60D NAIL IN NORTH FACE OF 6" HICKORY		30.63	100.5	Grid Azimuth 328 04 30.0

Area Reference Monuments (used for Processing) Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 THOMASON Ref Mon # 3 050009A & 050010	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 050023A	Date Monumented 4/1/1994	Monumented By Bureau of Transportation Data Service	County BOONE	Route 65	Job Number: 9936
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 234,759.0585		Latitude 36 26 35.1179808
Easting (M) 289,865.0470		Longitude 93 13 42.1721148
Elevation (M)* 418.475		Ellipsoid Height (M): 389.316
		Geoid Height (M): -29.160

Northing (SFT) 770,205.3444	Easting (SFT) 950,998.9084	Location Description AHTD 2 1/2" ALUMINUM CAP ON 36' X 3/4" REBAR SET IN CONCRETE POST IN NORTH R/W OF DIRT ROAD APPROX. 600' WEST OF "L" CURVE IN SE 1/4 SECTION 29, T21N, R 21W, NEAT HIGHEST POINT OF HILL.
Elevation (SFT)* 1,372.947		

Convergence Angle 0 42 53.2580976	Scale Factor 1.000048204	
Elevation Adjust. Factor 0.9999343319	Combined Adjust. Factor 0.9999825328	

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN NW FACE OF 12" CEDAR		11.00	36.1	AZ Mark Station 050022
MK # 2	60D NAIL IN NORTH FACE OF 4" CEDAR		6.90	22.6	Geodetic Azimuth 148 47 23.2581
MK # 3	NONE				Grid Azimuth 148 04 30.0

Area Reference Monuments (used for Processing) Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 THOMASON Ref Mon # 3 050009A & 050010	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 050024	Date Monumented 4/1/1994	Monumented By Bureau of Highway Engineering	County BOONE	Route 65	Job Number: 9936
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 236,275.1300		Latitude 36 27 24.5960172
Easting (M) 290,608.6678		Longitude 93 13 13.0714896
Elevation (M)* 399.304		Ellipsoid Height (M): 370.126
		Geoid Height (M): -29.178

Northing (SFT) 775,179.3223	Easting (SFT) 953,438.6043	Location Description AHTD 2 1/2" ALUMINUM CAP ON 36' X 3/4" REBAR SET IN A CONCRETE POST ON RIDGE APPROX. 450' WEST NE OF GRAVEL ROAD. IN SW 1/2 SECTION 21, T21N, R21W.
Elevation (SFT)* 1,310.050		

Convergence Angle 0 42 36.3244692	Scale Factor 1.000051833	
Elevation Adjust. Factor 0.9999373401	Combined Adjust. Factor 0.9999891699	

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN SW FACE OF 10" OAK TREE		48.14	157.9	AZ Mark Station 050024A
MK # 2	60 D NAIL IN WEST FACE OF 5" PINE TREE		44.92	147.4	Geodetic Azimuth 351 17 31.3245
MK # 3	NONE				Grid Azimuth 350 34 55.000

Area Reference Monuments (used for Processing) Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 THOMASON Ref Mon # 3 050009A & 050010	Comments
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 050025A	Date Monumented 4/1/1994	Monumented By Bureau of Transportation Data Service	County BOONE	Route 65	Job Number: 9936
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 237,390.6238		Latitude 36 28 0.7056012
Easting (M) 290,423.6404		Longitude 93 13 21.0574560
Elevation (M)* 379.157		Ellipsoid Height (M): 349.970
		Geoid Height (M): -29.187

Northing (SFT) 778,839.0716		Location Description
Easting (SFT) 952,831.5602		AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR SET IN A CONCRETE POST NEAT NORTH 1/32ND CORNER SECTION 20+21, T21N, R21W.
Elevation (SFT)* 1,243.951		
Convergence Angle 0 42 40.9714961		
Scale Factor 1.000054518		
Elevation Adjust. Factor 0.9999405014		
Combined Adjust. Factor 0.9999950162		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TO SE CORNER OF CONCRETE FOUNDATION		28.29	92.8	AZ Mark Station 050024
MK # 2	60D NAIL IN EAST FACE OF TRANSFORMER		52.34	171.7	Geodetic Azimuth 171 17 35.9715
MK # 3	NONE				Grid Azimuth 170 34 55.0

Area Reference Monuments (used for Processing) Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 THOMASON Ref Mon # 3 050009A & 050010	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050026	Date Monumented 4/1/1994	Monumented By Bureau of Highway Engineering	County BOONE	Route 65	Job Number: 9936
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 239,048.0493		Geoid Datum:
Easting (M) 290,531.4921		Latitude 36 28 54.5117700
Elevation (M)* 404.315		Longitude 93 13 17.5519344
Northing (SFT) 784,276.8084		Ellipsoid Height (M): 375.113
Easting (SFT) 953,185.4037		Geoid Height (M): -29.202
Elevation (SFT)* 1,326.490		

Convergence Angle 0 42 38.9316361	Scale Factor 1.000058576	Location Description AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR IN CONCRETE POST. 1.7' SOUTH OF AHTD WITNESS POST, ON TOP OF RIDGE EAST OF LARGE DRAIN IN NW 1/4, SECTION 16, T21N, R21W.
Elevation Adjust. Factor 0.9999365538	Combined Adjust. Factor 0.9999951261	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN W FACE OF TREE		49.49	162.4	050027A
MK # 2	60D NAIL IN N FACE OF 24" MAPLE		50.13	164.5	234 58 30.9316
MK # 3	60D NAIL IN NE FACE OF 18" MAPLE		67.03	219.9	234 15 52.0000

Area Reference Monuments (used for Processing) Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 THOMASON Ref Mon # 3 050009A & 050010	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 050027A	Date Monumented 4/1/1994	Monumented By Bureau of Transportation Data Service	County BOONE	Route 65	Job Number: 9936
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 238,795.0522		Latitude 36 28 46.1634672
Easting (M) 290,179.8696		Longitude 93 13 31.5493212
Elevation (M)* 405.101		Ellipsoid Height (M): 375.902
		Geoid Height (M): -29.199

Northing (SFT) 783,446.7671		
Easting (SFT) 952,031.7888		
Elevation (SFT)* 1,329.069		

Convergence Angle 0 42 47.0767033		
Scale Factor 1.000057942		
Elevation Adjust. Factor 0.9999364305		
Combined Adjust. Factor 0.9999943688		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks				
	Description	Azimuth	Distance	
			Meters	
MK # 1	60D NAIL IN NW FACE OF 36" TWIN OAK TR		37.62	123.4
MK # 2	60D NAIL IN N FACE OF 30" OAK		38.68	126.9
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 THOMASON Ref Mon # 3 050009A & 050010	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050028	Date Monumented 4/1/1994	Monumented By Bureau of Transportation Data Service	County BOONE	Route 65	Job Number: 9936
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 240,182.5979		Latitude 36 29 31.3005480
Easting (M) 290,499.3297		Longitude 93 13 19.4094624
Elevation (M)* 421.372		Ellipsoid Height (M): 392.159
		Geoid Height (M): -29.212

Northing (SFT) 787,999.0733	Easting (SFT) 953,079.8842	Location Description AHTD 2 1/2" ALUMINUM CAP ON A 36" X 3/4" REBAR SET IN A CONCRETE POST ON WEST SIDE OF HWY. 65 APPROX. 0.25 MILE SOUTH OF JCT. HWY. 65 AND HWY. 14, NEAR 1/4 CORNER 8+9, T21N, R21W, STATION IS LOCATED AT WHAT APPEARS TO BE AN ABANDONED REST STOP.
Elevation (SFT)* 1,382.451		

Convergence Angle 0 42 40.0125301	Scale Factor 1.000061390	
Elevation Adjust. Factor 0.9999338774	Combined Adjust. Factor 0.9999952633	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NE CORNER OF CONCRETE SLAB		24.57	80.6	AZ Mark Station 050029A
MK # 2	SE CORNER OF CONCRETE SLAB		19.48	63.9	Geodetic Azimuth 358 47 59.0125
MK # 3	60D NAIL IN SOUTH FACE OF POST		27.52	90.3	Grid Azimuth 358 05 19.0000

Area Reference Monuments (used for Processing) Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 THOMASON Ref Mon # 3 05009A & 050010	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050030	Date Monumented 4/1/1994	Monumented By Aerial Data Service	County BOONE	Route 65	Job Number: 9936
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 230,590.5526		Latitude 36 24 19.7890812
Easting (M) 289,593.0837		Longitude 93 13 50.9987856
Elevation (M)* 468.146		Ellipsoid Height (M): 439.027
		Geoid Height (M): -29.119

Northing (SFT) 756,529.1713		
Easting (SFT) 950,106.6421		
Elevation (SFT)* 1,535.909		

Convergence Angle 0 42 58.3943297		
Scale Factor 1.000038574		
Elevation Adjust. Factor 0.9999265380		
Combined Adjust. Factor 0.9999651092		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN CORNER POST		21.23	69.6	AZ Mark Station 050021A
MK # 2	60D NAIL IN NORTH FACE OF ELM TREE		15.80	51.9	Geodetic Azimuth 333 20 37.3943
MK # 3	NONE				Grid Azimuth 332 37 39.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BURLINGTON RESET	
Ref Mon # 2 THOMASON	
Ref Mon # 3 050009A & 050010	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050031	Date Monumented 12/6/2002	Monumented By AHTD	County BOONE	Route 62	Job Number: 090152
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	208,319.9400	
Easting (M)	309,611.9640	
Elevation (M)*	357.736	
Northing (SFT)	683,463.0032	
Easting (SFT)	1,015,785.2519	
Elevation (SFT)*	1,173.673	

Convergence Angle	0	35	5.6092893
Scale Factor	0.999994878		
Elevation Adjust. Factor	0.9999438627		
Combined Adjust. Factor	0.9999387410		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	LOG MILE 2.00 SIGN POST	15	5.25	17.2	AZ Mark Station 050031A
MK # 2	CORNER POST	251	3.25	10.7	Geodetic Azimuth 90 21 30
MK # 3	WOOD FENCE POST	228	4.00	13.1	Grid Azimuth 90 56 36

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD HAR1 Ref Mon # 2 Russport Ref Mon # 3 Butler	Comments 3-Wire Levels were ran in Job 090198/090152 by S5111 and S5108 in June 2006.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050031A	Date Monumented 12/6/2002	Monumented By AHTD	County BOONE	Route 62	Job Number: 090152
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	208,311.6900	
Easting (M)	310,112.9830	
Elevation (M)*	366.938	
Northing (SFT)	683,435.9363	
Easting (SFT)	1,017,429.0117	
Elevation (SFT)*	1,203.863	

Convergence Angle	0	34	53.9367933
Scale Factor	0.999994872		
Elevation Adjust. Factor	0.9999424187		
Combined Adjust. Factor	0.9999372910		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	48	4.55	14.9
MK # 2	POWER POLE WITH GUY WIRE	280	13.50	44.3
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	AHTD HAR1
Ref Mon # 2	Russport
Ref Mon # 3	Butler

Comments
3-Wire Levels were ran in Job 090198/090152 by S5111 and S5108 in June 2006.

Location Description	
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND U.S. HIGHWAY 62, LOCATED IN BELLEFONTE JUST NORTH OF THE A.H.T.D. DISTRICT 9 HEADQUARTERS, GO EAST ON U.S. HIGHWAY 62 FOR 2.31 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.00 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 62 AND 2.88 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "050031A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>	

AZ Mark Station	050031
Geodetic Azimuth	270 21 42
Grid Azimuth	270 56 36

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050032	Date Monumented 10/30/2003	Monumented By AHTD	County NEWTON	Route 7	Job Number: 090225,090221
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	201,011.2079	
Easting (M)	299,069.4840	
Elevation (M)*	372.820	
Northing (SFT)	659,484.2713	
Easting (SFT)	981,197.1321	
Elevation (SFT)*	1,223.161	

Convergence Angle	0	39	9.2394824
Scale Factor	0.999982880		
Elevation Adjust. Factor	0.9999414958		
Combined Adjust. Factor	0.9999243768		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	158	19.05	62.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARP 2	3-Wire Level Elevations were ran from NGS BM L18 - TT107TX in Job 090225 by S5110 in May 2006
Ref Mon # 2 W.H. PHILLIPS	
Ref Mon # 3 ARHR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050032A	Date Monumented 10/30/2003	Monumented By AHTD	County NEWTON	Route 7	Job Number: 090225,090221
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	200,420.5969	
Easting (M)	299,214.6750	
Elevation (M)*	381.070	
Northing (SFT)	657,546.5750	
Easting (SFT)	981,673.4796	
Elevation (SFT)*	1,250.227	

Convergence Angle	0	39	5.7040073
Scale Factor	0.999981987		
Elevation Adjust. Factor	0.9999402013		
Combined Adjust. Factor	0.9999221893		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 206, SOUTH OF HARRISON, GO SOUTH ON HIGHWAY 7 0.35 MILES TO THE STATION ON THE RIGHT, WEST 12.5 METERS FROM THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.00 METERS OF A WITNESS POST. THE</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARP 2</p> <p>Ref Mon # 2 W.H. PHILLIPS</p> <p>Ref Mon # 3 ARHR</p>	<p style="text-align: center;">Comments</p> <p>3-Wire Level Elevations were ran from NGS BM L18 - TT107TX in Job 090225 by S5110 in May 2006</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050201	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 218,883.3251		Latitude 36 17 57.2611200
Easting (M) 282,986.4120		Longitude 93 18 9.9003744
Elevation (M)* 353.062		Ellipsoid Height (M): 324.100
		Geoid Height (M): -28.962

Northing (SFT) 718,119.7091		
Easting (SFT) 928,431.2534		
Elevation (SFT)* 1,158.338		

Convergence Angle	0	45	29.0489385
Scale Factor	1.000013697		
Elevation Adjust. Factor	0.9999445961		
Combined Adjust. Factor	0.9999582924		

SUPERCEDED CONTROL												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Horizontal Datum</td> <td style="width: 75%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)	
Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
Grid Northing (Meters)												
Grid Easting (Meters)												

Location Description			
STATION IS A 5/8" REBAR WITH ALUMINUM CAP.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station
MK # 2	NONE				Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</td> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Comments</td> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	NONE										
Ref Mon # 2	NONE										
Ref Mon # 3	NONE										
Comments											

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050203	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 218,709.1410		Latitude 36 17 51.8077716
Easting (M) 283,446.5200		Longitude 93 17 51.3694032
Elevation (M)* 338.514		Ellipsoid Height (M): 309.551
Northing (SFT) 717,548.2401		Geoid Height (M): -28.963
Easting (SFT) 929,940.7910		
Elevation (SFT)* 1,110.608		

Convergence Angle 0 45 18.2657825	
Scale Factor 1.000013367	
Elevation Adjust. Factor 0.9999468789	
Combined Adjust. Factor 0.9999602452	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
STATION IS A 5/8" REBAR WITH ALUMINUM CAP ON WEST SIDE OF WPA ROAD APPROX 600' NORTH OF BRIDGE.			

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN POLE		16.89	55.4	AZ Mark Station
MK # 2	NONE		5.88	19.3	Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050204	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 218,132.2680		Geoid Datum:
Easting (M) 283,344.1870		Latitude 36 17 33.0504864
Elevation (M)* 358.387		Longitude 93 17 55.1654268
Northing (SFT) 715,655.6159		Ellipsoid Height (M): 329.430
Easting (SFT) 929,605.0535		Geoid Height (M): -28.957
Elevation (SFT)* 1,175.808		

Convergence Angle 0 45 20.4746853	
Scale Factor 1.000012239	
Elevation Adjust. Factor 0.9999437606	
Combined Adjust. Factor 0.9999559989	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description	Azimuth	Distance	
		Meters	Feet
MK # 1 NONE			
MK # 2 NONE			
MK # 3 NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NONE	
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050205	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 218,600.2261		Latitude 36 17 48.7213584
Easting (M) 284,496.1880		Longitude 93 17 9.2473584
Elevation (M)* 341.641		Ellipsoid Height (M): 312.672
		Geoid Height (M): -28.969

Northing (SFT) 717,190.9085		
Easting (SFT) 933,384.5768		
Elevation (SFT)* 1,120.867		

Convergence Angle 0 44 53.7550013		
Scale Factor 1.000013181		
Elevation Adjust. Factor 0.9999463883		
Combined Adjust. Factor 0.9999595686		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
STATION IS A 5/8" REBAR WITH ALUMINUM CAP IN ALFALFA FIELD APPROX 500' EAST OF WEST END OF FIELD.			

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN SMALL 3" TREE		31.30	102.7	AZ Mark Station
MK # 2	SMALL PERSIMMON		28.10	92.2	Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NONE	
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050206	Date Monumented 7/1/1993	Monumented By Aerial Data Service	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 218,230.0541		Latitude 36 17 36.5626356
Easting (M) 284,141.5400		Longitude 93 17 23.2652472
Elevation (M)* 347.268		Ellipsoid Height (M): 318.305
		Geoid Height (M): -28.963

Northing (SFT) 715,976.4358	Easting (SFT) 932,221.0358	Location Description STATION IS A 5/8" REBAR WITH ALUMINUM CAP ON EAST SIDE OF SOUTH DENTON STREET WEST OF MOBILE HOME AND SOUTH OF MINISTORAGE BUILDING.
Elevation (SFT)* 1,139.328		

Convergence Angle 0 45 1.9119986	Scale Factor 1.000012449	
Elevation Adjust. Factor 0.9999455053	Combined Adjust. Factor 0.9999579536	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN POWER POLE		10.82	35.5	AZ Mark Station
MK # 2	60D IN POLE SE OF GRAY STONE HOUSE		23.96	78.6	Geodetic Azimuth
MK # 3	SW CORNER OF OFF WHITE MOBILE HOME		16.64	54.6	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050207	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 218,239.5661		Latitude 36 17 37.0662180
Easting (M) 284,601.3590		Longitude 93 17 4.8441300
Elevation (M)* 339.496		Ellipsoid Height (M): 310.530
Northing (SFT) 716,007.6431		Geoid Height (M): -28.966
Easting (SFT) 933,729.6253		
Elevation (SFT)* 1,113.830		

Convergence Angle	0	44	51.1927666
Scale Factor	1.000012479		
Elevation Adjust. Factor	0.9999467248		
Combined Adjust. Factor	0.9999592032		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL AT BASE OF FLAGGED "T" POST				AZ Mark Station
MK # 2	60D NAIL IN W FACE OF 18" OAK				Geodetic Azimuth
MK # 3	60D NAIL AT BASE OF FLAGGED "T" POST				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050208	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	217,747.3120	
Easting (M)	284,611.3780	
Elevation (M)*	340.565	
Northing (SFT)	714,392.6395	
Easting (SFT)	933,762.4960	
Elevation (SFT)*	1,117.337	

Convergence Angle	0	44	50.8093905
Scale Factor	1.000011524		
Elevation Adjust. Factor	0.9999465571		
Combined Adjust. Factor	0.9999580805		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN WEST FACE OF 8" ELM		53.68	176.1	AZ Mark Station
MK # 2	60D NAIL IN EAST FACE OF 8" POST		24.83	81.5	Geodetic Azimuth
MK # 3	60D NAIL IN EAST FACE OF 4" SUMACK		41.94	137.6	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050209	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 218,206.7561		Latitude 36 17 36.3444900
Easting (M) 285,413.6690		Longitude 93 16 32.2757112
Elevation (M)* 350.980		Ellipsoid Height (M): 322.010
		Geoid Height (M): -28.971

Northing (SFT) 715,899.9990		
Easting (SFT) 936,394.6790		
Elevation (SFT)* 1,151.507		

Convergence Angle 0 44 32.2412321		
Scale Factor 1.000012436		
Elevation Adjust. Factor 0.9999449228		
Combined Adjust. Factor 0.9999573581		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
STATION IS A 5/8" REBAR WITH ALUMINUM CAP IN PASTURE NW OF WHITE FARM HOUSE APPROX 500' NORTH OF HIGHWAY 62.			

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN 12" OAK		39.01	128.0	
MK # 2	NW CORNER OF SMALL WOOD BUILDING		50.17	164.6	
MK # 3	NONE				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NONE	
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050210	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 217,898.5760		Latitude 36 17 26.3836968
Easting (M) 285,500.5020		Longitude 93 16 28.6362192
Elevation (M)* 375.638		Ellipsoid Height (M): 346.546
		Geoid Height (M): -28.968

Northing (SFT) 714,888.9114	Easting (SFT) 936,679.5636	Location Description STATION IS A 5/8" REBAR WITH ALUMINUM CAP IN CLEARING ON NORTHSIDE OF TRACK ROAD APPROX 100' SW OF OLD 2 TON FORD TRUCK.
Elevation (SFT)* 1,232.406		

Convergence Angle 0 44 30.1234148	Scale Factor 1.000011839	
Elevation Adjust. Factor 0.9999410536	Combined Adjust. Factor 0.9999528919	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN 6" PERSIMMON		19.11	62.7	
MK # 2	60D NAIL IN SMALL EVERGREEN		26.21	86.0	
MK # 3	CENTER LINE OF TRACK ROAD		5.64	18.5	

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050211	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 218,420.0320		Latitude 36 17 43.6378416
Easting (M) 286,308.7750		Longitude 93 15 56.5163892
Elevation (M)* 367.059		Ellipsoid Height (M): 338.081
		Geoid Height (M): -28.978

Northing (SFT) 716,599.7217		
Easting (SFT) 939,331.3726		
Elevation (SFT)* 1,204.259		

Convergence Angle 0 44 11.4329138		
Scale Factor 1.000012875		
Elevation Adjust. Factor 0.9999423998		
Combined Adjust. Factor 0.9999552741		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
STATION IS A 5/8" REBAR WITH ALUMINUM CAP IN EAST R/W OF BLACKTOP ROAD APPROX 0.2 MILE N -NE OF HIGHWAY 62.				

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL		5.24	17.2	AZ Mark Station
MK # 2	60D NAIL		5.46	17.9	Geodetic Azimuth
MK # 3	WEST OF FENCE		1.62	5.3	Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NONE	
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050212	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 217,875.5340		Latitude 36 17 25.8836532
Easting (M) 286,091.2100		Longitude 93 16 4.9539756
Elevation (M)* 400.383		Ellipsoid Height (M): 371.411
Northing (SFT) 714,813.3145		Geoid Height (M): -28.972
Easting (SFT) 938,617.5781		
Elevation (SFT)* 1,313.590		

Convergence Angle	0	44	16.3427379
Scale Factor	1.000011810		
Elevation Adjust. Factor	0.9999371708		
Combined Adjust. Factor	0.9999489801		

SUPERCEDED CONTROL												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)	
Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
Grid Northing (Meters)												
Grid Easting (Meters)												

Location Reference Marks			
Description	Azimuth	Distance	
		Meters Feet	
MK # 1 NONE			AZ Mark Station
MK # 2 NONE			Geodetic Azimuth
MK # 3 NONE			Grid Azimuth

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	Comments
Ref Mon # 1	NONE						
Ref Mon # 2	NONE						
Ref Mon # 3	NONE						

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050213	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 218,404.3380		Latitude 36 17 43.5804936
Easting (M) 287,397.2990		Longitude 93 15 12.8872584
Elevation (M)* 400.035		Ellipsoid Height (M): 371.050
		Geoid Height (M): -28.985

Northing (SFT) 716,548.2323	Easting (SFT) 942,902.6385	Location Description STATION IS A 5/8" REBAR WITH ALUMINUM CAP APPROX 250' NW OF GATE ON SIDE OF HILL.
Elevation (SFT)* 1,312.448		

Convergence Angle 0 43 46.0451606	Scale Factor 1.000012871
Elevation Adjust. Factor 0.9999372254	Combined Adjust. Factor 0.9999500956

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN LONE 4" SYCAMORE		12.89	42.3	AZ Mark Station
MK # 2	60D NAIL IN 6" TREE		26.09	85.6	Geodetic Azimuth
MK # 3	60D NAIL IN 12" SYCAMORE		28.90	94.8	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050215	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 218,549.6561		Latitude 36 17 48.7215384
Easting (M) 288,435.8110		Longitude 93 14 31.3437084
Elevation (M)* 403.446		Ellipsoid Height (M): 374.454
		Geoid Height (M): -28.992

Northing (SFT) 717,024.9967		Location Description
Easting (SFT) 946,309.8233		STATION IS A 5/8" REBAR WITH ALUMINUM CAP IN CLEARING NORTH OF ANTIQUE STORE (LITTLE ARKANSAS ANTIQUES).
Elevation (SFT)* 1,323.639		
Convergence Angle 0 43 21.8710051		
Scale Factor 1.000013181		
Elevation Adjust. Factor 0.9999366902		
Combined Adjust. Factor 0.9999498703		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN 3" TREE		42.92	140.8	AZ Mark Station
MK # 2	60D NAIL IN TOP OF STUMP		22.74	74.6	Geodetic Azimuth
MK # 3	60D NAIL IN 8" OAK		56.85	186.5	Grid Azimuth

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	NONE						
Ref Mon # 2	NONE						
Ref Mon # 3	NONE						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050216	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 217,883.4130		Latitude 36 17 27.0014496
Easting (M) 288,173.9540		Longitude 93 14 41.4998952
Elevation (M)* 438.327		Ellipsoid Height (M): 409.343
		Geoid Height (M): -28.984

Northing (SFT) 714,839.1642		Location Description
Easting (SFT) 945,450.7141		STATION IS A 5/8" REBAR WITH ALUMINUM CAP SW OF FRED MATHIS RESIDENCE.
Elevation (SFT)* 1,438.078		
Convergence Angle 0 43 27.7808813		
Scale Factor 1.000011876		
Elevation Adjust. Factor 0.9999312169		
Combined Adjust. Factor 0.9999430921		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN 14" PECAN TREE		33.71	110.6	AZ Mark Station
MK # 2	60D NAIL IN 12" PECAN TREE		23.71	77.8	Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	NONE						
Ref Mon # 2	NONE						
Ref Mon # 3	NONE						

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050217	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 218,141.4471		Latitude 36 17 35.7071928
Easting (M) 288,994.0900		Longitude 93 14 8.7656640
Elevation (M)* 437.727		Ellipsoid Height (M): 408.736
		Geoid Height (M): -28.991

Northing (SFT) 715,685.7310		
Easting (SFT) 948,141.4436		
Elevation (SFT)* 1,436.109		

Convergence Angle 0 43 8.7328607		
Scale Factor 1.000012398		
Elevation Adjust. Factor 0.9999313111		
Combined Adjust. Factor 0.9999437082		

SUPERCEDED CONTROL												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Horizontal Datum</td> <td style="width: 75%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)	
Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
Grid Northing (Meters)												
Grid Easting (Meters)												

Location Reference Marks			
	Description	Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing)	Comments						
<table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	
Ref Mon # 1	NONE						
Ref Mon # 2	NONE						
Ref Mon # 3	NONE						

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050218	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	217,483.7010	
Easting (M)	288,799.9690	
Elevation (M)*	448.111	
Northing (SFT)	713,527.7757	
Easting (SFT)	947,504.5650	
Elevation (SFT)*	1,470.178	

Convergence Angle	0	43	13.0665922
Scale Factor	1.000011118		
Elevation Adjust. Factor	0.9999296817		
Combined Adjust. Factor	0.9999407989		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "218" DRIVEN FLUSH IN CLEARING OF DENSE BRUSH APPROX 60'-70' NE OF A LARGE DEAD TREE AND APPROX 400' WEST OF NORTH -SOUTH FENCE AND APPROX 800' NW OF POND.			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	LARGE DEAD TREE		18.50	60.7	
MK # 2	NONE				
MK # 3	NONE				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: NONE Ref Mon # 2: NONE Ref Mon # 3: NONE	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050219	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 218,300.5590		Latitude 36 17 41.1599148
Easting (M) 289,711.4780		Longitude 93 13 40.0975248
Elevation (M)* 429.902		Ellipsoid Height (M): 400.906
		Geoid Height (M): -28.997

Northing (SFT) 716,207.7507		
Easting (SFT) 950,495.0741		
Elevation (SFT)* 1,410.437		

Convergence Angle 0 42 52.0508955		
Scale Factor 1.000012725		
Elevation Adjust. Factor 0.9999325389		
Combined Adjust. Factor 0.9999452631		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
STATION IS A 5/8" REBAR WITH ALUMINUM CAP DRIVEN FLUSH AND STAMPED "219" ON SOUTH SLOPE OF HILL AND APPROX 250' W-SW OF POND.			

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN SOUTH FACE OF 20" SUMACK		42.25	138.6	AZ Mark Station
MK # 2	60D NAIL IN EAST FACE OF 12" OAK		30.32	99.5	Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NONE	
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050220	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 217,682.1660		Latitude 36 17 21.0466464
Easting (M) 289,581.3930		Longitude 93 13 45.0011028
Elevation (M)* 411.486		Ellipsoid Height (M): 382.495
Northing (SFT) 714,178.9063		Geoid Height (M): -28.991
Easting (SFT) 950,068.2869		
Elevation (SFT)* 1,350.017		

Convergence Angle	0	42	54.9042833
Scale Factor	1.000011521		
Elevation Adjust. Factor	0.9999354286		
Combined Adjust. Factor	0.9999469489		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	6" ELM AT SOUTH EDGE OF TREE LINE		43.59	143.0	AZ Mark Station
MK # 2	EAST GATE POST		56.08	184.0	Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1: NONE Ref Mon # 2: NONE Ref Mon # 3: NONE	Comments
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050221	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 218,144.0630		Latitude 36 17 36.5205300
Easting (M) 290,797.9120		Longitude 93 12 56.4828876
Elevation (M)* 432.886		Ellipsoid Height (M): 403.885
Northing (SFT) 715,694.3134		Geoid Height (M): -29.002
Easting (SFT) 954,059.4830		
Elevation (SFT)* 1,420.227		

Convergence Angle 0 42 26.6715762	Scale Factor 1.000012447	Location Description STATION IS A 5/8" REBAR WITH ALUMINUM CAP IN PASTURE NW OF RED BARN AND NORTH OF LOBACK CEMETERY.
Elevation Adjust. Factor 0.9999320707	Combined Adjust. Factor 0.9999445168	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN 24" OAK		56.69	186.0	
MK # 2	60D NAIL IN 6" OAK		38.31	125.7	
MK # 3	NONE				

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050222	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
--------------------------	------------------------------------	---	------------------------	---------------------	------------------------------

Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 217,682.2101		Latitude 36 17 21.5076192
Easting (M) 290,722.0040		Longitude 93 12 59.2960680
Elevation (M)* 435.048		Ellipsoid Height (M): 406.051
Northing (SFT) 714,179.0510		Geoid Height (M): -28.997
Easting (SFT) 953,810.4415		
Elevation (SFT)* 1,427.320		

Convergence Angle 0 42 28.3085634	Location Description STATION IS A 5/8" REBAR WITH ALUMINUM CAP ON PROPERTY OWNED BY MR AND MRS DULA GO SOUTH BY RESIDENCE EAST OF GIFT SHOP ON TRACK ROAD TO STATION WHICH IS SE OF OLD ROCK BUILDING.
Scale Factor 1.000011548	
Elevation Adjust. Factor 0.9999317314	
Combined Adjust. Factor 0.9999432787	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTH MOST CORNER OF OLD ROCK BUIL		40.66	133.4	AZ Mark Station
MK # 2	NORTH EDGE OF WATER		41.15	135.0	Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050223	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 218,229.0841		Geoid Datum:
Easting (M) 291,641.3420		Latitude 36 17 39.6151368
Elevation (M)* 411.544		Longitude 93 12 22.7259504
Northing (SFT) 715,973.2534		Ellipsoid Height (M): 382.537
Easting (SFT) 956,826.6362		Geoid Height (M): -29.007
Elevation (SFT)* 1,350.207		

Convergence Angle 0 42 7.0284439	Scale Factor 1.000012633	Location Description STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED 223 DRIVEN FLUSH BETWEEN DRAIN AND FENCE AND APPROX 400 NORTH OF US HIGHWAY 412.
Elevation Adjust. Factor 0.9999354195	Combined Adjust. Factor 0.9999480517	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN EAST FACE OF 18" OAK		58.51	191.9	AZ Mark Station
MK # 2	60D NAIL IN TOP OF 2' STUMP		19.93	65.4	Geodetic Azimuth
MK # 3	60D NAIL IN W FACE OF 8" DOUBLE OAK		25.56	83.8	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050224	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 217,831.5051		Latitude 36 17 26.6914932
Easting (M) 291,575.4840		Longitude 93 12 25.1697888
Elevation (M)* 420.335		Ellipsoid Height (M): 391.332
		Geoid Height (M): -29.003

Northing (SFT) 714,668.8630		
Easting (SFT) 956,610.5671		
Elevation (SFT)* 1,379.049		

Convergence Angle 0 42 8.4505113		
Scale Factor 1.000011858		
Elevation Adjust. Factor 0.9999340401		
Combined Adjust. Factor 0.9999458973		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
STATION IS A 5/8" REBAR WITH ALUMINUM CAP APPROX 1000' SOUTH OF HIGHWAY 62 ON WEST SIDE OF GRAVEL ROAD.			

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN NORTH GATE POST		32.55	106.8	
MK # 2	60D NAIL IN 24" OAK		26.73	87.7	
MK # 3	NONE				

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050225	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 218,141.4950		Latitude 36 17 37.2196680
Easting (M) 292,769.1560		Longitude 93 11 37.4880696
Elevation (M)* 382.012		Ellipsoid Height (M): 352.999
Northing (SFT) 715,685.8882		Geoid Height (M): -29.013
Easting (SFT) 960,526.8060		
Elevation (SFT)* 1,253.318		

Convergence Angle	0	41	40.7045605
Scale Factor	1.000012489		
Elevation Adjust. Factor	0.9999400535		
Combined Adjust. Factor	0.9999525417		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN SE FACE OF 24" OAK		43.54	142.8	AZ Mark Station
MK # 2	60D NAIL IN NE FACE OF 30" POST OAK		54.96	180.3	Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050226	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 217,591.2691		Latitude 36 17 19.3769880
Easting (M) 292,786.1540		Longitude 93 11 36.5396352
Elevation (M)* 388.105		Ellipsoid Height (M): 359.097
Northing (SFT) 713,880.6887		Geoid Height (M): -29.008
Easting (SFT) 960,582.5736		
Elevation (SFT)* 1,273.308		

Convergence Angle	0	41	40.1526673
Scale Factor	1.000011421		
Elevation Adjust. Factor	0.9999390974		
Combined Adjust. Factor	0.9999505177		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D IN E FACE OF 18" OAK-S. SIDE OF GATE		110.74	363.3	AZ Mark Station
MK # 2	60D NAIL IN NW FACE OF 24" ACORN TREE		160.26	525.8	Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NONE	
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050227	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 218,399.6640		Latitude 36 17 45.9305808
Easting (M) 293,626.6000		Longitude 93 11 3.2520696
Elevation (M)* 349.316		Ellipsoid Height (M): 320.296
		Geoid Height (M): -29.020

Northing (SFT) 716,532.8976		
Easting (SFT) 963,339.9368		
Elevation (SFT)* 1,146.048		

Convergence Angle	0	41	20.7826619
Scale Factor	1.000013013		
Elevation Adjust. Factor	0.9999451839		
Combined Adjust. Factor	0.9999581962		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN WEST FACE OF 8" OAK		17.88	58.7	AZ Mark Station
MK # 2	BILL BOARD "TROUT FARM"		19.40	63.6	Geodetic Azimuth
MK # 3	CENTER LINE HIGHWAY 65		10.06	33.0	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Comments</td> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050228	Date Monumented 7/1/1993	Monumented By erial Data Servic	County BOONE	Route 412	Job Number: 009947
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 217,941.2780		Latitude 36 17 31.1468280
Easting (M) 293,848.0670		Longitude 93 10 54.1564572
Elevation (M)* 340.191		Ellipsoid Height (M): 311.174
		Geoid Height (M): -29.017

Northing (SFT) 715,029.0096		
Easting (SFT) 964,066.5331		
Elevation (SFT)* 1,116.110		

Convergence Angle 0 41 15.4899330		
Scale Factor 1.000012125		
Elevation Adjust. Factor 0.9999466158		
Combined Adjust. Factor 0.9999587401		

SUPERCEDED CONTROL												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)	
Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
Grid Northing (Meters)												
Grid Easting (Meters)												

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN EAST FACE OF POWER POLE		14.39	47.2	AZ Mark Station
MK # 2	END OF CURB		7.44	24.4	Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Comments</td> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Ref Mon # 1	NONE								
Ref Mon # 2	NONE								
Ref Mon # 3	NONE								
Comments									

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050312	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 221,013.6571		Latitude 36 19 10.1457048
Easting (M) 292,144.3802		Longitude 93 12 3.9287736
Elevation (M)* 422.697		Ellipsoid Height (M): 393.661
		Geoid Height (M): -29.037

Northing (SFT) 725,108.9733		
Easting (SFT) 958,477.0207		
Elevation (SFT)* 1,386.798		

Convergence Angle	0	41	56.0903831
Scale Factor	1.000018170		
Elevation Adjust. Factor	0.9999336695		
Combined Adjust. Factor	0.9999518383		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN NE FACE OF 2' ELM TREE		70.13	230.1	AZ Mark Station
MK # 2	60D NAIL IN NW FACE OF 16" OAK TREE		79.91	262.2	Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 0503121	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 221,390.1119		Latitude 36 19 22.3482468
Easting (M) 292,120.3217		Longitude 93 12 5.0773212
Elevation (M)* 417.952		Ellipsoid Height (M): 388.912
Northing (SFT) 726,344.0588		Geoid Height (M): -29.400
Easting (SFT) 958,398.0888		
Elevation (SFT)* 1,371.231		

Convergence Angle	0	41	56.7587219
Scale Factor	1.000018931		
Elevation Adjust. Factor	0.9999344140		
Combined Adjust. Factor	0.9999533438		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN 8" ELM TREE		16.02	52.6	AZ Mark Station
MK # 2	60D NAIL IN 4" HACKBERRY TREE		14.86	48.7	Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 150px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 0503122	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 221,505.4593		Latitude 36 19 26.2655508
Easting (M) 292,564.5375		Longitude 93 11 47.3259120
Elevation (M)* 409.249		Ellipsoid Height (M): 380.206
		Geoid Height (M): -29.044

Northing (SFT) 726,722.4944		
Easting (SFT) 959,855.4868		
Elevation (SFT)* 1,342.678		

Convergence Angle	0	41	46.4291924
Scale Factor	1.000019176		
Elevation Adjust. Factor	0.9999357796		
Combined Adjust. Factor	0.9999549544		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

Location Reference Marks

	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN SW FACE OF 30" OAK TREE		28.00	91.9	AZ Mark Station
MK # 2	60D NAIL IN NW FACE OF 24" OAK TREE		35.54	116.6	Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; margin-top: 10px;"> <p style="text-align: center; margin-top: 10px;">Comments</p> </div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050314	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 221,708.6535		Latitude 36 19 32.5588296
Easting (M) 291,810.5909		Longitude 93 12 17.6499792
Elevation (M)* 419.104		Ellipsoid Height (M): 390.062
Northing (SFT) 727,389.1407		Geoid Height (M): -29.042
Easting (SFT) 957,381.9136		
Elevation (SFT)* 1,375.010		

Convergence Angle 0 42 4.0747406	Scale Factor 1.000019571	Location Description 5/8" REBAR WITH ALUMINUM CAP STAMPED "314" 37.4' W. OF CENTERLINE OF US HWY. 65 IN THE SW 1/4 SECTION 3, T19N, R21W.
Elevation Adjust. Factor 0.9999342332	Combined Adjust. Factor 0.9999538030	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TO FENCE		1.28	4.2	AZ Mark Station
MK # 2	TO CULVERT MARKER		29.86	97.9	Geodetic Azimuth
MK # 3	TO CENTER LINE OF HWY. 65		11.42	37.5	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050316	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 222,244.8791		Latitude 36 19 50.0122164
Easting (M) 291,957.9589		Longitude 93 12 12.0048552
Elevation (M)* 411.837		Ellipsoid Height (M): 382.789
		Geoid Height (M): -29.048

Northing (SFT) 729,148.4075		
Easting (SFT) 957,865.4035		
Elevation (SFT)* 1,351.169		

Convergence Angle 0 42 0.7898479		
Scale Factor 1.000020670		
Elevation Adjust. Factor 0.9999353735		
Combined Adjust. Factor 0.9999560422		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
5/8" REBAR WITH ALUMINUM CAP STAMPED "316" W. OF US 65 AND IN THE N 1/2 OF THE SW 1/4 OF SECTION 3, T19N, R21W.			

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	TO CULVERT MARKER		20.56	67.4	AZ Mark Station
MK # 2	TO EDGE OF HWY. 65		3.92	12.9	Geodetic Azimuth
MK # 3	TO FENCE LINE		1.80	5.9	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 150px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050317	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 222,435.8973		Latitude 36 19 56.3680272
Easting (M) 292,360.4278		Longitude 93 11 55.9624920
Elevation (M)* 410.691		Ellipsoid Height (M): 381.731
		Geoid Height (M): -29.052

Northing (SFT) 729,775.1064		
Easting (SFT) 959,185.8369		
Elevation (SFT)* 1,347.409		

Convergence Angle	0	41	51.4548107
Scale Factor	1.000021072		
Elevation Adjust. Factor	0.9999355533		
Combined Adjust. Factor	0.9999566240		

SUPERCEDED CONTROL												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)	
Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
Grid Northing (Meters)												
Grid Easting (Meters)												

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	TO FENCE		0.78	2.6	AZ Mark Station
MK # 2	60D NAIL IN SOUTH FACE OF CORNER POS		11.56	37.9	Geodetic Azimuth
MK # 3	60D NAIL IN SW FACE OF 8" OAK TREE		10.94	35.9	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Comments</td> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050318	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 223,283.8786		Latitude 36 20 23.4558888
Easting (M) 291,301.9227		Longitude 93 12 38.8185912
Elevation (M)* 413.687		Ellipsoid Height (M): 384.634
		Geoid Height (M): -29.054

Northing (SFT) 732,557.1917		Location Description
Easting (SFT) 955,713.0581		5/8" REBAR WITH ALUMINUM CAP STAMPED "318" IN SW 1/4 OF SE 1/4 OF SECTION 33, T20N, R21W.
Elevation (SFT)* 1,357.238		
Convergence Angle 0 42 16.3927375		
Scale Factor 1.000022796		
Elevation Adjust. Factor 0.9999350832		
Combined Adjust. Factor 0.9999578778		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN SE FACE OF 6" CEDAR TREE		22.16	72.7	AZ Mark Station
MK # 2	60D NAIL SOUTH FACE OF 6" OAK TREE		19.40	63.7	Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050319	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 223,293.3792		Latitude 36 20 23.9592264
Easting (M) 291,792.2072		Longitude 93 12 19.1647008
Elevation (M)* 414.221		Ellipsoid Height (M): 385.164
Northing (SFT) 732,588.3616		Geoid Height (M): -29.057
Easting (SFT) 957,321.5998		
Elevation (SFT)* 1,358.990		

Convergence Angle 0 42 4.9561558	Scale Factor 1.000022828	Location Description 5/8" REBAR WITH ALUMINUM CAP STAMPED "319" WHERE THE INTERSECTION OF SECTIONS 33 & 34 IN T20N, R21W AND SECTION3 IN T19N, R21W.
Elevation Adjust. Factor 0.9999349994	Combined Adjust. Factor 0.9999578260	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TO FENCE LINE		0.59	1.9	AZ Mark Station
MK # 2	TO EDGE OF HWY. 65		3.87	12.7	Geodetic Azimuth
MK # 3	TO 45 MPH ROAD SIGN		25.80	84.6	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050320	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 223,329.5638		Geoid Datum:
Easting (M) 292,210.5773		Latitude 36 20 25.2988584
Elevation (M)* 714.743		Longitude 93 12 2.4072948
Northing (SFT) 732,707.0772		Ellipsoid Height (M): 686.256
Easting (SFT) 958,694.2024		Geoid Height (M): -28.484
Elevation (SFT)* 2,344.953		

Convergence Angle 0 41 55.2050359	Scale Factor 1.000022914	Location Description 5/8" REBAR WITH ALUMINUM CAP STAMPED "320" IN THE SW 1/4 OF SECTION 34, T20N, R21W.
Elevation Adjust. Factor 0.9998878461	Combined Adjust. Factor 0.9999107575	

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TO FENCE		0.52	1.7	AZ Mark Station
MK # 2	TO CENTER OF CR #206		3.16	10.4	Geodetic Azimuth
MK # 3	60D NAIL IN EAST FACE OF 3" CEDAR		5.54	18.2	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050321	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 224,283.2736		Latitude 36 20 55.7579940
Easting (M) 291,007.5833		Longitude 93 12 51.1146468
Elevation (M)* 427.556		Ellipsoid Height (M): 398.493
Northing (SFT) 735,836.0401		Geoid Height (M): -29.063
Easting (SFT) 954,747.3795		
Elevation (SFT)* 1,402.740		

Convergence Angle 0 42 23.5478015	Location Description 5/8" REBAR WITH ALUMINUM CAP STAMPED "321" APPROX. 0.2 MILES NORTH OF CENTER OF SECTION 33, T20N, R21W. "NOTE - STATION 321 AND 323 ARE INTERVISIBLE."
Scale Factor 1.000024875	
Elevation Adjust. Factor 0.9999329070	
Combined Adjust. Factor 0.9999577804	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN SE FACE OF 30" PECAN TREE		30.39	99.7	AZ Mark Station
MK # 2	60D NAIL IN S FACE OF 6" OAK TREE		15.38	50.5	Geodetic Azimuth
MK # 3	60D NAIL IN NW FACE OF 12" OAK TREE		36.49	119.7	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050322	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 224,556.8569		Geoid Datum:
Easting (M) 291,475.3411		Latitude 36 21 4.8195540
Elevation (M)* 414.419		Longitude 93 12 32.4919404
Northing (SFT) 736,733.6213		Ellipsoid Height (M): 385.351
Easting (SFT) 956,282.0149		Geoid Height (M): -29.068
Elevation (SFT)* 1,359.640		

Convergence Angle 0 42 12.7112649	Scale Factor 1.000025462	Location Description 5/8" REBAR WITH ALUMINUM CAP STAMPED "322" NEAR CENTER OF THE NE 1/4 OF SECTION 33 T20N, R21W.
Elevation Adjust. Factor 0.9999349684	Combined Adjust. Factor 0.9999604287	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN 6" POST		3.75	12.3	AZ Mark Station
MK # 2	60D NAIL IN "WRONE" MAILBOX		18.36	60.2	Geodetic Azimuth
MK # 3	TO CENTER OF CO. RD. 15		7.91	25.9	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050324	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 225,283.3341		Latitude 36 21 28.1851200
Easting (M) 290,972.5324		Longitude 93 12 53.0149824
Elevation (M)* 417.650		Ellipsoid Height (M): 388.577
		Geoid Height (M): -29.073

Northing (SFT) 739,117.0720		
Easting (SFT) 954,632.3834		
Elevation (SFT)* 1,370.240		

Convergence Angle 0 42 24.6536052		
Scale Factor 1.000026986		
Elevation Adjust. Factor 0.9999344614		
Combined Adjust. Factor 0.9999614456		

SUPERCEDED CONTROL												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)	
Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
Grid Northing (Meters)												
Grid Easting (Meters)												

Location Description			
5/8" REBAR WITH ALUMINUM CAP STAMPED "324" IN NE 1/4 OF THE SE 1/4 OF THE SW 1/4 OF SECTION 28, T20N, R21W.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D IN SE FACE OF 2' OAK		26.93	88.3	AZ Mark Station
MK # 2	60D IN W. FACE OF 15" ELM		27.23	89.3	Geodetic Azimuth
MK # 3	60D IN N. FACE OF 6' OAK		10.52	34.5	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Comments</td> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050325	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 225,759.0535		Latitude 36 21 43.2817452
Easting (M) 290,138.0133		Longitude 93 13 26.7207204
Elevation (M)* 420.643		Ellipsoid Height (M): 391.570
		Geoid Height (M): -29.073

Northing (SFT) 740,677.8280		Location Description
Easting (SFT) 951,894.4653		5/8" REBAR WITH ALUMINUM CAP STAMPED "325" EAST OF WEST 1/4 CORNER OF SECTION 28, T20N, R21W.
Elevation (SFT)* 1,380.060		
Convergence Angle 0 42 44.2669447		
Scale Factor 1.000027978		
Elevation Adjust. Factor 0.9999339918		
Combined Adjust. Factor 0.9999619679		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TO FENCE		0.46	1.5	AZ Mark Station
MK # 2	60D NAIL IN NW FACE OF 6" EVERGREEN T		10.31	33.8	Geodetic Azimuth
MK # 3	TO CENTER OF TRACK RD.		3.95	12.9	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050326	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 225,692.1666		Latitude 36 21 41.3470980
Easting (M) 290,722.5118		Longitude 93 13 3.2448756
Elevation (M)* 422.344		Ellipsoid Height (M): 393.269
		Geoid Height (M): -29.075

Northing (SFT) 740,458.3833		
Easting (SFT) 953,812.1075		
Elevation (SFT)* 1,385.640		

Convergence Angle	0	42	30.6063711
Scale Factor	1.000027850		
Elevation Adjust. Factor	0.9999337248		
Combined Adjust. Factor	0.9999615730		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
5/8" REBAR WITH ALUMINUM CAP STAMPED "326" IN SW 1/4 OF THE SE 1/4 OF THE NW 1/4 OF SECTION 28, T20N, R21W.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN S FACE OF 2' OAK TREE		47.41	155.6	AZ Mark Station
MK # 2	60D NAIL IN NW FACE OF 12" OAK TREE		40.13	131.7	Geodetic Azimuth
MK # 3	TO CENTER OF SMALL EVERGREEN SHRUB		5.21	17.1	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050327	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 226,592.7330		Latitude 36 22 10.2272196
Easting (M) 289,894.7024		Longitude 93 13 36.8959188
Elevation (M)* 407.238		Ellipsoid Height (M): 378.158
Northing (SFT) 743,412.9915		Geoid Height (M): -29.080
Easting (SFT) 951,096.2028		
Elevation (SFT)* 1,336.080		

Convergence Angle	0	42	50.1878838
Scale Factor	1.000029761		
Elevation Adjust. Factor	0.9999360952		
Combined Adjust. Factor	0.9999658543		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN E FACE OF 8" OAK TREE		24.98	81.9	AZ Mark Station
MK # 2	60D NAIL IN S FACE OF 10" OAK TREE		29.66	97.3	Geodetic Azimuth
MK # 3	60D NAIL SMALL ASH TREE		7.93	26.0	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 150px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050329	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 227,099.6964		Latitude 36 22 26.5345356
Easting (M) 289,553.8240		Longitude 93 13 50.8230984
Elevation (M)* 451.498		Ellipsoid Height (M): 422.415
Northing (SFT) 745,076.2539		Geoid Height (M): -29.083
Easting (SFT) 949,977.8376		
Elevation (SFT)* 1,481.290		

Convergence Angle	0	42	58.2920975
Scale Factor	1.000030848		
Elevation Adjust. Factor	0.9999291503		
Combined Adjust. Factor	0.9999599961		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
5/8" REBAR WITH ALUMINUM CAP STAMPED "329" SE OF CENTER OF SECTION 20, T21N, R21W. -POINT IS IN NW 1/4 OF THE NW 1/4 OF THE SE 1/4 OF SECTION 20, T20N, R21W.				

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN BASE OF OAK TREE		16.51	54.2	AZ Mark Station
MK # 2	TO CENTER OF ROAD		3.66	12.0	Geodetic Azimuth
MK # 3	60D NAIL IN BASE OF ASH TREE		17.50	57.4	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 150px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050330	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 227,378.3865		Latitude 36 22 35.7564000
Easting (M) 290,002.2691		Longitude 93 13 32.9736540
Elevation (M)* 455.457		Ellipsoid Height (M): 426.368
		Geoid Height (M): -29.089

Northing (SFT) 745,990.5897		
Easting (SFT) 951,449.1112		
Elevation (SFT)* 1,494.279		

Convergence Angle 0 42 47.9055213		
Scale Factor 1.000031466		
Elevation Adjust. Factor 0.9999285291		
Combined Adjust. Factor 0.9999599928		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description
5/8" REBAR WITH ALUMINUM CAP STAMPED "330" IN SE 1/4 OF THE NE 1/4 OF SECTION 20, T20N, R21W.

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	FLAGGED 60D NAIL IN GROUND		5.69	18.7	AZ Mark Station
MK # 2	60D NAIL IN W FACE OF 2' ELM TREE		38.29	125.6	Geodetic Azimuth
MK # 3	FLAGGED 60D NAIL IN GROUND		7.11	23.3	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050331	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 228,365.2051		Latitude 36 23 7.7272620
Easting (M) 289,902.4772		Longitude 93 13 37.4701224
Elevation (M)* 460.965		Ellipsoid Height (M): 431.867
		Geoid Height (M): -29.098

Northing (SFT) 749,228.1771		
Easting (SFT) 951,121.7106		
Elevation (SFT)* 1,512.349		

Convergence Angle 0 42 50.5220124		
Scale Factor 1.000033623		
Elevation Adjust. Factor 0.9999276648		
Combined Adjust. Factor 0.9999612854		

SUPERCEDED CONTROL												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Horizontal Datum</td> <td style="width: 75%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)	
Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
Grid Northing (Meters)												
Grid Easting (Meters)												

Location Reference Marks				
	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TO CORNER POST		3.64	11.9
MK # 2	60D NAIL IN NW FACE OF 12" ELM TREE		17.05	56.0
MK # 3	60D NAIL IN CORNER POST		14.31	46.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050332	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 228,232.9240		Latitude 36 23 3.5831076
Easting (M) 290,266.3791		Longitude 93 13 22.8047808
Elevation (M)* 459.109		Ellipsoid Height (M): 430.011
		Geoid Height (M): -29.098

Northing (SFT) 748,794.1848		
Easting (SFT) 952,315.6121		
Elevation (SFT)* 1,506.260		

Convergence Angle 0 42 41.9882629		
Scale Factor 1.000033342		
Elevation Adjust. Factor 0.9999279560		
Combined Adjust. Factor 0.9999612956		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
5/8" REBAR WITH ALUMINUM CAP STAMPED "332" IN THE SE 1/4 OF THE SE 1/4 OF SECTION 17, T20N, R 21W. - POINT IS NW OF CORNER 17, 16, 20, 21			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN W FACE OF 7" DEAD OAK		37.04	121.5	AZ Mark Station
MK # 2	60D NAIL IN N FACE OF 4" OAK		40.44	132.7	Geodetic Azimuth
MK # 3	60D NAIL IN E FACE OF 2" OAK		53.47	175.4	Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050333	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	229,256.6616	
Easting (M)	290,024.8937	
Elevation (M)*	428.641	
Northing (SFT)	752,152.8973	
Easting (SFT)	951,523.3387	
Elevation (SFT)*	1,406.300	

Convergence Angle	0	42	47.9232730
Scale Factor	1.000035599		
Elevation Adjust. Factor	0.9999327368		
Combined Adjust. Factor	0.9999683334		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	60D NAIL IN SE FACE OF LEANING 2' OAK		41.44	136.0
MK # 2	60D NAIL IN W FACE OF 2' OAL TREE		72.09	236.5
MK # 3	60D ANIL IN E FACE OF 18" ELM TREE		67.35	220.9

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050334	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 229,056.6061		Latitude 36 23 30.4011312
Easting (M) 290,511.9611		Longitude 93 13 13.3619736
Elevation (M)* 450.712		Ellipsoid Height (M): 421.604
Northing (SFT) 751,496.5485		Geoid Height (M): -29.108
Easting (SFT) 953,121.3257		
Elevation (SFT)* 1,478.711		

Convergence Angle 0 42 36.4935016	Location Description 5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "334" WEST OF CENTER OF THE NW 1/4 OF SECTION 16, T20N, R21W. - POINT IS IN OZARK RUE CAMPGROUND ON THE SOUTH END. NOTE- 333 AND 334 ARE INTERVISIBLE.
Scale Factor 1.000035168	
Elevation Adjust. Factor 0.9999292736	
Combined Adjust. Factor 0.9999644391	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TO CENTER OF TRACK RD.		17.11	56.1	AZ Mark Station
MK # 2	60S NAIL IN OAK TREE		18.18	59.6	Geodetic Azimuth
MK # 3	60D NAIL IN SE FACE OF POWER POLE		31.04	101.8	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	Comments
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050335	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 229,831.0746		Geoid Datum:
Easting (M) 289,964.7529		Latitude 36 23 55.3032240
Elevation (M)* 438.084		Longitude 93 13 35.7043188
Northing (SFT) 754,037.4506		Ellipsoid Height (M): 408.971
Easting (SFT) 951,326.0268		Geoid Height (M): -29.113
Elevation (SFT)* 1,437.281		

Convergence Angle 0 42 49.4944928	Scale Factor 1.000036878	Location Description 5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "338" IN THE SW 1/4 OF THE SE 1/4 OF SECTION 8 OF T20N, R21W.
Elevation Adjust. Factor 0.9999312551	Combined Adjust. Factor 0.9999681305	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN SOUTH FACE OF 16" OAK TREE		22.48	73.7	AZ Mark Station
MK # 2	60D NAIL IN WEST FACE OF 10" OAK TREE		44.85	147.1	Geodetic Azimuth
MK # 3	TO CENTER OF STATE HWY. 396		36.18	118.7	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050336	Date Monumented 4/1/1994	Monumented By Aerial Data Service	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">Vertical Determined By:</td> <td colspan="2">LEVEL - Unkown Quality</td> </tr> <tr> <td colspan="2">Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td colspan="2">Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>36</td> <td>23</td> <td>50.3825388</td> </tr> <tr> <td>Longitude</td> <td>93</td> <td>13</td> <td>19.0500456</td> </tr> <tr> <td colspan="2">Ellipsoid Height (M):</td> <td>420.127</td> <td></td> </tr> <tr> <td colspan="2">Geoid Height (M):</td> <td>-29.113</td> <td></td> </tr> </table>	Vertical Determined By:		LEVEL - Unkown Quality		Elevation Datum:		NAVD 88		Geoid Datum:				Latitude	36	23	50.3825388	Longitude	93	13	19.0500456	Ellipsoid Height (M):		420.127		Geoid Height (M):		-29.113	
Vertical Determined By:			LEVEL - Unkown Quality																											
Elevation Datum:			NAVD 88																											
Geoid Datum:																														
Latitude	36		23	50.3825388																										
Longitude	93		13	19.0500456																										
Ellipsoid Height (M):		420.127																												
Geoid Height (M):		-29.113																												
Horizontal Datum NAD 83 (1986)																														
Northing (M)	229,674.2453																													
Easting (M)	290,377.8582																													
Elevation (M)*	449.239																													
Northing (SFT)	753,522.9198																													
Easting (SFT)	952,681.3564																													
Elevation (SFT)*	1,473.878																													

Convergence Angle	0	42	39.8033857
Scale Factor	1.000036539		
Elevation Adjust. Factor	0.9999295047		
Combined Adjust. Factor	0.9999660411		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks											
Description		Azimuth	Distance								
			Meters	Feet							
MK # 1	TO FENCE LINE		8.29	27.2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>AZ Mark Station</td> <td></td> </tr> <tr> <td>Geodetic Azimuth</td> <td></td> </tr> <tr> <td>Grid Azimuth</td> <td></td> </tr> </table>	AZ Mark Station		Geodetic Azimuth		Grid Azimuth	
AZ Mark Station											
Geodetic Azimuth											
Grid Azimuth											
MK # 2	NE CORNER OF SOUTHMOST GUARDRAIL POST		17.89	58.7							
MK # 3	TO EDGE OF US HWY. 65		1.75	5.7							

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050338	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 230,580.7449		Latitude 36 24 19.6759764
Easting (M) 290,099.8800		Longitude 93 13 30.6565608
Elevation (M)* 425.919		Ellipsoid Height (M): 396.798
Northing (SFT) 756,496.9939		Geoid Height (M): -29.121
Easting (SFT) 951,769.3563		
Elevation (SFT)* 1,397.369		

Convergence Angle	0	42	46.5572068
Scale Factor	1.000038566		
Elevation Adjust. Factor	0.9999331639		
Combined Adjust. Factor	0.9999717273		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	FLAGGED 60D NAIL IN GROUND		6.29	20.6	AZ Mark Station
MK # 2	FLAGGED 60D NAIL IN GROUND		7.24	23.7	Geodetic Azimuth
MK # 3	60D NAIL IN E FACE OF 18" OAK TREE		76.83	252.1	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 150px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050339	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 231,293.9690		Latitude 36 24 42.4140012
Easting (M) 289,118.7671		Longitude 93 14 10.3871184
Elevation (M)* 442.710		Ellipsoid Height (M): 413.877
Northing (SFT) 758,836.9633		Geoid Height (M): -29.123
Easting (SFT) 948,550.4884		
Elevation (SFT)* 1,452.458		

Convergence Angle	0	43	9.6763836
Scale Factor	1.000040154		
Elevation Adjust. Factor	0.9999305292		
Combined Adjust. Factor	0.9999706804		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
5/8" REBAR WITH ALUMINUM CAP STAMPED "339" IN FAR SOUTHERN PART OF SW 1/4 OF SECTION 5, T20N, R21W.				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TO CENTER OF CO. RD. 18		4.17	13.7	
MK # 2	60D NAIL IN N FACE OF 8" DOUBLE ELM		21.02	68.9	
MK # 3	60D NAIL IN WEST FACE OF 7" ASH TREE		14.40	47.2	

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050340	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 231,485.3270		Latitude 36 24 48.8744388
Easting (M) 289,741.9462		Longitude 93 13 45.4733652
Elevation (M)* 425.678		Ellipsoid Height (M): 396.550
		Geoid Height (M): -29.128

Northing (SFT) 759,464.7770		
Easting (SFT) 950,595.0352		
Elevation (SFT)* 1,396.579		

Convergence Angle 0 42 55.1790924		
Scale Factor 1.000040607		
Elevation Adjust. Factor 0.9999332017		
Combined Adjust. Factor 0.9999738060		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
5/8" REBAR WITH ALUMINUM CAP STAMPED "340" SET NEAR SW CORNER OF CLEARING, APPROX. 300' SOUTH OF TRACK ROAD.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN SW FACE OF 12" WALNUT		53.04	174.0	AZ Mark Station
MK # 2	60D NAIL IN NE FACE OF 10" OAK TREE		26.43	86.7	Geodetic Azimuth
MK # 3	60D NAIL IN SE FACE OF 5" EVERGREEN		11.19	36.7	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050343	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 232,242.8659		Geoid Datum:
Easting (M) 288,894.7044		Latitude 36 25 13.1032092
Elevation (M)* 480.362		Longitude 93 14 19.8584268
Northing (SFT) 761,950.1359		Ellipsoid Height (M): 451.231
Easting (SFT) 947,815.3760		Geoid Height (M): -29.132
Elevation (SFT)* 1,575.988		

Convergence Angle 0 43 15.1877297	Scale Factor 1.000042316	Location Description 5/8" REBAR WITH ALUMINUM CAP STAMPED "343" WEST OF EAST 1/4 CORNER OF SECTION 5, T20N, R21W, POINT IS 19.15' EAST OF CENTERLINE OF CO. RD. 18 AND WEST OF RED BARN OWNED BY BREWER'S.
Elevation Adjust. Factor 0.9999246212	Combined Adjust. Factor 0.9999669340	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TO GATE POST		9.42	30.9	AZ Mark Station
MK # 2	60D NAIL IN POWER POLE #37		25.63	84.1	Geodetic Azimuth
MK # 3	TO CENTER OF CO. RD. #18		5.84	19.1	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050344	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 232,264.6591		Latitude 36 25 14.0446164
Easting (M) 289,470.6795		Longitude 93 13 56.7516792
Elevation (M)* 433.987		Ellipsoid Height (M): 404.852
		Geoid Height (M): -29.135

Northing (SFT) 762,021.6357		
Easting (SFT) 949,705.0543		
Elevation (SFT)* 1,423.839		

Convergence Angle 0 43 1.7419335		
Scale Factor 1.000042383		
Elevation Adjust. Factor 0.9999318979		
Combined Adjust. Factor 0.9999742780		

SUPERCEDED CONTROL												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)	
Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
Grid Northing (Meters)												
Grid Easting (Meters)												

Location Description			
5/8" REBAR WITH ALUMINUM CAP STAMPED "344" FLUSH WITH GROUND N NW OF CENTER OF SECTION 5, T20N, R21W.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	60D NAIL IN S FACE OF 12" OAK TREE		87.48	287.0
MK # 2	FLAGGED 60D NAIL IN GROUND		5.18	17.0
MK # 3	60D NAIL IN E FACE OF 6" OAK TREE		37.16	121.9

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td></td> </tr> <tr> <td>Ref Mon # 2</td> <td></td> </tr> <tr> <td>Ref Mon # 3</td> <td></td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1		Ref Mon # 2		Ref Mon # 3		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1											
Ref Mon # 2											
Ref Mon # 3											
Comments											

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050347	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 233,183.9331		Geoid Datum:
Easting (M) 288,879.9081		Latitude 36 25 43.6236312
Elevation (M)* 500.461		Longitude 93 14 20.9276700
Northing (SFT) 765,037.6205		Ellipsoid Height (M): 471.320
Easting (SFT) 947,766.8318		Geoid Height (M): -29.141
Elevation (SFT)* 1,641.929		

Convergence Angle 0 43 15.8099214	Scale Factor 1.000044488	Location Description 5/8" REBAR WITH ALUMINUM CAP STAMPED "347" IN WEST 1/2 OF SW 1/4 OF SECTION 32, T20N, R21W.
Elevation Adjust. Factor 0.9999214675	Combined Adjust. Factor 0.9999659520	

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TO FENCE LINE		0.93	3.0	AZ Mark Station
MK # 2	TO CENTER OF CO RD. 18		6.84	22.4	Geodetic Azimuth
MK # 3	TO CGS REFERENCE MARK		24.71	81.1	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050349	Date Monumented 4/1/1994	Monumented By Aerial Data Service	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 234,053.2983		Latitude 36 26 11.9574672
Easting (M) 289,206.9996		Longitude 93 14 8.2358736
Elevation (M)* 429.506		Ellipsoid Height (M): 400.356
Northing (SFT) 767,889.8628		Geoid Height (M): -29.151
Easting (SFT) 948,839.9645		
Elevation (SFT)* 1,409.138		

Convergence Angle 0 43 8.4245762	Scale Factor 1.000046525	Location Description 5/8" REBAR (NO CAP) AT CENTERLINE OF WHITE GATE ON EAST SIDE OF COUNTY ROAD 18 IN NW 1/4 SECTION 32M, T21N, R21W. -STATION 349 AND 350 ARE INTERVISIBLE
Elevation Adjust. Factor 0.9999326010	Combined Adjust. Factor 0.9999791229	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050350	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 234,069.9316		Latitude 36 26 12.6513672
Easting (M) 289,586.8009		Longitude 93 13 52.9971492
Elevation (M)* 401.642		Ellipsoid Height (M): 372.488
		Geoid Height (M): -29.153

Northing (SFT) 767,944.4339		
Easting (SFT) 950,086.0293		
Elevation (SFT)* 1,317.720		

Convergence Angle 0 42 59.5571757		
Scale Factor 1.000046575		
Elevation Adjust. Factor 0.9999369732		
Combined Adjust. Factor 0.9999835453		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "350" APPROX. 0.2 MILES NORTH OF CENTER OF SECTION 32, T21N, R21W. -NOTE- STATION IS INTERVISIBLE WITH STATIONS 349, 3501, AND 3481.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TO EAST SIDE OF METAL GATE		34.91	114.5	AZ Mark Station
MK # 2	TO FENCE LINE		6.63	21.8	Geodetic Azimuth
MK # 3	60D NAIL IN N FACE OF 12" PINE TREE		27.80	91.2	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 0503501	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 233,786.8924		Latitude 36 26 3.5739996
Easting (M) 289,843.1216		Longitude 93 13 42.5653824
Elevation (M)* 415.598		Ellipsoid Height (M): 386.448
Northing (SFT) 767,015.8295		Geoid Height (M): -29.151
Easting (SFT) 950,926.9748		
Elevation (SFT)* 1,363.508		

Convergence Angle	0	42	53.4869397
Scale Factor	1.000045920		
Elevation Adjust. Factor	0.9999347834		
Combined Adjust. Factor	0.9999807004		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 100px;"> Comments </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050351	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 234,872.5291		Latitude 36 26 38.7111984
Easting (M) 289,648.9798		Longitude 93 13 50.9037564
Elevation (M)* 415.519		Ellipsoid Height (M): 386.358
		Geoid Height (M): -29.161

Northing (SFT) 770,577.6226		
Easting (SFT) 950,290.0279		
Elevation (SFT)* 1,363.249		

Convergence Angle 0 42 58.3390323		
Scale Factor 1.000048465		
Elevation Adjust. Factor 0.9999347958		
Combined Adjust. Factor 0.9999832576		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
5/8" REBAR WITH ALUMINUM CAP STAMPED "351" DRIVEN FLUSH APPROX. 0.25 MILES S SE OF CENTER OF SECTION 29, T21N, R21W. POINT IS NORTH OF CO. RD. 18 AND APPROX. 300" NORTH OF SMALL POND			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN E FACE OF TREE		32.48	106.6	
MK # 2	60D NAIL IN S FACE OF LARGE OAK TREE		33.95	111.4	
MK # 3	60D NAIL IN S FACE OF LARGE OAK TREE		29.76	97.7	

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050352	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 234,845.9803		Latitude 36 26 37.9969872
Easting (M) 290,012.0291		Longitude 93 13 36.3145368
Elevation (M)* 416.735		Ellipsoid Height (M): 387.574
		Geoid Height (M): -29.162

Northing (SFT) 770,490.5204		Location Description
Easting (SFT) 951,481.1321		5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "352" 11.23 FEET WEST OF CENTERLINE OF BOONE COUNTY ROAD 18 AND SOUTH OF CENTER OF THE SE 1/4 OF SECTION 29, T21N, R21W.
Elevation (SFT)* 1,367.238		
Convergence Angle 0 42 49.8495781		
Scale Factor 1.000048413		
Elevation Adjust. Factor 0.9999346050		
Combined Adjust. Factor 0.9999830148		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN TREE		15.69	51.5	AZ Mark Station
MK # 2	60D NAIL IN GATE POST		12.45	40.8	Geodetic Azimuth
MK # 3	TO FENCE LINE		0.69	2.3	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050353	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 235,709.6237		Latitude 36 27 6.0205860
Easting (M) 290,033.9374		Longitude 93 13 35.8669344
Elevation (M)* 411.365		Ellipsoid Height (M): 382.195
		Geoid Height (M): -29.170

Northing (SFT) 773,323.9904		
Easting (SFT) 951,553.0096		
Elevation (SFT)* 1,349.620		

Convergence Angle 0 42 49.5891187		
Scale Factor 1.000050463		
Elevation Adjust. Factor 0.9999354476		
Combined Adjust. Factor 0.9999859073		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "353" NEAR THE CENTER OF THE NE 1/4 OF SECTION 29, T21N, R21W. NOTE- STAION 353 IS INTERVISIBLE WITH MONUMENT 050026, 387 AND MONUMENT 050027A.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN E FACE OF 8" ELM TREE		27.37	89.8	AZ Mark Station
MK # 2	60D NAIL IN NW FACE OF CORNER POST		39.91	130.9	Geodetic Azimuth
MK # 3	60D NAIL IN N FACE OF 6" ELM TREE		36.46	119.6	Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050354	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 235,580.4102		Latitude 36 27 1.9687464
Easting (M) 290,379.8349		Longitude 93 13 21.9138528
Elevation (M)* 411.273		Ellipsoid Height (M): 382.104
Northing (SFT) 772,900.0625		Geoid Height (M): -29.170
Easting (SFT) 952,687.8417		
Elevation (SFT)* 1,349.318		

Convergence Angle 0 42 41.4698326	Location Description 5/8" REBAR WITH ALUMINUM CAP STAMPED "354" EAST OF CO. RD. 18 APPROX. 0.25 MILES SOUTH OF SECTION CORNER 20 21 IN T21N, R21W. 29 28
Scale Factor 1.000050166	
Elevation Adjust. Factor 0.9999354620	
Combined Adjust. Factor 0.9999856248	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN NW FACE OF 12" ELM TREE		68.40	224.4	
MK # 2	TO FENCE LINE		10.23	33.6	
MK # 3	60D NAIL IN OAK TREE		21.47	70.4	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050377	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Northing (M) 236,661.5525		Geoid Datum:
Easting (M) 290,345.1881		Latitude 36 27 37.0246284
Elevation (M)* 331.565		Longitude 93 13 23.8443312
Northing (SFT) 776,447.1102		Ellipsoid Height (M): 302.385
Easting (SFT) 952,574.1713		Geoid Height (M): -29.180
Elevation (SFT)* 1,087.810		

Convergence Angle 0 42 42.5931763	Scale Factor 1.000052753	Location Description 5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "377" ON A HILLTOP IN A CLEARING IN NE 1/4 OF THE SE 1/4 OF SECTION 20, T21N, R21W.
Elevation Adjust. Factor 0.9999479693	Combined Adjust. Factor 1.0000007196	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN TREE		46.58	152.8	AZ Mark Station
MK # 2	CHISELED X IN CENTER OF ROCK		13.12	43.0	Geodetic Azimuth
MK # 3	60D NAIL IN TREE		62.23	204.1	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050378	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 236,428.7888		Latitude 36 27 29.7633096
Easting (M) 291,064.6545		Longitude 93 12 54.8374356
Elevation (M)* 314.231		Ellipsoid Height (M): 285.050
		Geoid Height (M): -29.181

Northing (SFT) 775,683.4513		
Easting (SFT) 954,934.6206		
Elevation (SFT)* 1,030.940		

Convergence Angle 0 42 25.7140891		
Scale Factor 1.000052215		
Elevation Adjust. Factor 0.9999506893		
Combined Adjust. Factor 1.0000029018		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
5/8" REBAR WITH ALUMINUM CAP STAMPED "378" IN SW CORNER OF THE INTERSECTION OF COUNTY ROADS 18 AND 22 POINT IS LOCATED IN SW 1/4 OF THE NE 1/4 OF THE SW 1/4 OF SECTION 21, T21N, R21W.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN W FACE OF 4" EVERGREEN		11.04	36.2	AZ Mark Station
MK # 2	60D NAIL IN N FACE OF POWER POLE #28		39.87	130.8	Geodetic Azimuth
MK # 3	60D NAIL IN CENTER OF 12" STUMP		30.59	100.4	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050379	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 237,363.1312		Latitude 36 27 59.7462732
Easting (M) 290,256.0963		Longitude 93 13 27.7723236
Elevation (M)* 382.427		Ellipsoid Height (M): 353.236
Northing (SFT) 778,748.8729		Geoid Height (M): -29.186
Easting (SFT) 952,281.8759		
Elevation (SFT)* 1,254.679		

Convergence Angle	0	42	44.8788717
Scale Factor	1.000054446		
Elevation Adjust. Factor	0.9999399883		
Combined Adjust. Factor	0.9999944311		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN E FACE OF 10" OAK TREE		34.07	111.8	AZ Mark Station
MK # 2	60D NAIL IN SE FACE OF 10" EVERGREEN		44.45	145.8	Geodetic Azimuth
MK # 3	SW CORNER OF SOUTHMOST CHICKEN BA		43.82	143.7	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050380	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 237,524.3944		Latitude 36 28 5.2604760
Easting (M) 290,960.4444		Longitude 93 12 59.5656792
Elevation (M)* 392.626		Ellipsoid Height (M): 363.435
Northing (SFT) 779,277.9506		Geoid Height (M): -29.191
Easting (SFT) 954,592.7247		
Elevation (SFT)* 1,288.140		

Convergence Angle	0	42	28.4654499
Scale Factor	1.000054859		
Elevation Adjust. Factor	0.9999383880		
Combined Adjust. Factor	0.9999932436		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN S FACE OF 10' ELM TREE		21.60	70.9	AZ Mark Station
MK # 2	60D NAIL NW FACE OF POWER POLE #3		17.08	56.0	Geodetic Azimuth
MK # 3	60D NAIL IN NE FACE OF 6" BLACKJACK TR		14.63	48.0	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 150px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 0503801	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 237,952.5701		Latitude 36 28 19.1462844
Easting (M) 290,952.5097		Longitude 93 13 0.0968412
Elevation (M)* 396.509		Ellipsoid Height (M): 367.315
		Geoid Height (M): -29.194

Northing (SFT) 780,682.7237		
Easting (SFT) 954,566.6922		
Elevation (SFT)* 1,300.880		

Convergence Angle	0	42	28.7745326
Scale Factor	1.000055901		
Elevation Adjust. Factor	0.9999377787		
Combined Adjust. Factor	0.9999936762		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description	Azimuth	Distance		
		Meters	Feet	
MK # 1				AZ Mark Station
MK # 2				Geodetic Azimuth
MK # 3				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050382	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 238,176.6419		Latitude 36 28 26.1533244
Easting (M) 290,302.5935		Longitude 93 13 26.3111376
Elevation (M)* 387.843		Ellipsoid Height (M): 358.650
Northing (SFT) 781,417.8660		Geoid Height (M): -29.194
Easting (SFT) 952,434.4255		
Elevation (SFT)* 1,272.448		

Convergence Angle	0	42	44.0286088
Scale Factor	1.000056428		
Elevation Adjust. Factor	0.9999391385		
Combined Adjust. Factor	0.9999955631		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TO CENTER OF TRACK ROAD		4.89	16.0	AZ Mark Station
MK # 2	60D NAIL IN NW FACE OF 30" BALCKJACK		60.52	198.5	Geodetic Azimuth
MK # 3	60D NAIL IN N FACE OF 2" BLACKJACK		59.69	195.8	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 150px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050387	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 239,187.4831		Latitude 36 28 59.1152808
Easting (M) 290,732.0542		Longitude 93 13 9.5651688
Elevation (M)* 407.698		Ellipsoid Height (M): 378.494
		Geoid Height (M): -29.204

Northing (SFT) 784,734.2675		Location Description
Easting (SFT) 953,843.4145		5/8" REBAR WITH ALUMINUM CAP DRIVEN FLUSH STAMPED "387" IN NW 1/4 OF THE NW 1/4 OF SECTION 16, T21N, R21W.
Elevation (SFT)* 1,337.589		
Convergence Angle 0 42 34.2841442		
Scale Factor 1.000058926		
Elevation Adjust. Factor 0.9999360230		
Combined Adjust. Factor 0.9999949452		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN TOP OF STUMP		23.18	76.0	AZ Mark Station
MK # 2	60D NAIL IN S FACE OF 2' PINE		59.18	194.1	Geodetic Azimuth
MK # 3	60D NAIL IN SE FACE OF 12" LEANING ELM		77.11	253.0	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 0503871	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 239,525.8350		Latitude 36 29 10.1720724
Easting (M) 290,935.2335		Longitude 93 13 1.5717900
Elevation (M)* 419.204		Ellipsoid Height (M): 390.001
		Geoid Height (M): -29.204

Northing (SFT) 785,844.3437		
Easting (SFT) 954,510.0119		
Elevation (SFT)* 1,375.338		

Convergence Angle	0	42	29.6328040
Scale Factor	1.000059770		
Elevation Adjust. Factor	0.9999342176		
Combined Adjust. Factor	0.9999939836		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

Location Reference Marks

Description	Azimuth	Distance		
		Meters	Feet	
MK # 1				AZ Mark Station
MK # 2				Geodetic Azimuth
MK # 3				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; margin-top: 10px;"> <p style="text-align: center; margin-top: 10px;">Comments</p> </div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050394	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 239,614.8904		Latitude 36 29 12.7712004
Easting (M) 290,215.3984		Longitude 93 13 30.5320116
Elevation (M)* 410.996		Ellipsoid Height (M): 381.790
		Geoid Height (M): -29.206

Northing (SFT) 786,136.5196	Easting (SFT) 952,148.3529	Location Description 5/8" REBAR WITH ALUMINUM CAP FLUSH DRIVEN AND STAMPED "394" NEAR CENTER OF SECTION 8, T21N, R21W.
Elevation (SFT)* 1,348.409		

Convergence Angle 0 42 46.4847317	Scale Factor 1.000059969	
Elevation Adjust. Factor 0.9999355055	Combined Adjust. Factor 0.9999954706	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN S FACE OF 6" PINE TREE		31.58	103.6	AZ Mark Station
MK # 2	60D NAIL IN SW FACE OF 18" BLACKJACK		32.70	107.3	Geodetic Azimuth
MK # 3	60D NAIL IN NE FACE OF 10" DBLE. OAK		45.74	150.0	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050395	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 239,813.6429		Latitude 36 29 19.3926408
Easting (M) 290,648.4304		Longitude 93 13 13.2359448
Elevation (M)* 417.973		Ellipsoid Height (M): 388.764
		Geoid Height (M): -29.209

Northing (SFT) 786,788.5934		
Easting (SFT) 953,569.0587		
Elevation (SFT)* 1,371.300		

Convergence Angle 0 42 36.4201656		
Scale Factor 1.000060476		
Elevation Adjust. Factor 0.9999344107		
Combined Adjust. Factor 0.9999948827		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "395" IN CLEARING IN THE NW 1/4 OF THE SW 1/4 OF SECTION 9, T21N, R21W.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN SE FACE OF 10" EVERGREEN		28.16	92.4	AZ Mark Station
MK # 2	60D NAIL IN N FACE OF 8" DBLE. PINE		21.18	69.5	Geodetic Azimuth
MK # 3	60D NAIL IN E FACE OF 2' PINE TREE		21.63	70.9	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050397	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 240,084.0379		Latitude 36 29 28.2796152
Easting (M) 290,937.5628		Longitude 93 13 1.7554188
Elevation (M)* 410.993		Ellipsoid Height (M): 381.781
Northing (SFT) 787,675.7143		Geoid Height (M): -29.212
Easting (SFT) 954,517.6540		
Elevation (SFT)* 1,348.400		

Convergence Angle	0	42	29.7396575
Scale Factor	1.000061158		
Elevation Adjust. Factor	0.9999355060		
Combined Adjust. Factor	0.9999966600		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "397" IN SW CORNER OF FIELD APPROX. 0.25 MILES EAST OF THE WEST 1/4 CORNER OF SECTION 9, T21N, R21W.				

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN E FACE OF 15" ELM		15.20	49.9	AZ Mark Station
MK # 2	60D NAIL IN SW FACE OF 7" PINE TREE		21.52	70.6	Geodetic Azimuth
MK # 3	60D NAIL IN N FACE OF 5" PINE TREE		25.18	82.6	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050399	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 240,475.5010		Latitude 36 29 40.7987304
Easting (M) 290,492.4134		Longitude 93 13 19.8333732
Elevation (M)* 413.526		Ellipsoid Height (M): 384.312
Northing (SFT) 788,960.0395		Geoid Height (M): -29.214
Easting (SFT) 953,057.1930		
Elevation (SFT)* 1,356.710		

Convergence Angle	0	42	40.2592034
Scale Factor	1.000062122		
Elevation Adjust. Factor	0.9999351085		
Combined Adjust. Factor	0.9999972265		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TO HWY. 65 SIGN		9.89	32.4	AZ Mark Station
MK # 2	TO SIGN 203		48.36	158.7	Geodetic Azimuth
MK # 3	TO CENTER OF US HWY. 65		10.65	34.9	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050400	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 240,897.1471		Latitude 36 29 54.2788080
Easting (M) 290,004.4249		Longitude 93 13 39.6491340
Elevation (M)* 416.857		Ellipsoid Height (M): 387.642
		Geoid Height (M): -29.216

Northing (SFT) 790,343.3901		
Easting (SFT) 951,456.1840		
Elevation (SFT)* 1,367.638		

Convergence Angle 0 42 51.7899773		
Scale Factor 1.000063164		
Elevation Adjust. Factor 0.9999345858		
Combined Adjust. Factor 0.9999977457		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "400" POINT IS APPROX. 0.05 MILES NORTH OF MISSOURI- ARKANSAS BORDER AT SW CORNER INTERSECTION OF OLD US HWY. 65 AND ROAD 56 -100C POINT 400 IS IN EAST 1/2 OF MISSOURI SECTION 20, T21N, R21W.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TO BASE OF STOP SIGN		14.26	46.8	AZ Mark Station
MK # 2	TO CENTER OF OLD US HWY. 65		7.86	25.8	Geodetic Azimuth
MK # 3	60D NAIL IN POST		4.62	15.2	Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 0504011	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 240,084.0166		Latitude 36 29 28.2661692
Easting (M) 290,905.7630		Longitude 93 13 3.0328860
Elevation (M)* 417.549		Ellipsoid Height (M): 388.329
Northing (SFT) 787,675.6445		Geoid Height (M): -29.220
Easting (SFT) 954,413.3241		
Elevation (SFT)* 1,369.909		

Convergence Angle	0	42	30.4830145
Scale Factor	1.000061157		
Elevation Adjust. Factor	0.9999344772		
Combined Adjust. Factor	0.9999956302		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks			
Description	Azimuth	Distance	
		Meters	Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050402	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 223,285.8402		Latitude 36 20 23.3310732
Easting (M) 290,830.5413		Longitude 93 12 57.7201500
Elevation (M)* 385.926		Ellipsoid Height (M): 356.874
		Geoid Height (M): -29.052

Northing (SFT) 732,563.6274		
Easting (SFT) 954,166.5342		
Elevation (SFT)* 1,266.159		

Convergence Angle 0 42 27.3915381		
Scale Factor 1.000022788		
Elevation Adjust. Factor 0.9999394393		
Combined Adjust. Factor 0.9999622259		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
5/8" REBAR WITH ALUMINUM CAP STAMPED "402" SET APPROX. 110' SOUTH FROM DIRT ROAD AND APPROX. 40' EAST OF POND STATION IS LOCATED NEAR THE SOUTH 1/4 CORNER OF SECTION 33, T20N, R21W.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN S FACE OF 14" ELM TREE		33.20	108.9	AZ Mark Station
MK # 2	60D NAIL IN E FACE OF 24" DEAD ELM		25.40	83.3	Geodetic Azimuth
MK # 3	60D ANIL I S FACE OF 8" OAK TREE		33.15	108.7	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050403	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 223,953.0431		Geoid Datum:
Easting (M) 290,559.6627		Latitude 36 20 44.8660104
Elevation (M)* 400.648		Longitude 93 13 8.9125896
Northing (SFT) 734,752.6089		Ellipsoid Height (M): 371.591
Easting (SFT) 953,277.8267		Geoid Height (M): -29.057
Elevation (SFT)* 1,314.459		

Convergence Angle 0 42 33.9044089	Scale Factor 1.000024171	Location Description 5/8" REBAR WITH ALUMINUM CAP STAMPED "403" FLUSH SOUTH OF E/W RUNNING GRAVEL ROAD IN CARDINAL HILLS SUBDIVISION STATION IS LOCATED IN THE SW 1/4 OF SECTION 33, T20N, R21W.
Elevation Adjust. Factor 0.9999371292	Combined Adjust. Factor 0.9999612987	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN S FACE OF 3" TREE		13.59	44.6	AZ Mark Station
MK # 2	60D NAIL IN NW FACE OF 2" OAK		12.10	39.7	Geodetic Azimuth
MK # 3	60D NAIL IN N FACE OF 2" OAK		7.56	24.8	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050404	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 225,060.0592		Latitude 36 21 20.5927092
Easting (M) 290,102.5397		Longitude 93 13 27.7948416
Elevation (M)* 391.726		Ellipsoid Height (M): 362.661
		Geoid Height (M): -29.066

Northing (SFT) 738,384.5442		
Easting (SFT) 951,778.0823		
Elevation (SFT)* 1,285.188		

Convergence Angle 0 42 44.8919749		
Scale Factor 1.000026490		
Elevation Adjust. Factor 0.9999385292		
Combined Adjust. Factor 0.9999650176		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
5/8" REBAR WITH ALUMINUM CAP STAMPED "404" FLUSH, SW OF A GREEN HOUSE AND SMALL BARN, IN THE SW 1/4 OF THE SW 1/4 OF SECTION 20, T20N, R21W.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TO GATE POST		6.75	22.1
MK # 2	60D NAIL IN S FACE OF WOOD POST		8.37	27.4
MK # 3	2ND T POST W OF WOODEN POST		11.44	37.5

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Comments</td> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050405	Date Monumented 4/1/1994	Monumented By Aerial Data Service	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 225,738.5125		Latitude 36 21 42.4871244
Easting (M) 289,820.3703		Longitude 93 13 39.4502412
Elevation (M)* 406.991		Ellipsoid Height (M): 377.920
Northing (SFT) 740,610.4364		Geoid Height (M): -29.071
Easting (SFT) 950,852.3316		
Elevation (SFT)* 1,335.270		

Convergence Angle	0	42	51.6742418
Scale Factor	1.000027925		
Elevation Adjust. Factor	0.9999361339		
Combined Adjust. Factor	0.9999640571		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN SW FACE OF 12" OAK TREE		18.84	61.8	AZ Mark Station
MK # 2	60D NAIL IN N FACE OF 24" OAK		23.10	75.8	Geodetic Azimuth
MK # 3	60D NAIL IN SE FACE OF 24" OAK		21.52	70.6	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050406	Date Monumented 4/1/1994	Monumented By Aerial Data Service	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 226,896.5525		Latitude 36 22 19.3972368
Easting (M) 288,211.6674		Longitude 93 14 44.5582392
Elevation (M)* 445.597		Ellipsoid Height (M): 416.517
		Geoid Height (M): -29.080

Northing (SFT) 744,409.7727		
Easting (SFT) 945,574.4455		
Elevation (SFT)* 1,461.929		

Convergence Angle 0 43 29.5605290		
Scale Factor 1.000030372		
Elevation Adjust. Factor 0.9999300762		
Combined Adjust. Factor 0.9999604461		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description
 5/8" REBAR WITH ALUMINUM CAP STAMPED "402" - FLUSH IN SUBDIVISION WEST OF DIRT ROAD IN BURLINGTON ARKANSAS STATION IS LOCATED IN THE SW 1/4 OF SECTION 20, T20N, R21W.

Location Reference Marks

	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN SE FACE OF 18" OAK TREE		19.37	63.6	
MK # 2	60D NAIL IN SW FACE OF TELEPHONE POLE		14.97	49.1	
MK # 3	TO NW CORNER OF WELL HOUSE		20.69	67.9	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050408	Date Monumented 12/7/2011	Monumented By AHTD	County Boone	Route 65B	Job Number: 090339,090490
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	210,856.9773	0.0040	
Easting (M)	300,487.4064	0.0030	
Elevation (M)*	320.724	0.0009	
Northing (SFT)	691,786.5997		
Easting (SFT)	985,849.0992		
Elevation (SFT)*	1,052.241		

Convergence Angle	0	38	38.8151737
Scale Factor	0.999999119		
Elevation Adjust. Factor	0.9999496705		
Combined Adjust. Factor	0.9999487896		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL of HWY 7	South	13.10	43.0
MK # 2	CL of Main St.	East	35.35	116.0
MK # 3	N.E. corner of bridge	245	25.60	84.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN FROM NGS BENCHMARK H 36 BY CREW S5102 DURING JOB 090339 IN DEC. 20011.</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN FROM NGS BENCHMARK H 36 BY CREW S5102 DURING JOB 090339 IN DEC. 20011.
Comments			
DIGITAL LEVELS WERE RAN FROM NGS BENCHMARK H 36 BY CREW S5102 DURING JOB 090339 IN DEC. 20011.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050408A	Date Monumented 12/7/2011	Monumented By AHTD	County Boone	Route 65B	Job Number: 090339
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	210,613.6612	0.0040	
Easting (M)	300,204.2406	0.0030	
Elevation (M)*	321.570	0.0000	
Northing (SFT)	690,988.3201		
Easting (SFT)	984,920.0794		
Elevation (SFT)*	1,055.016		

Convergence Angle	0	38	45.3489510
Scale Factor	0.999998684		
Elevation Adjust. Factor	0.9999495378		
Combined Adjust. Factor	0.9999482219		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	CL of South Spring St.	East	14.60	47.9	
MK # 2	CL of Lake Shore Dr.	North	9.45	31.0	
MK # 3	N.W. end of bridge	150	5.50	18.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	BASED ON NGS POINT H 36

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050409	Date Monumented 2/2/2015	Monumented By AHTD	County BOONE	Route 412	Job Number: 090427,090490
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	217,005.2239	0.0020			
Easting (M)	295,163.6885	0.0020			
Elevation (M)*	371.136				
Northing (SFT)	711,957.9721				
Easting (SFT)	968,382.8680				
Elevation (SFT)*	1,217.634				

Convergence Angle	0	40	44.5535016
Scale Factor	1.000010347		
Elevation Adjust. Factor	0.9999417601		
Combined Adjust. Factor	0.9999521065		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SIGN "DAVEY'S AUTO BODY"	106	42.70	140.1
MK # 2	END OF CULVERT	146	65.10	213.6
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MOBR</td> </tr> </table>	Ref Mon # 1	ARFY	Ref Mon # 2	ARHR	Ref Mon # 3	MOBR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ELEVATION BASED ON 3RD ORDER DIGITAL LEVELS BY CREW S5112 IN FEBRUARY 2015 FROM 2ND ORDER NGS BM C 194 FOR JOB #090427 (ARKANSAS WELCOME CENTER). STATIC SESSIONS ON NGS 1ST ORDER BM 1489 WERE PERFORMED SIMULTANEOUS W/STATIC SESSIONS ON AHTD GPS #'S 050409 & 050409A AND USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT. </td> </tr> </table>	Comments	ELEVATION BASED ON 3RD ORDER DIGITAL LEVELS BY CREW S5112 IN FEBRUARY 2015 FROM 2ND ORDER NGS BM C 194 FOR JOB #090427 (ARKANSAS WELCOME CENTER). STATIC SESSIONS ON NGS 1ST ORDER BM 1489 WERE PERFORMED SIMULTANEOUS W/STATIC SESSIONS ON AHTD GPS #'S 050409 & 050409A AND USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT.
Ref Mon # 1	ARFY								
Ref Mon # 2	ARHR								
Ref Mon # 3	MOBR								
Comments									
ELEVATION BASED ON 3RD ORDER DIGITAL LEVELS BY CREW S5112 IN FEBRUARY 2015 FROM 2ND ORDER NGS BM C 194 FOR JOB #090427 (ARKANSAS WELCOME CENTER). STATIC SESSIONS ON NGS 1ST ORDER BM 1489 WERE PERFORMED SIMULTANEOUS W/STATIC SESSIONS ON AHTD GPS #'S 050409 & 050409A AND USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT.									

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	36 17 1.2900984
Longitude	93 10 0.9918624
Ellipsoid Height (M):	342.842 0.0050
Geoid Height (M):	-28.298 0.0050

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 980 AND STATE HIGHWAY 412, NORTHWEST OF HARRISON, GO WEST ON 412 FOR 1.35 MILE TO THE MARK ON THE RIGHT, 52.9 FEET NORTH OF THE NORTH EDGE OF THE PAVEMENT OF 412, AND 36 FEET EAST OF THE CENTERLINE OF JOURNAGAN LANE ON TOP OF A SMALL HILL. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "050409 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050409A	Date Monumented 2/2/2015	Monumented By AHTD	County BOONE	Route 412	Job Number: 090427
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	216,616.9429 0.0020
Easting (M)	295,573.2761 0.0020
Elevation (M)*	370.523
Northing (SFT)	710,684.0868
Easting (SFT)	969,726.6567
Elevation (SFT)*	1,215.624

Convergence Angle	0	40	34.8968316
Scale Factor	1.000009612		
Elevation Adjust. Factor	0.9999418563		
Combined Adjust. Factor	0.9999514677		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF BOX CULVERT	286	58.60	192.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEVATION BASED ON 3RD ORDER DIGITAL LEVELS BY CREW S5112 IN FEBRUARY 2015 FROM 2ND ORDER NGS BM C 194 FOR JOB #090427 (ARKANSAS WELCOME CENTER). STATIC SESSIONS ON NGS 1ST ORDER BM 1489 WERE PERFORMED SIMULTANEOUS W/STATIC SESSIONS ON AHTD GPS #'S 050409 & 050409A AND USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT.
Ref Mon # 2 ARHR	
Ref Mon # 3 MOBR	

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 980 AND STATE HIGHWAY 412, NORTHWEST OF HARRISON, GO WEST ON 412 FOR 1.00 MILE TO THE MARK ON THE LEFT, 11.8 FEET SOUTH OF THE SOUTH EDGE OF THE PAVEMENT OF 412, AND 60 FEET EAST OF THE CENTERLINE OF A DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "050409A 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	050409
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050410	Date Monumented 7/1/2019	Monumented By AHTD	County BOONE	Route 62	Job Number: R90095,090640
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	208,336.1891 0.0010
Easting (M)	315,124.3370 0.0010
Elevation (M)*	360.677 0.0034
Northing (SFT)	683,516.3137
Easting (SFT)	1,033,870.4290
Elevation (SFT)*	1,183.320

Convergence Angle	0 32 57.2090898
Scale Factor	0.999994999
Elevation Adjust. Factor	0.9999434013
Combined Adjust. Factor	0.9999384006

SUPERCEDED CONTROL			
Horizontal Datum	NAD83(2011)		
Latitude	36	12	26.9979876
Longitude	92	56	37.8550572
Ellipsoid Height:	332.280		
Grid Northing (Meters)	208,336.1991		
Grid Easting (Meters)	315,124.3455		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	W END OF A GATE	313	11.06	36.3
MK # 2	30" OAK TREE	43	36.33	119.2
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHR Ref Mon # 2 ARM3 Ref Mon # 3 P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY 2019 FOR JOB #R90095 FROM NGS 1ST ORDER BM J 6</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY 2019 FOR JOB #R90095 FROM NGS 1ST ORDER BM J 6
Comments			
ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY 2019 FOR JOB #R90095 FROM NGS 1ST ORDER BM J 6			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF US-65 AND US-62/412 S OF HARRISON, GO E ON US-62/412 4.4 MILES TO DIAMOND RD. GO L ON DIAMOND RD AND CONTINUE FOR 1.2 MILES TO STATION ON L. 15.7' N OF C/L DIAMOND RD. THE MARK IS A STANDARD 2½" CAP STAMPED "050410 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050410A	Date Monumented 7/1/2019	Monumented By AHTD	County BOONE	Route 62	Job Number: R90095,090640
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	208,601.6453 0.0010
Easting (M)	315,487.6731 0.0010
Elevation (M)*	349.943 0.0031
Northing (SFT)	684,387.2313
Easting (SFT)	1,035,062.4742
Elevation (SFT)*	1,148.104

Convergence Angle	0 32 48.8045834
Scale Factor	0.999995460
Elevation Adjust. Factor	0.9999450856
Combined Adjust. Factor	0.9999405458

SUPERCEDED CONTROL			
Horizontal Datum	NAD83(2011)		
Latitude	36 12 35.7225120		
Longitude	92 56 23.4118320		
Ellipsoid Height:	321.537		
Grid Northing (Meters)	208,601.6507		
Grid Easting (Meters)	315,487.6813		

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF US-65 AND US-62/412 S OF HARRISON, GO E ON US-62/412 4.4 MILES TO DIAMOND RD. GO L ON DIAMOND RD AND CONTINUE FOR 1.5 MILES TO STATION ON L. 11.9' N OF C/L DIAMOND RD. THE MARK IS A STANDARD 2½" CAP STAMPED "050410A 2019" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	FENCE CORNER	106	2.26	7.4	
MK # 2	POWER POLE	80	3.23	10.6	
MK # 3	SE COR OF A HOUSE	296	23.26	76.3	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR Ref Mon # 2 ARM3 Ref Mon # 3 P777	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY 2019 FOR JOB #R90095 FROM NGS 1ST ORDER BM J 6

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050411	Date Monumented 7/9/2019	Monumented By ARDOT	County BOONE	Route 7	Job Number: 090555
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	204,565.7701 0.0030
Easting (M)	298,922.9033 0.0030
Elevation (M)*	347.173
Northing (SFT)	671,146.1974
Easting (SFT)	980,716.2252
Elevation (SFT)*	1,139.016

Convergence Angle	0 39 13.5949855
Scale Factor	0.999988452
Elevation Adjust. Factor	0.9999455202
Combined Adjust. Factor	0.9999339729

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GATE POST	199	46.79	153.5
MK # 2	COMBINATION POLE	36	10.36	34.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHR Ref Mon # 2 ARM3 Ref Mon # 3 ARRV, MOBR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM L 18 BY S5112 IN JULY 2019 FOR JOB #090555</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM L 18 BY S5112 IN JULY 2019 FOR JOB #090555
Comments			
ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM L 18 BY S5112 IN JULY 2019 FOR JOB #090555			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 43S, SOUTHWEST OF HARRISON, GO SOUTH ON HIGHWAY 7 3.45 MILES TO THE MARK ON THE LEFT, EAST 29.7' OF THE C/L OF THE HIGHWAY AND NORTH 126' OF THE C/L OF A PRIVATE DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 050411" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	050411A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050411A	Date Monumented 7/9/2019	Monumented By ARDOT	County BOONE	Route 7	Job Number: 090555
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	205,098.1987 0.0030
Easting (M)	298,925.9152 0.0030
Elevation (M)*	343.553
Northing (SFT)	672,893.0069
Easting (SFT)	980,726.1068
Elevation (SFT)*	1,127.142

Convergence Angle	0 39 13.6663209
Scale Factor	0.999989314
Elevation Adjust. Factor	0.9999460882
Combined Adjust. Factor	0.9999354027

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By: 3rd Order - Digital Levels	Elevation Datum: NAVD 88
Geoid Datum: Geoid12B	Latitude 36 10 36.4340964
Longitude 93 7 24.8012508	Ellipsoid Height (M): 315.330 0.0230
Geoid Height (M): -28.240 0.0230	

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 43S, SOUTHWEST OF HARRISON, GO SOUTH ON HIGHWAY 7 3.15 MILES TO THE MARK ON THE RIGHT, WEST 28.3' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 050411A" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR Ref Mon # 2 ARM3 Ref Mon # 3 ARRV, MOBR	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM L 18 BY S5112 IN JULY 2019 FOR JOB #090555

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060002	Date Monumented 1/12/1994	Monumented By AHTD	County BRADLEY	Route 15	Job Number: R70095
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	514,040.9052	
Easting (M)	396,934.1830	
Elevation (M)*		
Northing (SFT)	1,686,482.5365	
Easting (SFT)	1,302,274.8987	
Elevation (SFT)*		

Convergence Angle	0	1	6.6316045
Scale Factor	0.999935925		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT IN SIXTH METAL GUARD RA IL POST	24	2.10	6.9
MK # 2	PUNCH POINT IN TENTH METAL GUARD RA IL POST	231	3.75	12.3
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 WARRPORT	
Ref Mon # 2 CELLPORT	
Ref Mon # 3 93400004	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 41 41.5315716
Longitude	92 1 59.0507652
Ellipsoid Height (M):	13.634
Geoid Height (M):	-26.542

Location Description
<p>FROM THE BRADLEY COUNTY COURTHOUSE IN WARREN, GO NORTH ON HWY. 15 FOR 0.32 KM (0.20 MILES) TO A "T" JCT., GO RIGHT (EAST) FOR 0.16 KM (0.10 MILES) TO ANOTHER "T" JCT., GO LEFT (NORTH) ON HWY. 15 FOR 5.79 KM (3.62 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 8.10 METERS EAST OF THE CENTERLINE OF HWY. 15, 5.70 METERS SOUTH OF A BRIDGE END (BRIDGE NO. 1475R) AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "060002 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	06002A
Geodetic Azimuth	34 21 54.532709
Grid Azimuth	34 23 01.135583

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060002A	Date Monumented 1/12/1994	Monumented By AHTD	County BRADLEY	Route 15	Job Number: R70095
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	514,482.3261	
Easting (M)	397,236.2450	
Elevation (M)*		
Northing (SFT)	1,687,930.7649	
Easting (SFT)	1,303,265.9138	
Elevation (SFT)*		

Convergence Angle	0	1	0.0694679
Scale Factor	0.999935518		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	WARRPORT
Ref Mon # 2	CELLPORT
Ref Mon # 3	93400004

Comments

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 41 55.8625812
Longitude	92 1 47.3261880
Ellipsoid Height (M):	14.653
Geoid Height (M):	-26.541

Location Description
<p>FROM THE BRADLEY COUNTY COURTHOUSE IN WARREN, GO NORTH ON HWY. 15 FOR 10.33 KM (6.42 MILES) TO THE STATION ON THE LEFT. THE STATION IS 8.10 METERS WEST OF THE CENTERLINE OF HWY. 15, 21.70 METERS EAST OF OLD HWY. 15 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "06002A 1994" AND IS SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060003	Date Monumented 5/14/1996	Monumented By AHTD	County BRADLEY	Route 15	Job Number: R70105
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	468,652.8769	
Easting (M)	367,889.2319	
Elevation (M)*	34.150	
Northing (SFT)	1,537,571.9803	
Easting (SFT)	1,206,983.2550	
Elevation (SFT)*	112.040	

Convergence Angle	0	11	34.5620820
Scale Factor	1.000003331		
Elevation Adjust. Factor	0.9999946408		
Combined Adjust. Factor	0.9999979718		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	1st GUARD RAIL POST NORTH OF THE BRID	189	6.21	20.4
MK # 2	8th GUARD RAIL POST NORTH OF THE BRID	161	1.14	3.7
MK # 3	10th GUARD RAIL POST NORTH OF THE BRI	28	2.92	9.6

Area Reference Monuments (used for Processing) Ref Mon # 1 STELL 1986 Ref Mon # 2 WARRPORT 1986 Ref Mon # 3 700003	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description	
TO REACH THE STATION FROM THE JUNCTION OF HWY-15 AND HWY-129 IN THE SMALL VILLAGE OF OLD UNION LOCATED ABOUT 11.3 KM. (7.0 MI.) EAST OF EL DORADO, GO EAST ON HWY-15 FOR 17.54 KM. (10.90 MI.) TO THE JUNCTION WITH HWY-275 SOUTH, CONTINUE EASTERLY ON HWY-15 FOR 2.09 KM. (1.30 MI.) CROSSING OVER THE OUACHITA RIVER BRIDGE TO THE STATION ON THE LEFT NEAR THE NORTH END OF THE BRIDGE. 11.86 METERS NORTH OF THE BRIDGE END, 6.5 METERS WEST OF THE CENTER OF HWY-15 AND 0.70 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060003 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

AZ Mark Station	700007
Geodetic Azimuth	203 29 48.32102
Grid Azimuth	203 41 22.95541

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060005	Date Monumented 2/5/1998	Monumented By AHTD	County BRADLEY	Route 4	Job Number: 001800,070159
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 504,122.0902		Latitude 33 36 19.5595596
Easting (M) 395,513.6640		Longitude 92 2 54.0299868
Elevation (M)* 53.317		Ellipsoid Height (M): 27.484
		Geoid Height (M): -25.748

Northing (SFT) 1,653,940.5576		
Easting (SFT) 1,297,614.4126		
Elevation (SFT)* 174.924		

Convergence Angle	0	1	37.4029628
Scale Factor	0.999946321		
Elevation Adjust. Factor	0.9999916329		
Combined Adjust. Factor	0.9999379543		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 4B, LOCATED ON THE EAST SIDE OF WARREN, GO SOUTH ON U.S. HIGHWAY 278 AND STATE HIGHWAY 4 FOR 0.50 KM (0.32 MI) TO THE STATION ON THE LEFT. THE STATION IS 25.535 METERS NORTH OF A GRAVEL DRIVE, 17.133 METERS EAST OF THE CENTER OF U.S. HIGHWAY 278 AND STATE HIGHWAY 4 AND 2.250 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060005 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	30	21.18	69.5
MK # 2	TELEPHONE JUNCTION BOX	188	17.95	58.9
MK # 3	NORTH END OF 0.42 METER CMP	208	22.03	72.3

AZ Mark Station	060005A
Geodetic Azimuth	9 42 16.37699
Grid Azimuth	9 43 53.76989

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="STELL"/> Ref Mon # 2 <input type="text" value="K 124"/> Ref Mon # 3 <input type="text" value="S 197"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060005A	Date Monumented 2/5/1998	Monumented By AHTD	County BRADLEY	Route 4	Job Number: 001800 , 020462 , 070159
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	504,612.0972	
Easting (M)	395,597.7000	
Elevation (M)*	56.420	
Northing (SFT)	1,655,548.1889	
Easting (SFT)	1,297,890.1208	
Elevation (SFT)*	185.104	

Convergence Angle	0	1	35.5833854
Scale Factor	0.999945751		
Elevation Adjust. Factor	0.9999911460		
Combined Adjust. Factor	0.9999368974		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF MAN HOLE COVER	81	8.50	27.9
MK # 2	R/W SIGN	28	7.20	23.6
MK # 3	POWER POLE	284	22.00	72.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 100%;" type="text" value="STELL"/> Ref Mon # 2 <input style="width: 100%;" type="text" value="K 124"/> Ref Mon # 3 <input style="width: 100%;" type="text" value="S 197"/>	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 36 35.4659436
Longitude	92 2 50.7789456
Ellipsoid Height (M):	30.630
Geoid Height (M):	-25.748

Location Description
<p>THE STATION IS LOCATED ON THE EAST SIDE OF WARREN, AT THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 4B. THE STATION IS 13.70 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 278 AND STATE HIGHWAY 4, 8.40 METERS EAST OF THE CENTER OF LURALEA LANE AND 0.41 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060005A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060006	Date Monumented 2/5/1998	Monumented By AHTD	County BRADLEY	Route 172	Job Number: 001800
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	504,282.5482	
Easting (M)	401,307.2420	
Elevation (M)*	35.591	
Northing (SFT)	1,654,466.9936	
Easting (SFT)	1,316,622.1765	
Elevation (SFT)*	116.768	

Convergence Angle	0	0	28.3820475
Scale Factor	0.999946133		
Elevation Adjust. Factor	0.9999944146		
Combined Adjust. Factor	0.9999405479		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF EAST HEADWALL	169	37.78	123.9
MK # 2	NORTH END OF WEST HEADWALL	200	41.53	136.2
MK # 3	NBC IN 0.23 METER OAK TREE	116	22.40	73.5

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>STELL</td> </tr> <tr> <td>Ref Mon # 2</td> <td>K 124</td> </tr> <tr> <td>Ref Mon # 3</td> <td>S 197</td> </tr> </table>	Ref Mon # 1	STELL	Ref Mon # 2	K 124	Ref Mon # 3	S 197	<table style="width: 100%;"> <tr> <td style="text-align: center;">Comments</td> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Ref Mon # 1	STELL								
Ref Mon # 2	K 124								
Ref Mon # 3	S 197								
Comments									

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 36 24.7993200
Longitude	91 59 9.2897628
Ellipsoid Height (M):	9.869
Geoid Height (M):	-25.722

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 172, LOCATED ABOUT 7.24 KM (4.50 MI) EAST OF WARREN, GO SOUTH ON STATE HIGHWAY 172 FOR 0.37 KM (0.23 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.390 METERS EAST OF THE CENTER OF STATE HIGHWAY 172 AND 0.500 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060006 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060006A	Date Monumented 2/5/1998	Monumented By AHTD	County BRADLEY	Route 4	Job Number: 001800
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Zone Arkansas South	Zone Code 302	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 504,652.2621		Latitude 33 36 36.8001036
Easting (M) 401,247.9160		Longitude 91 59 11.5892376
Elevation (M)* 36.789		Ellipsoid Height (M): 11.067
Northing (SFT) 1,655,679.9632		Geoid Height (M): -25.722
Easting (SFT) 1,316,427.5377		
Elevation (SFT)* 120.699		

Convergence Angle 0 0 27.0950529	Location Description
Scale Factor 0.999945703	<p>THE STATION IS LOCATED ABOUT 7.24 KM (4.50 MI) EAST OF WARREN AT THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 172, THE STATION IS 7.173 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 278 AND STATE HIGHWAY 4 AND 0.500 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060006A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 0.9999942266	
Combined Adjust. Factor 0.9999399300	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NORTH END OF EAST HEADWALL	148	36.47	119.6		060006
MK # 2	NORTH END OF WEST HEADWALL	173	34.55	113.4		170 53 28.84125
MK # 3	NBC IN 0.80 METER PINE TREE	307	41.34	135.6		170 53 01.73911

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 STELL	
Ref Mon # 2 K 124	
Ref Mon # 3 S 197	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060007	Date Monumented 2/4/1999	Monumented By AHTD	County BRADLEY	Route 15	Job Number: 070182,070204,070159
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 507,079.3422		Latitude 33 37 55.5237300
Easting (M) 394,101.4560		Longitude 92 3 48.8823444
Elevation (M)* 58.714		Ellipsoid Height (M): 32.959
		Geoid Height (M): -25.757

Northing (SFT) 1,663,642.8085		
Easting (SFT) 1,292,981.1936		
Elevation (SFT)* 192.631		

Convergence Angle 0 2 8.1033165		
Scale Factor 0.999942970		
Elevation Adjust. Factor 0.9999907859		
Combined Adjust. Factor 0.9999337565		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
<p>THE STATION IS AT THE JUNCTION OF STATE HIGHWAY 15 AND STATE HIGHWAY 15B, LOCATED ON THE NORTH SIDE OF WARREN. THE STATION IS 38.87 METERS WEST OF THE CENTER OF STATE HIGHWAY 15 (SMITH ROAD), 27.53 METERS EAST OF THE CENTER OF A PAVED DRIVE, 11.06 METERS NORTH OF THE CENTER OF STATE HIGHWAY 15 (MYRTLE STREET) OLD STATE HIGHWAY 376 AND 1.45 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "060007 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF RCP	90	16.68	54.7
MK # 2	WOODEN GATE POST	271	25.18	82.6
MK # 3	TELEPHONE JUNCTION BOX	22.86	22.86	75.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD MON 1	Elevations based on NGS POINT WARREN MAG STATION
Ref Mon # 2 K 124	
Ref Mon # 3 060005	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060007A	Date Monumented 2/4/1999	Monumented By AHTD	County BRADLEY	Route 15	Job Number: 070182,070204,070159
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	507,055.3402	
Easting (M)	393,690.6760	
Elevation (M)*	57.757	
Northing (SFT)	1,663,564.0620	
Easting (SFT)	1,291,633.4928	
Elevation (SFT)*	189.491	

Convergence Angle	0	2	17.0242002
Scale Factor	0.999942997		
Elevation Adjust. Factor	0.9999909361		
Combined Adjust. Factor	0.9999339336		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	COMBINATION POLE	90	19.75	64.8	060007A
MK # 2	EAST END OF CMP	275	22.45	73.7	86 37 04.538006
MK # 3					86 39 21.515708

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD MON 1 Ref Mon # 2 K 124 Ref Mon # 3 060005	Elevations based on NGS POINT WARREN MAG STATION

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060008	Date Monumented 2/11/1999	Monumented By AHTD	County BRADLEY	Route 8	Job Number: R70123
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 496,296.7342		Latitude 33 32 5.5374108
Easting (M) 394,402.1930		Longitude 92 3 36.9664668
Elevation (M)* 73.936		Ellipsoid Height (M): 48.240
		Geoid Height (M): -25.754

Northing (SFT) 1,628,266.8688		
Easting (SFT) 1,293,967.8615		
Elevation (SFT)* 242.572		

Convergence Angle 0 2 1.4341108		
Scale Factor 0.999956227		
Elevation Adjust. Factor 0.9999883972		
Combined Adjust. Factor 0.9999446247		

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 15, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF WARREN, GO SOUTH ON STATE HIGHWAY 8 FOR 1.61 KM (1.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 54.25 METERS NORTH OF THE CENTER OF A GRAVEL ROAD, 8.25 METERS WEST OF THE CENTER OF STATE HIGHWAY 8 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060008 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station 060008A	
Geodetic Azimuth 339 56 57.37497	
Grid Azimuth 339 58 58.82411	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 STELL	NO LOG MILE BECAUSE THIS SECTION OF HIGHWAY 8 IS NOT IN OUR LOG MILE BOOK. ELEV BASED ON NGS POINT SUMPTER
Ref Mon # 2 AHTD MON 1	
Ref Mon # 3 060005A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060008A	Date Monumented 2/11/1999	Monumented By AHTD	County BRADLEY	Route 8	Job Number: R70123
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 496,590.5062		Latitude 33 32 15.0708876
Easting (M) 394,295.1700		Longitude 92 3 41.1214248
Elevation (M)* 74.272		Ellipsoid Height (M): 48.580
		Geoid Height (M): -25.754

Northing (SFT) 1,629,230.6858		
Easting (SFT) 1,293,616.7369		
Elevation (SFT)* 243.674		

Convergence Angle 0 2 3.7596021		
Scale Factor 0.999955828		
Elevation Adjust. Factor 0.9999883444		
Combined Adjust. Factor 0.9999441730		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 15, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF WARREN, GO SOUTH ON STATE HIGHWAY 8 FOR 1.24 KM (0.77 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.50 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 8 AND 0.54 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060008A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 STELL	NO LOG MILE BECAUSE THIS SECTION OF HIGHWAY 8 IS NOT IN OUR LOG MILE BOOK.ELEV BASED ON NGS POINT SUMPTER
Ref Mon # 2 AHTD MON 1	
Ref Mon # 3 060005A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060009	Date Monumented 2/11/1999	Monumented By AHTD	County BRADLEY	Route 8	Job Number: R70123,070197
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 491,767.5862		Latitude 33 29 38.5416168
Easting (M) 395,301.7920		Longitude 92 3 2.0120472
Elevation (M)* 87.262		Ellipsoid Height (M): 61.558
		Geoid Height (M): -25.763

Northing (SFT) 1,613,407.4891		
Easting (SFT) 1,296,919.2959		
Elevation (SFT)* 286.292		

Convergence Angle	0	1	41.8704477
Scale Factor	0.999962645		
Elevation Adjust. Factor	0.9999863059		
Combined Adjust. Factor	0.9999489514		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	33	29	38.5391508
Longitude	92	3	2.0143008
Ellipsoid Height:	61.499		
Grid Northing (Meters)	491,767.5102		
Grid Easting (Meters)	395,301.7338		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 15, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF WARREN, GO SOUTH ON STATE HIGHWAY 8 FOR 6.76 KM (4.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.75 METERS EAST OF THE CENTER OF STATE HIGHWAY 8 AND 1.00 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060009 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	WOODEN CORNER FENCE POST		135	4.70	15.4	AZ Mark Station 060009A
MK # 2	0.32 METER PECAN TREE		22	14.75	48.4	Geodetic Azimuth 181 20 42.34968
MK # 3	NONE					Grid Azimuth 181 22 24.22178

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="STELL"/> Ref Mon # 2 <input type="text" value="AHTD MON 1"/> Ref Mon # 3 <input type="text" value="060005A"/>	<input type="text" value="ELEV BASED ON NGS POINT SUMPTER"/> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060009A	Date Monumented 2/11/1999	Monumented By AHTD	County BRADLEY	Route 8	Job Number: R70123,070197
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	491,309.1581	
Easting (M)	395,290.8010	
Elevation (M)*	82.777	
Northing (SFT)	1,611,903.4629	
Easting (SFT)	1,296,883.2363	
Elevation (SFT)*	271.578	

Convergence Angle	0	1	42.1038421
Scale Factor	0.999963323		
Elevation Adjust. Factor	0.9999870098		
Combined Adjust. Factor	0.9999503332		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	33	29	23.6587992
Longitude	92	3	2.4314976
Ellipsoid Height:	57.010		
Grid Northing (Meters)	491,309.0803		
Grid Easting (Meters)	395,290.7379		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	52	21.50	70.5
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	060005A

Comments

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 29 23.6613264

Longitude 92 3 2.4290532

Ellipsoid Height (M): 57.012

Geoid Height (M): -25.765

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 15, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF WARREN, GO SOUTH ON STATE HIGHWAY 8 FOR 7.24 KM (4.50 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.85 METERS WEST OF THE CENTER OF STATE HIGHWAY 8, 6.35 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD TO A WATER TANK AND 1.00 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060009A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	060009
Geodetic Azimuth	1 20 42.119571
Grid Azimuth	1 22 24.221776

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060010	Date Monumented 2/28/2001	Monumented By AHTD	County BRADLEY	Route 8	Job Number: 070197
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	488,488.0916	
Easting (M)	395,893.2620	
Elevation (M)*		
Northing (SFT)	1,602,648.0139	
Easting (SFT)	1,298,859.8104	
Elevation (SFT)*		

Convergence Angle	0	1	29.0150166
Scale Factor	0.999967606		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE GO NORTH ON STATE HIGHWAY 8 FOR 11.75 KM (7.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.25 METERS WEST OF THE CENTER OF STATE HIGHWAY 8 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060010 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 735.100 METERS.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: <input type="text" value="STELL"/></p> <p>Ref Mon # 2: <input type="text" value="AHTD MON 1"/></p> <p>Ref Mon # 3: <input type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060010A	Date Monumented 2/28/2001	Monumented By AHTD	County BRADLEY	Route 8	Job Number: 070197
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	487,761.7673	
Easting (M)	396,006.3344	
Elevation (M)*		
Northing (SFT)	1,600,265.0649	
Easting (SFT)	1,299,230.7821	
Elevation (SFT)*		

Convergence Angle	0	1	26.5575261
Scale Factor	0.999968740		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>STELL</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD MON 1</td> </tr> <tr> <td>Ref Mon # 3</td> <td></td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	STELL	Ref Mon # 2	AHTD MON 1	Ref Mon # 3		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	STELL										
Ref Mon # 2	AHTD MON 1										
Ref Mon # 3											
Comments											

Vertical Determined By: NONE	
Elevation Datum: NONE	
Geoid Datum:	
Latitude	33 27 28.5272028
Longitude	92 2 34.6524324
Ellipsoid Height (M):	43.064
Geoid Height (M):	-25.770

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE GO NORTH ON STATE HIGHWAY 8 FOR 11.02 KM (6.85 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.30 METERS EAST OF THE CENTER OF STATE HIGHWAY 8 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060010A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUJND. THE SHOT DISTANCE IS 735.100 METERS.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060011	Date Monumented 2/28/2001	Monumented By AHTD	County BRADLEY	Route 8	Job Number: 070197
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	485,349.5884	
Easting (M)	397,901.2884	
Elevation (M)*		
Northing (SFT)	1,592,351.1079	
Easting (SFT)	1,305,447.8104	
Elevation (SFT)*		

Convergence Angle	0	0	45.4753288
Scale Factor	0.999972599		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing) Ref Mon # 1 STELL Ref Mon # 2 AHTD MON 1 Ref Mon # 3	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 26 10.2500052
Longitude	92 1 21.2508228
Ellipsoid Height (M):	43.046
Geoid Height (M):	-25.764

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE GO NORTH ON STATE HIGHWAY 8 FOR 7.61 KM (4.73 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.50 METERS NORTH OF THE CENTER OF STATE HIGHWAY 8 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060011 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 387.270.

AZ Mark Station	060011A
Geodetic Azimuth	284 46 55.42133
Grid Azimuth	284 47 40.95957

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060011A	Date Monumented 2/28/2001	Monumented By AHTD	County BRADLEY	Route 8	Job Number: 070197
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	485,448.4763	
Easting (M)	397,526.8733	
Elevation (M)*		
Northing (SFT)	1,592,675.5427	
Easting (SFT)	1,304,219.4168	
Elevation (SFT)*		

Convergence Angle	0	0	53.5887931
Scale Factor	0.999972438		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 33 26 13.4568852

Longitude 92 1 35.7471588

Ellipsoid Height (M): 42.212

Geoid Height (M): -25.766

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE GO NORTH ON STATE HIGHWAY 8 FOR 7.97 KM (4.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.50 METERS NORTH OF THE CENTER OF STATE HIGHWAY 8 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060011A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 387.270 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060012	Date Monumented 2/28/2001	Monumented By AHTD	County BRADLEY	Route 8	Job Number: 070197
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	482,304.1181	
Easting (M)	398,695.5637	
Elevation (M)*		
Northing (SFT)	1,582,359.4275	
Easting (SFT)	1,308,053.6952	
Elevation (SFT)*		

Convergence Angle	0	0	28.2557645
Scale Factor	0.999977676		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	

Comments

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 24 31.4017740
Longitude	92 0 50.4846072
Ellipsoid Height (M):	32.143
Geoid Height (M):	-25.764

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE GO NORTH ON STATE HIGHWAY 8 FOR 4.18 KM (2.60 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.35 METERS WEST OF THE CENTER OF STATE HIGHWAY 8 AND 1.00 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060012 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 458.088 METERS.</p>

AZ Mark Station	060012A
Geodetic Azimuth	175 39 09.81611
Grid Azimuth	175 39 38.06576

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060012A	Date Monumented 2/28/2001	Monumented By AHTD	County BRADLEY	Route 8	Job Number: 070197
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	481,847.3534	
Easting (M)	398,730.2241	
Elevation (M)*		
Northing (SFT)	1,580,860.8586	
Easting (SFT)	1,308,167.4102	
Elevation (SFT)*		

Convergence Angle	0	0	27.5036557
Scale Factor	0.999978457		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	155	6.65	21.8
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 33 24 16.5758184

Longitude 92 0 49.1408136

Ellipsoid Height (M): 41.221

Geoid Height (M): -25.764

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE GO NORTH ON STATE HIGHWAY 8 FOR 3.70 KM (2.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 9.50 METERS EAST OF THE CENTER OF STATE HIGHWAY 8 AND 1.00 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060012A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 458.088 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060013	Date Monumented 2/28/2001	Monumented By AHTD	County BRADLEY	Route 160	Job Number: 070197,001941
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas South</td> <td>302</td> </tr> <tr> <td>Horizontal Datum</td> <td>NAD 83 (1997)</td> </tr> <tr> <td>Northing (M)</td> <td>478,323.0144</td> </tr> <tr> <td>Easting (M)</td> <td>398,476.0477</td> </tr> <tr> <td>Elevation (M)*</td> <td></td> </tr> <tr> <td>Northing (SFT)</td> <td>1,569,298.0897</td> </tr> <tr> <td>Easting (SFT)</td> <td>1,307,333.4998</td> </tr> <tr> <td>Elevation (SFT)*</td> <td></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Convergence Angle</td> <td>0</td> <td>0</td> <td>32.9969656</td> </tr> <tr> <td>Scale Factor</td> <td colspan="3">0.999984655</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td colspan="3"></td> </tr> <tr> <td>Combined Adjust. Factor</td> <td colspan="3"></td> </tr> </table>	Zone	Zone Code	Arkansas South	302	Horizontal Datum	NAD 83 (1997)	Northing (M)	478,323.0144	Easting (M)	398,476.0477	Elevation (M)*		Northing (SFT)	1,569,298.0897	Easting (SFT)	1,307,333.4998	Elevation (SFT)*		Convergence Angle	0	0	32.9969656	Scale Factor	0.999984655			Elevation Adjust. Factor				Combined Adjust. Factor				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Vertical Determined By:</td> <td>NONE</td> </tr> <tr> <td>Elevation Datum:</td> <td>NONE</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td>33 22 22.1782980</td> </tr> <tr> <td>Longitude</td> <td>92 0 58.9557168</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>35.017</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-25.770</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">Location Description</p> <p>THE STATION IS LOCATED IN JOHNSVILLE AT THE JUNCTION OF STATE HIGHWAY 160, STATE HIGHWAY 8 AND COUNTY ROAD 56. THE STATION IS 12.80 WEST-NORTHWEST OF THE CENTER OF COUNTY ROAD 56, 8.30 METERS SOUTH-SOUTHEAST OF THE CENTER OF STATE HIGHWAY 160, 3.30 METERS NORTH-NORTHWEST OF THE CENTER OF A GRAVEL DRIVE AND 2.50 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060013 2001" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 508.342 METERS.</p> </div>	Vertical Determined By:	NONE	Elevation Datum:	NONE	Geoid Datum:		Latitude	33 22 22.1782980	Longitude	92 0 58.9557168	Ellipsoid Height (M):	35.017	Geoid Height (M):	-25.770
Zone	Zone Code																																																
Arkansas South	302																																																
Horizontal Datum	NAD 83 (1997)																																																
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Ellipsoid Height (M):	35.017																																																
Geoid Height (M):	-25.770																																																

SUPERCEDED CONTROL												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)	
Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
Grid Northing (Meters)												
Grid Easting (Meters)												

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	060013A
Geodetic Azimuth	53 34 16.498658
Grid Azimuth	53 34 49.419732

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 STELL</p> <p>Ref Mon # 2 AHTD MON 1</p> <p>Ref Mon # 3 </p>	<div style="border: 1px solid black; height: 100px; width: 100%;"></div> <p style="text-align: center; margin-top: 5px;">Comments</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060013A	Date Monumented 2/28/2001	Monumented By AHTD	County BRADLEY	Route 8	Job Number: 070197,001941
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	478,624.8063	
Easting (M)	398,885.0950	
Elevation (M)*		
Northing (SFT)	1,570,288.2187	
Easting (SFT)	1,308,675.5158	
Elevation (SFT)*		

Convergence Angle	0	0	24.1409452
Scale Factor	0.999984112		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:

NONE

Elevation Datum:

NONE

Geoid Datum:

Latitude

33

22

31.9759752

Longitude

92

0

43.1326548

Ellipsoid Height (M):

37.180

Geoid Height (M):

-25.766

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE GO EAST ON STATE HIGHWAY 8 FOR 0.51 KM (0.32 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.70 METERS NORTH-NORTHWEST OF THE CENTER OF STATE HIGHWAY 8 AND 0.50 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060013A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 508.342 METERS.

AZ Mark Station

060013

Geodetic Azimuth

233 34 25.20210

Grid Azimuth

233 34 49.41973

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060014	Date Monumented 3/28/2001	Monumented By AHTD	County BRADLEY	Route 63	Job Number: 070204
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	495,260.7468	
Easting (M)	391,860.5155	
Elevation (M)*	73.912	
Northing (SFT)	1,624,867.9668	
Easting (SFT)	1,285,629.0413	
Elevation (SFT)*	242.493	

Convergence Angle	0	2	56.5518642
Scale Factor	0.999957653		
Elevation Adjust. Factor	0.9999884009		
Combined Adjust. Factor	0.9999460544		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MARKER SIGN	65	3.92	12.9
MK # 2	COVER OF WATER METER	131	6.51	21.4
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD MON 1 Ref Mon # 2 S 197 Ref Mon # 3 STELL	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation based on Job BM Marked 243.494 Feet (?7715?)</td> </tr> </table>	Comments	Elevation based on Job BM Marked 243.494 Feet (?7715?)
Comments			
Elevation based on Job BM Marked 243.494 Feet (?7715?)			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 31 31.8507132
Longitude	92 5 15.4454208
Ellipsoid Height (M):	47.967
Geoid Height (M):	-25.773

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 8, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF WARREN, GO SOUTHWEST ON U.S. HIGHWAY 63 FOR 2.70 KM (1.67 MI) TO THE STATION ON THE LEFT. THE STATION IS 47.30 METERS NORTHEAST OF THE CENTER OF COUNTY ROAD 33, 11.25 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060014 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 526.105 METERS.

AZ Mark Station	060014A
Geodetic Azimuth	57 22 55.235677
Grid Azimuth	57 25 51.724257

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060014A	Date Monumented 3/28/2001	Monumented By AHTD	County BRADLEY	Route 63	Job Number: 070204
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	495,543.9415	
Easting (M)	392,303.8637	
Elevation (M)*	74.035	
Northing (SFT)	1,625,797.0814	
Easting (SFT)	1,287,083.5928	
Elevation (SFT)*	242.896	

Convergence Angle	0	2	46.9402654
Scale Factor	0.999957261		
Elevation Adjust. Factor	0.9999883816		
Combined Adjust. Factor	0.9999456431		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MARKER SIGN	55	5.62	18.4
MK # 2	R/W MARKER SIGN	145	0.71	2.3
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD MON 1 Ref Mon # 2 S 197 Ref Mon # 3 STELL	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation based on Job BM Marked 243.494 Feet (?7715?)</td> </tr> </table>	Comments	Elevation based on Job BM Marked 243.494 Feet (?7715?)
Comments			
Elevation based on Job BM Marked 243.494 Feet (?7715?)			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 31 41.0549088
Longitude	92 4 58.2723660
Ellipsoid Height (M):	48.089
Geoid Height (M):	-25.768

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 8, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF WARREN, GO SOUTHWEST ON U.S. HIGHWAY 63 FOR 2.17 KM (1.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.10 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.63 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060014A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 526.105 METERS.

AZ Mark Station	060014
Geodetic Azimuth	237 23 04.72082
Grid Azimuth	237 25 51.72426

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060015	Date Monumented 3/5/2002	Monumented By AHTD	County BRADLEY	Route 8	Job Number: 001941
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	479,160.7061	
Easting (M)	402,637.5390	
Elevation (M)*	29.007	
Northing (SFT)	1,572,046.4166	
Easting (SFT)	1,320,986.6592	
Elevation (SFT)*	95.167	

Convergence Angle	0	0	57.1136234
Scale Factor	0.999983155		
Elevation Adjust. Factor	0.9999954479		
Combined Adjust. Factor	0.9999786030		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END CORRIGATED METAL PIPE	60	24.20	79.4
MK # 2	POWER POLE	90	15.00	49.2
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 060013	
Ref Mon # 2 020009	
Ref Mon # 3 FOUNTAIN AZ	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 22 49.3609764
Longitude	91 58 17.9550228
Ellipsoid Height (M):	3.432
Geoid Height (M):	-25.737

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE, GO EAST ON STATE HIGHWAY 8 FOR 2.68 MILES TO THE STATION ON THE RIGHT. THE STATION IS 27.5 METERS WEST OF THE CENTER OF A FIELD ENTRANCE, 11.70 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 8, AND 1.30 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "060015 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED BY 3 WIRE LEVEL ON THIS STATION BY CREW S5101.</p>

AZ Mark Station	060015A
Geodetic Azimuth	265 13 03
Grid Azimuth	265 12 06

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060015A	Date Monumented 3/5/2002	Monumented By AHTD	County BRADLEY	Route 8	Job Number: 001941
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	479,115.8091	
Easting (M)	402,102.7020	
Elevation (M)*	29.304	
Northing (SFT)	1,571,899.1170	
Easting (SFT)	1,319,231.9481	
Elevation (SFT)*	96.142	

Convergence Angle	0	0	45.5319774
Scale Factor	0.999983234		
Elevation Adjust. Factor	0.9999954013		
Combined Adjust. Factor	0.9999786353		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EASTERN WOODEN BRACE POST	120	2.10	6.9
MK # 2	CENTER WOODEN BRACE POST	170	1.30	4.3
MK # 3	WESTERN WOODEN BRACE POST	221	2.30	7.5

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>060013</td> </tr> <tr> <td>Ref Mon # 2</td> <td>020009</td> </tr> <tr> <td>Ref Mon # 3</td> <td>FOUNTAIN AZ</td> </tr> </table>	Ref Mon # 1	060013	Ref Mon # 2	020009	Ref Mon # 3	FOUNTAIN AZ	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	060013							
Ref Mon # 2	020009							
Ref Mon # 3	FOUNTAIN AZ							
Comments								

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 22 47.9079876

Longitude 91 58 38.6479632

Ellipsoid Height (M): 3.713

Geoid Height (M): -25.741

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE, GO EAST ON STATE HIGHWAY 8 FOR 2.34 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.10 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 8 AND 1.00 METER NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 54 mm CAP STAMPED "060015A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED BY 3 WIRE LEVEL ON THIS STATION BY CREW S5101.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060016	Date Monumented 9/19/2006	Monumented By AHTD	County Bradley	Route NA	Job Number: 001873,020462
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	500,772.5922	
Easting (M)	396,047.7980	
Elevation (M)*	54.507	
Northing (SFT)	1,642,951.4129	
Easting (SFT)	1,299,366.8173	
Elevation (SFT)*	178.828	

Convergence Angle	0	1	25.7761249
Scale Factor	0.999950377		
Elevation Adjust. Factor	0.9999914461		
Combined Adjust. Factor	0.9999418236		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Service pole with light	190	67.24	220.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 34 30.8460396

Longitude 92 2 33.2563020

Ellipsoid Height (M): 28.761

Geoid Height (M): -25.746

Location Description

To reach the station from the junction of highways 278 and 278B east of Warren go west on hwy-278 for 1.40 miles to county road 24 on the left, turn left on cr24 and go 1.30 miles to a private drive on the right, turn right through a gate and onto the property of Charles Goins. Continue ahead for 0.05 miles to the mark on the left near the end of a garden. 13.6 feet from the center of the gravel drive and 1.5 feet east of a witness post. The station mark is a 2 1/ inch cap stamped "060016 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface. NOTE: there is no azimuth mark for this station.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060017	Date Monumented 9/19/2006	Monumented By AHTD	County Bradley	Route NA	Job Number: 001873,020462
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	503,776.4971	
Easting (M)	397,416.5120	
Elevation (M)*	36.922	
Northing (SFT)	1,652,806.7242	
Easting (SFT)	1,303,857.3398	
Elevation (SFT)*	121.136	

Convergence Angle	0	0	56.0881409
Scale Factor	0.999946726		
Elevation Adjust. Factor	0.9999942057		
Combined Adjust. Factor	0.9999409320		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Manhole	15	4.21	13.8
MK # 2	SW corner of concrete sewer lift station	75	6.74	22.1
MK # 3	Fence corner	325	30.60	100.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS	
Ref Mon # 3 W 77, T 83, 220013, 220001A	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 36 8.3649528
Longitude	92 1 40.2127464
Ellipsoid Height (M):	11.194
Geoid Height (M):	-25.741

Location Description
<p>To reach the station from hwy-278 and 278B east of Warren go east on 278 for 0.20 miles to county road 44 on the right. Go right on CR44 and go 1.4 miles to a gravel road on the left. Turn left and go 0.10 miles to a gated road on the left at the Water treatment plant. Pass through the gate and go 0.20 miles to a road left, go left and follow the road around the ponds to the lift station and the station on the left. The station mark is a 2 1/2 inch cap stamped "060017 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface. Sewer plant manager is Travis Smith 870-820-2217 for access through the gate.</p>

AZ Mark Station	060017A
Geodetic Azimuth	164 56 28
Grid Azimuth	164 57 24

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060017A	Date Monumented 9/19/2006	Monumented By AHTD	County Bradley	Route NA	Job Number: 001873,020462
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	503,301.9312
Easting (M)	397,544.0560
Elevation (M)*	37.144
Northing (SFT)	1,651,249.7526
Easting (SFT)	1,304,275.7904
Elevation (SFT)*	121.863

Convergence Angle	0 0 53.3164671
Scale Factor	0.999947288
Elevation Adjust. Factor	0.9999941710
Combined Adjust. Factor	0.9999414593

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	251	25.45	83.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS	
Ref Mon # 3 W 77, T 83, 220013, 220001A	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 35 52.9621368
Longitude	92 1 35.2605936
Ellipsoid Height (M):	11.454
Geoid Height (M):	-25.740

Location Description
<p>To reach the station from hwy-278 and 278B east of Warren go east on 278 for 0.20 miles to county road 44 on the right. Go right on CR44 and go 1.4 miles to a gravel road on the left. Turn left and go 0.10 miles to a gated road on the left at the Water treatment plant. Pass through the gate and go 0.20 miles to a road left, go left along the top of the ponds for 0.15 miles to the station on the right at the SE corner of a pond. The station mark is a 2 1/2 inch cap stamped "060017A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface. Sewer plant manager is Travis Smith 870-820-2217 for access through the gate.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060018	Date Monumented 9/20/2006	Monumented By AHTD	County Bradley	Route 172	Job Number: 001873,020462
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	501,800.7811
Easting (M)	401,220.3630
Elevation (M)*	35.038
Northing (SFT)	1,646,324.7293
Easting (SFT)	1,316,337.1409
Elevation (SFT)*	114.955

Convergence Angle	0	0	26.4888642
Scale Factor	0.999949102		
Elevation Adjust. Factor	0.9999945014		
Combined Adjust. Factor	0.9999436037		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NW corner of bridge end	160	7.53	24.7
MK # 2	NE corner of bridge end	117	12.13	39.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS	
Ref Mon # 3 W 77, T 83, 220013, 220001A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060018A	Date Monumented 9/20/2006	Monumented By AHTD	County Bradley	Route 172	Job Number: 001873,020462
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	502,490.4812	
Easting (M)	401,216.2910	
Elevation (M)*	34.898	
Northing (SFT)	1,648,587.5204	
Easting (SFT)	1,316,323.7814	
Elevation (SFT)*	114.493	

Convergence Angle	0	0	26.4023953
Scale Factor	0.999948261		
Elevation Adjust. Factor	0.9999945235		
Combined Adjust. Factor	0.9999427847		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	Five inch Black Walnut tree	313	16.55	54.3		060018
MK # 2						179 40 08
MK # 3						179 39 42

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS	
Ref Mon # 3 W 77, T 83, 220013, 220001A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060019	Date Monumented 10/10/2006	Monumented By AHTD	County Bradley	Route 278	Job Number: 001873, 020462
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	504,306.4852	
Easting (M)	398,833.6920	
Elevation (M)*	38.105	
Northing (SFT)	1,654,545.5269	
Easting (SFT)	1,308,506.8712	
Elevation (SFT)*	125.017	

Convergence Angle	0	0	25.3222369
Scale Factor	0.999946105		
Elevation Adjust. Factor	0.9999940201		
Combined Adjust. Factor	0.9999401254		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NW bridge corner	83	2.96	9.7
MK # 2	West end of curb	234	2.13	7.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS	
Ref Mon # 3 W 77, T 83, 220013, 220001A	

Vertical Determined By: 3rd Order - 3 Wire Level	
Elevation Datum: NAVD 88	
Geoid Datum:	
Latitude	33 36 25.5768840
Longitude	92 0 45.2432700
Ellipsoid Height (M):	12.421
Geoid Height (M):	-25.735

Location Description
<p>To reach the station from the junction of highways 278 and 172 west of Wilmar go west on hwy-278 for 1.45 miles to the station on the right. 42.0 feet northwest of the center of hwy-278 and 1.5 feet southeast of a witness post. The station mark is a 2 1/2 inch cap stamped "060019 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060019A	Date Monumented 10/10/2006	Monumented By AHTD	County Bradley	Route 278	Job Number: 001873, 020462
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	504,364.8742	
Easting (M)	399,379.3360	
Elevation (M)*	38.008	
Northing (SFT)	1,654,737.0914	
Easting (SFT)	1,310,297.0382	
Elevation (SFT)*	124.699	

Convergence Angle	0	0	13.4755990
Scale Factor	0.999946037		
Elevation Adjust. Factor	0.9999940353		
Combined Adjust. Factor	0.9999400726		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	SE end of bridge corner		300		1.95	6.4
MK # 2	East end of curb		58		3.32	10.9
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS	
Ref Mon # 3 W 77, T 83, 220013, 220001A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060020	Date Monumented 4/26/2017	Monumented By AHTD	County BRADLEY	Route 160	Job Number: 070418
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	474,208.7219 0.0021
Easting (M)	388,224.0338 0.0021
Elevation (M)*	

Northing (SFT)	1,555,799.7818	
Easting (SFT)	1,273,698.3509	
Elevation (SFT)*		

Convergence Angle	0	4	14.8657342
Scale Factor	0.999992288		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
	Description	Azimuth	Distance
			Meters Feet
MK # 1	C/L HDWL	51	5.97 19.6
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	GPS DERIVED ELEV. BASED ON CONSTRAINTS ON 1ST ORDER NGS BM W 201, 2ND ORDER NGS BM T 83 & AHTD CORS SITE ARCM IN FINAL STATIC NETWORK ADJ.
Ref Mon # 2 ARMO	
Ref Mon # 3 LTEC, IULM	

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 8 WEST AND STATE HIGHWAY 160 WEST, IN JOHNSVILLE, GO WEST ON HIGHWAY 160 7.7 MILES TO THE MARK ON THE RIGHT, 17.6' NORTH OF THE C/L OF THE HIGHWAY AND SOUTH 42' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 060020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	060020A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060020A	Date Monumented 4/26/2017	Monumented By AHTD	County BRADLEY	Route 160	Job Number: 070418
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	474,100.7363 0.0021
Easting (M)	388,597.0131 0.0020
Elevation (M)*	
Northing (SFT)	1,555,445.4990
Easting (SFT)	1,274,922.0338
Elevation (SFT)*	

Convergence Angle	0	4	6.7906032
Scale Factor	0.999992493		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PP W/GUY	104	23.93	78.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	GPS DERIVED ELEV. BASED ON CONSTRAINTS ON 1ST ORDER NGS BM W 201, 2ND ORDER NGS BM T 83 & AHTD CORS SITE ARCM IN FINAL STATIC NETWORK ADJ.
Ref Mon # 2 ARMO	
Ref Mon # 3 LTEC, IULM	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	33 20 4.9103376
Longitude	92 7 20.9410572
Ellipsoid Height (M):	10.310 0.0044
Geoid Height (M):	-25.986 0.0044

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 8 WEST AND STATE HIGHWAY 160 WEST, IN JOHNSVILLE, GO WEST ON HIGHWAY 160 7.45 MILES TO THE MARK ON THE RIGHT, 23' SOUTH SOUTHWEST OF THE C/L OF THE HIGHWAY AND NORTH NORTHEAST 34' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 060020A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060021	Date Monumented 6/13/2018	Monumented By ARDOT	County BRADLEY	Route 8	Job Number: HWY 8 DRAINAGE STUDY
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	479,115.4266	0.0020			
Easting (M)	402,112.5859	0.0020			
Elevation (M)*					
Northing (SFT)	1,571,897.8621				
Easting (SFT)	1,319,264.3756				
Elevation (SFT)*					

Convergence Angle	0	0	45.7460026
Scale Factor	0.999983235		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
"TO REACH THE STATION MARK FROM THE JUNCTION OF SR-8 AND SR-160, WEST OF FOUNTAIN HILL, GO WEST ON SR-8 2 MILES TO THE STATION ON THE LEFT. 40' SOUTH OF THE C/L OF SR-8, 11.5' NORTH OF FENCE. THE MARK IS A STANDARD 2½" CAP STAMPED ""060021 2018"" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND."			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE W/GUY	95	41.75	137.0	060021A
MK # 2	FENCE COR W/BRACE	255	35.05	115.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARMO	
Ref Mon # 2 ARCM	
Ref Mon # 3 IULM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 060021A	Date Monumented 6/13/2018	Monumented By ARDOT	County BRADLEY	Route 8	Job Number: HWY 8 DRAINAGE STUDY
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	479,141.0478	0.0030			
Easting (M)	402,570.0106	0.0030			
Elevation (M)*					
Northing (SFT)	1,571,981.9210				
Easting (SFT)	1,320,765.1098				
Elevation (SFT)*					

Convergence Angle	0	0	55.6512409
Scale Factor	0.999983190		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/GUY	150	10.06	33.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARMO	
Ref Mon # 2 ARCM	
Ref Mon # 3 IULM	

Vertical Determined By:	Level - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12B
Latitude	33 22 48.7234884
Longitude	91 58 20.5678632
Ellipsoid Height (M):	4.903 0.0410
Geoid Height (M):	-25.830 0.0410

Location Description
<p>"TO REACH THE STATION MARK FROM THE JUNCTION OF SR-8 AND SR-160, WEST OF FOUNTAIN HILL, GO WEST ON SR-8 1.7 MILES TO THE STATION ON THE LEFT. 25' SOUTH OF THE C/L OF SR-8. THE MARK IS A STANDARD 2½" CAP STAMPED "060021A 2018" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND."</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070001	Date Monumented 1/22/2003	Monumented By AHTD	County CALHOUN	Route 205	Job Number: 070198
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	524,514.7221	
Easting (M)	348,596.7790	
Elevation (M)*		
Northing (SFT)	1,720,845.3841	
Easting (SFT)	1,143,687.9324	
Elevation (SFT)*		

Convergence Angle	0	18	38.4065161
Scale Factor	0.999927662		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 205 AND HIGHWAY 274, NORTH OF HAMPTON AND WEST OF FORDYCE, GO SOUTH ON HIGHWAY 205 0.20 MILES TO THE STATION ON THE RIGHT. SOUTH 15.50 METERS OF THE CENTER OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "070001 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE WITH GUY	110	7.40	24.3	AZ Mark Station 070001A
MK # 2	TELEPHONE RISER	102	20.40	66.9	Geodetic Azimuth 97 54 26
MK # 3	GUY	170	4.75	15.6	Grid Azimuth 98 13 05

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD LR1 (LROC) Ref Mon # 2 AHTD HOPE 1 Ref Mon # 3 AHTD MON 1	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070001A	Date Monumented 1/22/2003	Monumented By AHTD	County CALHOUN	Route 205	Job Number: 070198
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	524,425.0161	
Easting (M)	349,217.9180	
Elevation (M)*		
Northing (SFT)	1,720,551.0737	
Easting (SFT)	1,145,725.7860	
Elevation (SFT)*		

Convergence Angle	0	18	24.8818787
Scale Factor	0.999927720		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WATER VALVE	212	2.90	9.5	AZ Mark Station 070001
MK # 2	WATER METER	136	3.80	12.5	Geodetic Azimuth 277 54 40
MK # 3	COMBINATION POLE	245	14.60	47.9	Grid Azimuth 278 13 05

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD LR1 (LROC) Ref Mon # 2 AHTD HOPE 1 Ref Mon # 3 AHTD MON 1	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070002	Date Monumented 1/22/2003	Monumented By AHTD	County CALHOUN	Route 274	Job Number: 007969, 070435
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	505,232.8348 0.0030
Easting (M)	348,708.2169 0.0020
Elevation (M)*	

Northing (SFT)	1,657,584.7255	
Easting (SFT)	1,144,053.5416	
Elevation (SFT)*		

Convergence Angle	0	18	33.7167630
Scale Factor	0.999945194		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	33	36	51.1529184
Longitude	92	33	9.8801964
Ellipsoid Height:	38.781		
Grid Northing (Meters)	505,232.8381		
Grid Easting (Meters)	348,708.1870		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH WEST CORNER OF A CEMETERY FE	246	15.90	52.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD LR1 - AHTD MON1 Ref Mon # 2 AHTD HOPE 1 Ref Mon # 3 Vicksburg CORS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Level was established using 3-order techniques per PDR from tablet by Thompson Engr. OLD GEOID HT. WAS -26.020m AND WAS UPDATED 12-8-17 WHEN POINT WAS UPDATED TO 2011. PREVIOUS ELEV. WAS 59.6035m.</td> </tr> </table>	Comments	Level was established using 3-order techniques per PDR from tablet by Thompson Engr. OLD GEOID HT. WAS -26.020m AND WAS UPDATED 12-8-17 WHEN POINT WAS UPDATED TO 2011. PREVIOUS ELEV. WAS 59.6035m.
Comments			
Level was established using 3-order techniques per PDR from tablet by Thompson Engr. OLD GEOID HT. WAS -26.020m AND WAS UPDATED 12-8-17 WHEN POINT WAS UPDATED TO 2011. PREVIOUS ELEV. WAS 59.6035m.			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070002A	Date Monumented 1/22/2003	Monumented By AHTD	County CALHOUN	Route 274	Job Number: 007969, 070435
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	505,221.2543	0.0030			
Easting (M)	348,084.6121	0.0020			
Elevation (M)*					
Northing (SFT)	1,657,546.7318				
Easting (SFT)	1,142,007.5982				
Elevation (SFT)*					

Convergence Angle	0	18	47.2556738
Scale Factor	0.999945211		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	33	36	50.6670948
Longitude	92	33	34.0699968
Ellipsoid Height:	33.599		
Grid Northing (Meters)	505,221.2582		
Grid Easting (Meters)	348,084.5870		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LR1 - AHTD MON1	Level was established using 3-order techniques per PDR from tablet by Thompson Engr. OLD GEOID HT. WAS -26.023m AND WAS UPDATED 12-8-17 WHEN POINT WAS UPDATED TO 2011. OLD ELEV. WAS 64.7857m.
Ref Mon # 2 AHTD HOPE 1	
Ref Mon # 3 Vicksburg CORS	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	33 36 50.6669724
Longitude	92 33 34.0690212
Ellipsoid Height (M):	33.515 0.0060
Geoid Height (M):	-26.100 0.0060

Location Description
<p>TO REACH THE STATION FORM THE JUNCTION OF STATE HIGHWAY 274 AND HIGHWAY 203 SOUTH, NORTHWEST OF HAMPTON, GO WEST ON HIGHWAY 274 0.35 MILES TO THE STATION ON THE RIGHT. 10.0 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 11.20 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64 mm CAP STAMPED "070002A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070003	Date Monumented 7/30/2003	Monumented By AHTD	County CALHOUN	Route 278	Job Number: 070239,070373,070284,070285
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Zone Arkansas South	Zone Code 302	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 496,625.6462		Latitude 33 32 13.2967716
Easting (M) 358,285.1550		Longitude 92 26 56.8793688
Elevation (M)* 60.780		Ellipsoid Height (M): 34.539
		Geoid Height (M): -26.010

Northing (SFT) 1,629,345.9742		Location Description
Easting (SFT) 1,175,473.8794		<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 278 AND HIGHWAY 274, EAST OF HAMPTON, THE STATION IS LOCATED SOUTH OF THIS T INTERSECTION. SOUTH 16.3 METERS OF THE CENTERLINE OF HIGHWAY 278 AND NORTH 2.20 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "070003 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>
Elevation (SFT)* 199.408		
Convergence Angle 0 15 4.9523244		
Scale Factor 0.999955902		
Elevation Adjust. Factor 0.9999904618		
Combined Adjust. Factor 0.9999463642		

SUPERCEDED CONTROL				
Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE RISER	106	6.70	22.0	AZ Mark Station 070003A
MK # 2	COMBINATION POLE	98	8.70	28.5	Geodetic Azimuth 274 24 56
MK # 3					Grid Azimuth 274 40 01

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LROC	<p>Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.</p>
Ref Mon # 2 CSAL C.O.R.S.	
Ref Mon # 3 IULM C.O.R.S.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070003A	Date Monumented 7/30/2003	Monumented By AHTD	County CALHOUN	Route 278	Job Number: 070239,070373,070284,070285
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Zone Arkansas South	Zone Code 302	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 496,690.2632		Latitude 33 32 15.2803644
Easting (M) 357,493.6270		Longitude 92 27 27.5700132
Elevation (M)* 62.920		Ellipsoid Height (M): 36.679
		Geoid Height (M): -26.014

Northing (SFT) 1,629,557.9718		
Easting (SFT) 1,172,877.0079		
Elevation (SFT)* 206.432		

Convergence Angle 0 15 22.1295923		
Scale Factor 0.999955819		
Elevation Adjust. Factor 0.9999901258		
Combined Adjust. Factor 0.9999459453		

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE W/GUY	53	23.60	77.4
MK # 2				
MK # 3				

AZ Mark Station 070003	
Geodetic Azimuth 94 24 39	
Grid Azimuth 94 40 01	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LROC	Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.
Ref Mon # 2 CSAL C.O.R.S.	
Ref Mon # 3 IULM C.O.R.S.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070004	Date Monumented 10/20/2004	Monumented By AHTD	County CALHOUN	Route 167	Job Number: 070268,070373,070282
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	475,839.8322	
Easting (M)	350,711.5710	
Elevation (M)*	34.407	
Northing (SFT)	1,561,151.1828	
Easting (SFT)	1,150,626.2125	
Elevation (SFT)*	112.884	

Convergence Angle	0	17	46.9168116
Scale Factor	0.999989442		
Elevation Adjust. Factor	0.9999946005		
Combined Adjust. Factor	0.9999840425		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Northwest corner of bridge	141	2.70	8.9	
MK # 2	North end of concrete curb	061	5.20	17.1	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="CORS Hope"/> Ref Mon # 2 <input type="text" value="IULM"/> Ref Mon # 3 <input type="text" value="UAM AFRC SIS"/>	3-Wire Elevations were ran from NGS A-201 in Job # 070268 by S5104 in April 2005(elev. 113.0616'). Updated elevation derived from NGS 1st Order level run from X 198 & Y 198 and from NGS River Crossing in April 2012.

AZ Mark Station	700022
Geodetic Azimuth	214 37 02
Grid Azimuth	214 54 49

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070005	Date Monumented 10/20/2004	Monumented By AHTD	County CALHOUN	Route 163	Job Number: 070268,070373,070283
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	480,907.7951	
Easting (M)	354,287.6960	
Elevation (M)*	32.629	
Northing (SFT)	1,577,778.3244	
Easting (SFT)	1,162,358.8826	
Elevation (SFT)*	107.050	

Convergence Angle	0	16	30.0343834
Scale Factor	0.999980270		
Elevation Adjust. Factor	0.9999948795		
Combined Adjust. Factor	0.9999751496		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach the station from the north end of a bridge over the Ouchita river north of Calion go north on Hwy-167 for 4.20 miles to the station on the right. 11.10 meters southeast of the center of Hwy-167 and 11.40 meters northwest of a witness post. The station mark is a standard 64mm cap stamped "070005 2004" set on top of an iron rod 1.22 meters in length and driven flush with the ground.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	None				070005A	
MK # 2					032 54 36	
MK # 3					033 11 06	

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	CORS Hope	<p>3-Wire Elevations were ran from NGS A-201 in Job # 070268 by S5104 in April 2005(elev. 107.2423') . Updated elev.derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.</p>
Ref Mon # 2	IULM	
Ref Mon # 3	UAM AFRC SIS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070005A	Date Monumented 10/20/2004	Monumented By AHTD	County CALHOUN	Route 167	Job Number: 070268,070373,070283
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	481,486.7201	
Easting (M)	354,666.3170	
Elevation (M)*	33.064	
Northing (SFT)	1,579,677.6809	
Easting (SFT)	1,163,601.0750	
Elevation (SFT)*	108.479	

Convergence Angle	0	16	21.8940426
Scale Factor	0.999979263		
Elevation Adjust. Factor	0.9999948111		
Combined Adjust. Factor	0.9999740742		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fiber optic manhole	088	22.80	74.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CORS Hope Ref Mon # 2 IULM Ref Mon # 3 UAM AFRC SIS	3-Wire Elevations were ran from NGS A-201 in Job # 070268 by S5104 in April 2005 (elev. 108.6647'). Updated elev. derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

Location Description	
To reach the station from the north end of the bridge over the Ouchita river north of Calion go north on Hwy-167 for 4.60 miles to the station on the left. 14.0 meters from the center of the junction of Hwy-167 and Union county road 30, 7.30 meters northwest of the center of Hwy-167 and 5.40 meters southeast of a witness post. The station mark is a standard 64mm cap stamped "070005A 2004" set on top of an iron rod 1.22 meters long and driven flush with the ground.	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 24 1.3703868
Longitude	92 29 14.3512260
Ellipsoid Height (M):	11.116
Geoid Height (M):	-26.124

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070006	Date Monumented 9/20/2005	Monumented By AHTD	County Calhoun	Route Cr 27	Job Number: 001914,070373,070283,070284
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	486,680.5181	
Easting (M)	355,299.3650	
Elevation (M)*	34.838	
Northing (SFT)	1,596,717.6665	
Easting (SFT)	1,165,678.0000	
Elevation (SFT)*	114.296	

Convergence Angle	0	16	8.7112106
Scale Factor	0.999970619		
Elevation Adjust. Factor	0.9999945329		
Combined Adjust. Factor	0.9999651520		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	208	14.70	48.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124	Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

Vertical Determined By: 3rd Order - Digital Levels	
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 26 50.0510148
Longitude	92 28 50.7974448
Ellipsoid Height (M):	8.739
Geoid Height (M):	-26.086

Location Description
To reach the station from the Calhoun and Union county line on Hwy-167 north of Calion, go north on Hwy-167 for 7.75 miles to county road 27 on the left, turn left on CR 27 and go 0.35 miles to the station on the right. 29.2 feet north of CR27 and 1.65 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "070006 2005" on top of a 4 foot long by 5/8 inch rebar and is just below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070006A	Date Monumented 9/20/2005	Monumented By AHTD	County Calhoun	Route 167	Job Number: 001914,070373,070283,070284
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Zone Arkansas South	Zone Code 302	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 486,409.6582		Latitude 33 26 41.3306160
Easting (M) 355,769.8710		Longitude 92 28 32.5310988
Elevation (M)* 35.199		Ellipsoid Height (M): 9.106
		Geoid Height (M): -26.086

Northing (SFT) 1,595,829.0203		Location Description
Easting (SFT) 1,167,221.6518		To reach the station from the Calhoun and Union county line on Hwy-167 north of Calion, go north on Hwy-167 for 7.75 miles to the station on the left. 42.3 feet west of Hwy-167, 50.5 feet south of CR27 and 1.65 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "070006A 2005" on top of a 4 foot long by 5/8 inch rebar and is just below the surface.
Elevation (SFT)* 115.481		
Convergence Angle 0 15 58.4877069		
Scale Factor 0.999971050		
Elevation Adjust. Factor 0.9999944762		
Combined Adjust. Factor 0.9999655264		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone riser box	250	13.90	45.6
MK # 2	Wooden sign "Antioch Bap. Church"	273	13.70	44.9
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124	Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070007	Date Monumented 9/20/2005	Monumented By AHTD	County Calhoun	Route 167	Job Number: 001914,070373,070284
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	491,783.8921	
Easting (M)	356,168.7440	
Elevation (M)*	48.459	
Northing (SFT)	1,613,460.9860	
Easting (SFT)	1,168,530.2876	
Elevation (SFT)*	158.985	

Convergence Angle	0	15	50.3806681
Scale Factor	0.999962768		
Elevation Adjust. Factor	0.9999923953		
Combined Adjust. Factor	0.9999551636		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone riser	284	5.40	17.7
MK # 2	North end of 18 inch RCP	158	13.60	44.6
MK # 3	South end of 18 inch RCP	12	19.20	63.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124	Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

Vertical Determined By: 3rd Order - Digital Levels	
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 29 35.8309032
Longitude	92 28 18.0462432
Ellipsoid Height (M):	22.414
Geoid Height (M):	-26.046

Location Description
<p>To reach the station from the Calhoun and Union county line north of Calion on Hwy-167, go north on Hwy-167 for 11.3 miles to the station on the left. 57.6 feet northwest of the center of Hwy-167, 67.6 feet north of a gravel drive and 1.65 feet southeast of a witness post. The station mark is a 2 1/2 inch cap on top of a 4 foot by 5/8 inch rebar set just below the surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070007A	Date Monumented 9/20/2005	Monumented By AHTD	County Calhoun	Route 167	Job Number: 001914,070373,070284
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	491,222.8621
Easting (M)	356,181.9940
Elevation (M)*	47.145
Northing (SFT)	1,611,620.3401
Easting (SFT)	1,168,573.7586
Elevation (SFT)*	154.676

Convergence Angle	0 15 50.0373476
Scale Factor	0.999963599
Elevation Adjust. Factor	0.9999926014
Combined Adjust. Factor	0.9999562007

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Right of way marker	010	9.75	32.0
MK # 2	Power pole	0	19.40	63.6
MK # 3	24 inch plastic culvert	204	7.30	24.0

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARCM, IULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments
Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

Location Description	
To reach the station from the Calhoun and Union county north of Calion on Hwy-167 go north on Hwy-167 for 10.95 miles to the station on the right in front of the "Happy Home Assembly of God church". 60.4 feet southeast of the center of Hwy-167, 43 feet north of a concret drive and 1.65 feet northwest of a witness post. The station mark is a 2 1/2 inch cap stamped "070007A 2005" on top of a 4 foot long by 5/8 inch rebar and is just below the surface.	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 29 17.6226036
Longitude	92 28 17.4328320
Ellipsoid Height (M):	21.072
Geoid Height (M):	-26.050

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070008	Date Monumented 9/20/2005	Monumented By AHTD	County Calhoun	Route 167	Job Number: 001914,070373,070285,070286
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Zone Arkansas South	Zone Code 302	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 501,480.3021		Latitude 33 34 50.6030664
Easting (M) 356,435.4370		Longitude 92 28 9.4365804
Elevation (M)* 66.270		Ellipsoid Height (M): 40.262
		Geoid Height (M): -25.998

Northing (SFT) 1,645,273.2911		
Easting (SFT) 1,169,405.2629		
Elevation (SFT)* 217.421		

Convergence Angle 0 15 45.5619200		
Scale Factor 0.999949619		
Elevation Adjust. Factor 0.9999896002		
Combined Adjust. Factor 0.9999392197		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

To reach the station from the junction of Hwy-167 and Hwy-278 in Hampton go north on Hwy-167 for 3.20 miles to the station on the left. 50.3 feet west of the center of Hwy-167 and 1.65 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "070008 2005" set on top of a 4 foot long by 5/8 inch round rebar and is driven just below the surface.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Mail box	020	33.00	108.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124	Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070008A	Date Monumented 9/20/2005	Monumented By AHTD	County Calhoun	Route 167	Job Number: 001914,070373,070285,070286
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Zone Arkansas South	Zone Code 302	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 502,200.4642		Latitude 33 35 13.9853724
Easting (M) 356,481.3810		Longitude 92 28 7.7827980
Elevation (M)* 67.823		Ellipsoid Height (M): 41.834
		Geoid Height (M): -25.995

Northing (SFT) 1,647,636.0230		
Easting (SFT) 1,169,555.9975		
Elevation (SFT)* 222.516		

Convergence Angle 0 15 44.6363134		
Scale Factor 0.999948735		
Elevation Adjust. Factor 0.9999893565		
Combined Adjust. Factor 0.9999380920		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

To reach the station from the junction of Hwy-167 and 278 in Hampton go north on Hwy-167 for 3.65 miles to the station on the right. 38 feet east of the center of Hwy-167 and 5.90 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "070008A 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the surface.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CM	053	11.20	36.7
MK # 2	Center of a box culvert	046	2.80	9.2
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124	Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070009	Date Monumented 9/20/2005	Monumented By AHTD	County Calhoun	Route 167	Job Number: 001914,070285,070286
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	507,766.7961		
Easting (M)	356,593.8870		
Elevation (M)*	77.911		
Northing (SFT)	1,665,898.2302		
Easting (SFT)	1,169,925.1109		
Elevation (SFT)*	255.613		

Convergence Angle	0	15	42.7464728
Scale Factor	0.999942327		
Elevation Adjust. Factor	0.9999877734		
Combined Adjust. Factor	0.9999301011		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Right of way marker	271	1.80	5.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM, IULM,S 197,K 124 Ref Mon # 2 700014,270005 070003,0700 Ref Mon # 3 T 83 N 81 070005 LROC UAM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012. </td> </tr> </table>	Comments	Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.
Comments			
Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.			

Location Description
To reach the station from the junction of Hwys 167 and 278 in Hampton go north on Hwy-167 for 6.95 miles to the station on the left. 52.5 feet west of the center of Hwy-167 and 1.65 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "070009 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the surface.

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 38 14.6774184
Longitude	92 28 4.4062176
Ellipsoid Height (M):	51.935
Geoid Height (M):	-25.983

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070009A	Date Monumented 9/20/2005	Monumented By AHTD	County Calhoun	Route 167	Job Number: 001914,070285,070286
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	507,312.2831	
Easting (M)	356,580.3000	
Elevation (M)*	74.235	
Northing (SFT)	1,664,407.0488	
Easting (SFT)	1,169,880.5343	
Elevation (SFT)*	243.552	

Convergence Angle	0	15	42.9964376
Scale Factor	0.999942822		
Elevation Adjust. Factor	0.9999883503		
Combined Adjust. Factor	0.9999311729		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Concrete right of way marker	271	2.30	7.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124	Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 37 59.9225592
Longitude	92 28 4.8528300
Ellipsoid Height (M):	48.248
Geoid Height (M):	-25.983

Location Description
To reach the station from the junction of highways 167 and 278 in Hampton go north on Hwy-167 for 6.65 miles to the station on the left. 51.5 feet from the center of Hwy-167 and 1.65 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "070009A 2005" set on top of a 4 foot long by 5/8 inch rebar and is driven to just below the grounds surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070010	Date Monumented 9/20/2005	Monumented By AHTD	County Calhoun	Route 167	Job Number: 001914,070286
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	510,729.2552	
Easting (M)	356,664.7190	
Elevation (M)*	86.470	
Northing (SFT)	1,675,617.5648	
Easting (SFT)	1,170,157.4989	
Elevation (SFT)*	283.694	

Convergence Angle	0	15	41.5017707
Scale Factor	0.999939226		
Elevation Adjust. Factor	0.9999864302		
Combined Adjust. Factor	0.9999256570		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole with a guy wire	180	35.45	116.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM, IULM,S 197,K 124 Ref Mon # 2 700014,270005 070003,0700 Ref Mon # 3 T 83 N 81 070005 LROC UAM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012. </td> </tr> </table>	Comments	Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.
Comments			
Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.			

Location Description	
To reach the station from the junction of highways 167 and 278 in Hampton go north on Hwy-167 for 8.70 miles to the station on the left and the Mt. Pleasant Cemetery on the right. 59.4 feet west of the center of Hwy-167 and 1.65 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "070010 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the grounds surface.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070010A	Date Monumented 9/20/2005	Monumented By AHTD	County Calhoun	Route 167	Job Number: 001914,070286
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	511,129.8412	
Easting (M)	356,728.2850	
Elevation (M)*	75.000	
Northing (SFT)	1,676,931.8207	
Easting (SFT)	1,170,366.0484	
Elevation (SFT)*	246.063	

Convergence Angle	0	15	40.1604245
Scale Factor	0.999938823		
Elevation Adjust. Factor	0.9999882302		
Combined Adjust. Factor	0.9999270539		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Highway mile marker #9	304	20.15	66.1	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124	Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 40 3.8568936
Longitude	92 27 59.7857220
Ellipsoid Height (M):	49.030
Geoid Height (M):	-25.982

Location Description
<p>To reach the station from the junction of highways 167 and 278 in Hampton go north on Hwy-167 for 9.0 miles to the station on the right. 63 feet east of the center of Hwy-167 and 1.65 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "070010A 2005" set on top of a 4 foot long by 5/8 inch rebar and driven to just below the ground surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070011	Date Monumented 9/20/2005	Monumented By AHTD	County Calhoun	Route 167	Job Number: 001914,070286,070287
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	514,592.8041	
Easting (M)	356,841.4140	
Elevation (M)*	75.893	
Northing (SFT)	1,688,293.2248	
Easting (SFT)	1,170,737.2058	
Elevation (SFT)*	248.993	

Convergence Angle	0	15	38.0446849
Scale Factor	0.999935506		
Elevation Adjust. Factor	0.9999880900		
Combined Adjust. Factor	0.9999235968		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>To reach the station from the junction of highways 167 and 278 in Hampton go north on Hwy-167 for 11.15 miles to the station on the right. 60 feet east of the center of Hwy-167 and 1.65 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "070011 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the grounds surface.</p>				

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	Right of way marker	007	2.00	6.6	Geodetic Azimuth	070011A
MK # 2	Power service with guy	005	4.90	16.1		345 01 30
MK # 3	Water meter	086	4.65	15.3	Grid Azimuth	345 17 08

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124	<p>Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.</p>
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070011A	Date Monumented 9/20/2005	Monumented By AHTD	County Calhoun	Route 167	Job Number: 001914,070286,070287
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	515,262.7142	
Easting (M)	356,665.4880	
Elevation (M)*	76.668	
Northing (SFT)	1,690,491.0882	
Easting (SFT)	1,170,160.0219	
Elevation (SFT)*	251.535	

Convergence Angle	0	15	41.9348443
Scale Factor	0.999934899		
Elevation Adjust. Factor	0.9999879684		
Combined Adjust. Factor	0.9999228682		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach the station from the junction of highways 167 and 278 in Hampton go north 11.60 miles to the station on the right. 50.85 feet east of the center of Hwy-167 and 1.65 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "070011A 2005" on top of a 4 foot long by 5/8 inch rebar driven to just below the ground surface.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NR			
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM, IULM,S 197,K 124</p> <p>Ref Mon # 2 700014,270005 070003,0700</p> <p>Ref Mon # 3 T 83 N 81 070005 LROC UAM</p>	<p style="text-align: center;">Comments</p> <p>Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070012	Date Monumented 9/21/2005	Monumented By AHTD	County Calhoun	Route 167	Job Number: 001914,070286,070287
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	517,993.3881	
Easting (M)	356,055.7000	
Elevation (M)*	82.593	
Northing (SFT)	1,699,449.9741	
Easting (SFT)	1,168,159.4091	
Elevation (SFT)*	270.974	

Convergence Angle	0	15	55.4641743
Scale Factor	0.999932539		
Elevation Adjust. Factor	0.9999870386		
Combined Adjust. Factor	0.9999195785		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach the station from the junction of highways 167 and 278 in Hampton go north on Hwy-167 for 13.4 miles to the station on the left. 32.3 feet southwest of the center of Hwy-167, 20.3 feet south of a gravel drive and 18.0 feet northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "070012 2005" set on top of a 4 foot long by 5/8 inch rebar and is driven to just below the ground surface.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM, IULM,S 197,K 124</p> <p>Ref Mon # 2 700014,270005 070003,0700</p> <p>Ref Mon # 3 T 83 N 81 070005 LROC UAM</p>	<p style="text-align: center;">Comments</p> <p>Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070012A	Date Monumented 9/21/2005	Monumented By AHTD	County Calhoun	Route 167	Job Number: 001914,070286,070287
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	518,829.0291	
Easting (M)	355,975.1980	
Elevation (M)*	82.794	
Northing (SFT)	1,702,191.5730	
Easting (SFT)	1,167,895.2954	
Elevation (SFT)*	271.632	

Convergence Angle	0	15	57.2987990
Scale Factor	0.999931853		
Elevation Adjust. Factor	0.9999870071		
Combined Adjust. Factor	0.9999188610		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach the station from the junction of highways 167 and 278 in Hampton go north on Hwy-167 for 13.90 miles to the station on the left. 34.12 feet southwest of the center of Hwy-167 and 17.4 feet northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "070012A 2005" set on top of a 4 foot long by 5/8 inch rebar and is driven to just below the surface.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM, IULM,S 197,K 124</p> <p>Ref Mon # 2 700014,270005 070003,0700</p> <p>Ref Mon # 3 T 83 N 81 070005 LROC UAM</p>	<p style="text-align: center;">Comments</p> <p>Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.</p>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070013	Date Monumented 9/21/2005	Monumented By AHTD	County Calhoun	Route 79	Job Number: 001914,070287
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	524,683.1852	
Easting (M)	356,453.7650	
Elevation (M)*	111.417	
Northing (SFT)	1,721,398.0834	
Easting (SFT)	1,169,465.3940	
Elevation (SFT)*	365.540	

Convergence Angle	0	15	47.4774585
Scale Factor	0.999927523		
Elevation Adjust. Factor	0.9999825154		
Combined Adjust. Factor	0.9999100397		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	2 inch persimmon tree	299	19.30	63.3		
MK # 2	4 inch pine tree	358	26.85	88.1		
MK # 3	2 inch twin locust tree	018	15.80	51.8		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124 Ref Mon # 2 700014,270005 070003,0700 Ref Mon # 3 T 83 N 81 070005 LROC UAM	Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070013A	Date Monumented 9/21/2005	Monumented By AHTD	County Calhoun	Route 79	Job Number: 001914,070287
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	524,932.5082	
Easting (M)	356,871.0380	
Elevation (M)*	106.312	
Northing (SFT)	1,722,216.0707	
Easting (SFT)	1,170,834.3972	
Elevation (SFT)*	348.791	

Convergence Angle	0	15	38.4232538
Scale Factor	0.999927356		
Elevation Adjust. Factor	0.9999833165		
Combined Adjust. Factor	0.9999106737		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	None		
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM, IULM,S 197,K 124 Ref Mon # 2 700014,270005 070003,0700 Ref Mon # 3 T 83 N 81 070005 LROC UAM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012. </td> </tr> </table>	Comments	Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.
Comments			
Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.			

Location Description	
To reach the station from the junction of highways 205 and 79 west of Thornton go north on Hwy-79 for 1.90 miles to the station on the left. 36.75 feet northwest of the center of Hwy-79, 58.4 feet southeast of the center of the old road bed and 1.65 feet southeast of a witness post. The station mark is a 2 1/2 inch cap stamped "070013A 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the surface.	

AZ Mark Station	070013
Geodetic Azimuth	238 52 51
Grid Azimuth	239 08 29

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070014	Date Monumented 1/26/2010	Monumented By AHTD	County CALHOUN	Route 274	Job Number: 070BR3, 070345
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	506,619.4802	
Easting (M)	333,030.7480	
Elevation (M)*	41.257	
Northing (SFT)	1,662,134.0780	
Easting (SFT)	1,092,618.3791	
Elevation (SFT)*	135.358	

Convergence Angle	0	24	14.3295594
Scale Factor	0.999943738		
Elevation Adjust. Factor	0.9999935254		
Combined Adjust. Factor	0.9999372638		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CABLE MARKER	302	10.64	34.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR, CSAL	Digital Levels were ran by crew s5105 in March 2010 from NGS mark R 197 in job 070345.
Ref Mon # 2 S 197	
Ref Mon # 3 SHRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070014A	Date Monumented 1/26/2010	Monumented By AHTD	County CALHOUN	Route 274	Job Number: 070BR3, 070345
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	506,907.9492	
Easting (M)	333,599.9170	
Elevation (M)*	40.895	
Northing (SFT)	1,663,080.4967	
Easting (SFT)	1,094,485.7277	
Elevation (SFT)*	134.168	

Convergence Angle	0	24	2.0134691
Scale Factor	0.999943413		
Elevation Adjust. Factor	0.9999935824		
Combined Adjust. Factor	0.9999369957		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HIDRANT	73	24.45	80.2
MK # 2	SEWER MAN HOLE	323	23.23	76.2
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 S 197, ARLR	Digital Levels were ran by crew s5105 in March 2010 from NGS mark R 197 in job 070345.
Ref Mon # 2 CSAL	
Ref Mon # 3 SHRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070015	Date Monumented 3/28/2017	Monumented By AHTD	County CALHOUN	Route 172	Job Number: 070379
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	487,122.0904	0.0020			
Easting (M)	359,987.3587	0.0020			
Elevation (M)*					
Northing (SFT)	1,598,166.3916				
Easting (SFT)	1,181,058.5260				
Elevation (SFT)*					

Convergence Angle	0	14	27.1588027		
Scale Factor	0.999969882				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NORTH END OF 36" CMP	272		21.95	72.0
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	INCLUDED 1ST ORDER BM X 196 IN STATIC OBSERVATIONS AND CONSTRAINED ORTHOMETRIC HTS. ON CORS SITES ARLR & ARCM IN INITIAL NETWORK ADJUSTMENT AND MISSED X 196 PUBLISHED ELEV. BY +0.0032'. CONSTRAINED ARLR, ARCM & X 196 IN FINAL NETWORK ADJUSTMENT.
Ref Mon # 2 ARLR	
Ref Mon # 3 ARMO, LTEC	

Vertical Determined By: GPS - Unknown Quality	Elevation Datum: NAVD 88
Geoid Datum: Geoid 12B	
Latitude	33 27 5.0610492
Longitude	92 25 49.3536396
Ellipsoid Height (M):	14.354 0.0140
Geoid Height (M):	-26.155 0.0140

Location Description
TO REACH THE STATION MARK FROM STATE HIGHWAY 167 AND STATE HIGHWAY 172, SOUTHEAST OF HAMPTON, GO EAST ON HIGHWAY 172 FOR 2.5 MILES TO THE MARK ON THE LEFT, 24' NORTH OF THE CENTERLINE OF THE HIGHWAY, 32.1' SOUTHEAST OF THE CENTER OF A GATE AND 20' SOUTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2017 070015" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070015A	Date Monumented 3/28/2017	Monumented By AHTD	County CALHOUN	Route 172	Job Number: 070379
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	487,090.2957	0.0020			
Easting (M)	360,361.4807	0.0020			
Elevation (M)*					
Northing (SFT)	1,598,062.0785				
Easting (SFT)	1,182,285.9579				
Elevation (SFT)*					

Convergence Angle	0	14	19.0480102
Scale Factor	0.999969930		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	INCLUDED 1ST ORDER BM X 196 IN STATIC OBSERVATIONS AND CONSTRAINED ORTHOMETRIC HTS. ON CORS SITES ARLR & ARCM IN INITIAL NETWORK ADJUSTMENT AND MISSED X 196 PUBLISHED ELEV. BY +0.0032'. CONSTRAINED ARLR, ARCM & X 196 IN FINAL NETWORK ADJUSTMENT.
Ref Mon # 2 ARLR	
Ref Mon # 3 ARMO, LTEC	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12B
Latitude	33 27 4.0798476
Longitude	92 25 34.8620772
Ellipsoid Height (M):	12.844 0.0140
Geoid Height (M):	-26.154 0.0140

Location Description
<p>TO REACH THE STATION MARK FROM STATE HIGHWAY 167 AND STATE HIGHWAY 172, SOUTHEAST OF HAMPTON, GO EAST ON HIGHWAY 172 FOR 2.75 MILES TO THE MARK ON THE LEFT, 24.4' NORTH OF THE CENTERLINE OF THE HIGHWAY, 121' EAST OF THE C/L OF A DRIVEWAY AND 20' SOUTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2017 070015A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070016	Date Monumented 11/16/2017	Monumented By AHTD	County CALHOUN	Route CR 90	Job Number: 070435
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	504,709.8375	0.0030			
Easting (M)	354,710.2294	0.0020			
Elevation (M)*	66.762				
Northing (SFT)	1,655,868.8585				
Easting (SFT)	1,163,745.1443				
Elevation (SFT)*	219.034				

Convergence Angle	0	16	23.3408943
Scale Factor	0.999945762		
Elevation Adjust. Factor	0.9999895230		
Combined Adjust. Factor	0.9999352856		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER CONCRETE SLAB	321	7.01	23.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	ELEV. BASED ON DIGITAL LEVELS FROM TBM #914 FROM JOB #070286 BY S5112 IN NOV. 2017 FOR JOB #070435. CREW ALSO RAN THROUGH T-POINT 34 FROM JOB #070285 AND T-POINTS 35 & 36 FROM JOB #070286 TO VERIFY TBM #914 WAS STILL GOOD. THERE IS NO ELEV. DIFFERENCE B/C LEVELED ELEV. WAS USED AS CONSTRAINT IN STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARLR	
Ref Mon # 3 ARMO	

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND 274, NORTH OF HAMPTON, GO WEST ON HIGHWAY 274 1.1 MILES TO COUNTY ROAD 90 AND TURN LEFT (SOUTH) AND GO 0.15 MILES TO THE MARK ON THE RIGHT, WEST 12' OF THE C/L OF THE ROAD AND WEST 28.6' OF A WITNESS POST. THE MARK IS A STANDARD 2" CAP ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

Vertical Determined By:	None
Elevation Datum:	
Geoid Datum:	GEOID12B
Latitude	33 36 35.1674352
Longitude	92 29 16.9363176
Ellipsoid Height (M):	40.686
Geoid Height (M):	-26.076

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070016A	Date Monumented 11/16/2017	Monumented By AHTD	County CALHOUN	Route CR 90	Job Number: 070435
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	505,075.4302 0.0030
Easting (M)	354,716.3666 0.0020
Elevation (M)*	68.949
Northing (SFT)	1,657,068.3072
Easting (SFT)	1,163,765.2794
Elevation (SFT)*	226.209

Convergence Angle	0 16 23.2454834
Scale Factor	0.999945340
Elevation Adjust. Factor	0.9999891798
Combined Adjust. Factor	0.9999345204

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	None
Elevation Datum:	
Geoid Datum:	GEOID12B
Latitude	33 36 47.0350044
Longitude	92 29 16.7658468
Ellipsoid Height (M):	42.874
Geoid Height (M):	-26.075

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND 274, NORTH OF HAMPTON, GO WEST ON HIGHWAY 274 1.1 MILES TO COUNTY ROAD 90 AND TURN RIGHT (NORTH) AND GO 0.05 MILES TO THE MARK ON THE RIGHT, EAST 10.9' OF THE C/L OF THE ROAD AND WEST 9.3' OF A WITNESS POST. THE MARK IS A STANDARD 2" CAP ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	9	18.44	60.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARMO</td> </tr> </table>	Ref Mon # 1	ARCM	Ref Mon # 2	ARLR	Ref Mon # 3	ARMO	Comments <p>ELEV. BASED ON DIGITAL LEVELS FROM TBM #914 FROM JOB #070286 BY S5112 IN NOV. 2017 FOR JOB #070435. CREW ALSO RAN THROUGH T-POINT 34 FROM JOB #070285 AND T-POINTS 35 & 36 FROM JOB #070286 TO VERIFY TBM #914 WAS STILL GOOD. THERE IS NO ELEV. DIFFERENCE B/C LEVELED ELEV. WAS USED AS CONSTRAINT IN STATIC NETWORK ADJUSTMENT.</p>
Ref Mon # 1	ARCM						
Ref Mon # 2	ARLR						
Ref Mon # 3	ARMO						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070017	Date Monumented 11/27/2018	Monumented By AHTD	County CALHOUN	Route 203	Job Number: 070510
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	509,181.6881	0.0020			
Easting (M)	335,736.5121	0.0020			
Elevation (M)*					
Northing (SFT)	1,670,540.2550				
Easting (SFT)	1,101,495.5401				
Elevation (SFT)*					

Convergence Angle	0	23	15.9485604
Scale Factor	0.999940943		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF SR-205 AND SR-203 NE OF E CAMDEN, GO S ON SR-203 0.5 MILES TO STATION ON RIGHT. 31.5' S OF THE C/L SR-203. 45' N OF A WITNESS POST. THE MARK IS A STANDARD 2½" CAP STAMPED "070017 2018" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station 070017A
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARHP Ref Mon # 3 ARMO, ARGS	STATIC GPS DERIVED ELEVATION BASED ON SIMULTANEOUS OBSERVATIONS & ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARCM, ARHP & ARMO AND ON 1ST ORDER NGS BM's S 197 & MOLLETTE IN FINAL STATIC NETWORK ADJUSTMENT.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 070017A	Date Monumented 11/27/2018	Monumented By AHTD	County CALHOUN	Route 203	Job Number: 070510
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	509,337.7373 0.0020
Easting (M)	336,212.2627 0.0020
Elevation (M)*	

Northing (SFT)	1,671,052.2265	
Easting (SFT)	1,103,056.3985	
Elevation (SFT)*		

Convergence Angle	0	23	5.6372620
Scale Factor	0.999940776		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-205 AND SR-203 NE OF E CAMDEN, GO S ON SR-203 0.8 MILES TO STATION ON RIGHT. 26.0' S OF THE C/L SR-203. 61' N OF A WITNESS POST. THE MARK IS A STANDARD 2½" CAP STAMPED "070017A 2018" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PP	301	18.00	59.1
MK # 2				
MK # 3				

AZ Mark Station	070017
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	STATIC GPS DERIVED ELEVATION BASED ON SIMULTANEOUS OBSERVATIONS & ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARCM, ARHP & ARMO AND ON 1ST ORDER NGS BM's S 197 & MOLLETTE IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARHP	
Ref Mon # 3 ARMO, ARGS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080001	Date Monumented 8/27/1990	Monumented By AHTD	County CARROLL	Route 221	Job Number: 9647
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	219,989.7941	
Easting (M)	248,046.4420	
Elevation (M)*		
Northing (SFT)	721,749.8495	
Easting (SFT)	813,799.0351	
Elevation (SFT)*		

Convergence Angle	0	59	4.2376844
Scale Factor	1.000014830		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NONE	0			0.00	0.0
MK # 2	NONE	0			0.00	0.0
MK # 3	NONE	0			0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 PENSION Ref Mon # 2 NONE Ref Mon # 3 NONE	Old point number 90080001

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080002	Date Monumented 8/27/1990	Monumented By AHTD	County CARROLL	Route 221	Job Number: 9647
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	220,184.4801	
Easting (M)	247,940.6040	
Elevation (M)*		
Northing (SFT)	722,388.5818	
Easting (SFT)	813,451.7983	
Elevation (SFT)*		

Convergence Angle	0	59	6.7838895
Scale Factor	1.000015212		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NONE	0	0.00	0.0	
MK # 2	NONE	0	0.00	0.0	
MK # 3	NONE	0	0.00	0.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="PENSION"/> Ref Mon # 2 <input type="text" value="NONE"/> Ref Mon # 3 <input type="text" value="NONE"/>	<input type="text" value="Old point number 90080002"/>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080003	Date Monumented 8/27/1990	Monumented By AHTD	County CARROLL	Route 221	Job Number: 9647
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	220,811.7471	
Easting (M)	249,728.4930	
Elevation (M)*		
Northing (SFT)	724,446.5403	
Easting (SFT)	819,317.5641	
Elevation (SFT)*		

Convergence Angle	0	58	25.3380932
Scale Factor	1.000016521		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NONE	0	0.00	0.0	
MK # 2	NONE	0	0.00	0.0	
MK # 3	NONE	0	0.00	0.0	

Area Reference Monuments (used for Processing)	
Ref Mon # 1	PENSION
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments
Old point number 90080003

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080004	Date Monumented 8/27/1990	Monumented By AHTD	County CARROLL	Route 221	Job Number: 9647
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	220,944.3311	
Easting (M)	249,397.5480	
Elevation (M)*		
Northing (SFT)	724,881.5263	
Easting (SFT)	818,231.7887	
Elevation (SFT)*		

Convergence Angle	0	58	33.1091272
Scale Factor	1.000016775		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NONE	0			0.00	0.0
MK # 2	NONE	0			0.00	0.0
MK # 3	NONE	0			0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 PENSION Ref Mon # 2 NONE Ref Mon # 3 NONE	Old point number 90080004

Location Description FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO ALONG HWY. 221 1.63 MILES TO A FIELD ROAD ON THE LEFT ON HUGH LENDKE'S PROPERTY, THEN NORTHEAST ALONG A FIELD ROAD 1710 FEET, THEN EASTERLY 9 FEET TO THE STATION.	
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080005	Date Monumented 8/27/1990	Monumented By AHTD	County CARROLL	Route 221	Job Number: 9647
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	221,295.5980	
Easting (M)	251,247.6700	
Elevation (M)*		
Northing (SFT)	726,033.9744	
Easting (SFT)	824,301.7307	
Elevation (SFT)*		

Convergence Angle	0	57	50.0972937
Scale Factor	1.000017542		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN 12" WHITE OAK	270	27.43	90.0	
MK # 2	NBC IN 14" WHITE OAK	180	20.12	66.0	
MK # 3	NONE	0	0.00	0.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 PENSION	Old point number 90080005
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080006	Date Monumented 8/27/1990	Monumented By AHTD	County CARROLL	Route 221	Job Number: 9647
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 221,392.9881		Geoid Datum:
Easting (M) 251,145.2880		Latitude 36 19 3.1425996
Elevation (M)* 		Longitude 93 39 27.5694444
Northing (SFT) 726,353.4951		Ellipsoid Height (M):
Easting (SFT) 823,965.8324		Geoid Height (M): -28.810
Elevation (SFT)* 		

Convergence Angle 0 57 52.5234562	Scale Factor 1.000017735
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO ALONG HWY. 221 2.71 MILES TO A FIELD ROAD ON THE RIGHT, THEN SOUTHERNLY 114 FEET TO STATION.				

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE	0	0.00	0.0	AZ Mark Station 90080005
MK # 2	NONE	0	0.00	0.0	Geodetic Azimuth 132 36 13
MK # 3	NONE	0	0.00	0.0	Grid Azimuth 133 34 06

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 PENSION	Old point number 90080006
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080007	Date Monumented 8/27/1990	Monumented By AHTD	County CARROLL	Route 221	Job Number: 9647
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 223,893.6540		Geoid Datum:
Easting (M) 253,441.3710		Latitude 36 20 25.5023052
Elevation (M)* 		Longitude 93 37 57.1987668
Northing (SFT) 734,557.7632		Ellipsoid Height (M):
Easting (SFT) 831,498.8980		Geoid Height (M): -28.852
Elevation (SFT)* 		

Convergence Angle 0 56 59.9368377	Location Description FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO ALONG HWY. 221 5.42 MILES TO A FIELD ROAD ON THE RIGHT, THEN 663 FEET ALONG THE NORTH SIDE OF THE FIELD, THEN SOUTHWESTERLY 36 FEET TO THE STATION.
Scale Factor 1.000022927	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL	
Horizontal Datum 	
Latitude 	
Longitude 	
Ellipsoid Height: 	
Grid Northing (Meters) 	
Grid Easting (Meters) 	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE	0	0.00	0.0	AZ Mark Station 90080008
MK # 2	NONE	0	0.00	0.0	Geodetic Azimuth 131 04 50
MK # 3	NONE	0	0.00	0.0	Grid Azimuth 132 01 50

Area Reference Monuments (used for Processing) Ref Mon # 1 PENSION Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments Old point number 90080007
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080008	Date Monumented 8/27/1990	Monumented By AHTD	County CARROLL	Route 221	Job Number: 9647
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	223,819.6421	
Easting (M)	253,523.4820	
Elevation (M)*		
Northing (SFT)	734,314.9425	
Easting (SFT)	831,768.2905	
Elevation (SFT)*		

Convergence Angle	0	56	57.9925170
Scale Factor	1.000022776		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NONE	0	0.00	0.0		
MK # 2	NONE	0	0.00	0.0		
MK # 3	NONE	0	0.00	0.0		

Area Reference Monuments (used for Processing)	
Ref Mon # 1	PENSION
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments
Old point number 90080008

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080009	Date Monumented 8/27/1990	Monumented By AHTD	County CARROLL	Route 221	Job Number: 9647
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	224,970.5290	
Easting (M)	256,857.3570	
Elevation (M)*		
Northing (SFT)	738,090.8106	
Easting (SFT)	842,706.1788	
Elevation (SFT)*		

Convergence Angle	0	55	40.6460601
Scale Factor	1.000025295		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NONE	0	0.00	0.0	
MK # 2	NONE	0	0.00	0.0	
MK # 3	NONE	0	0.00	0.0	

Area Reference Monuments (used for Processing) Ref Mon # 1 PENSION Ref Mon # 2 NONE Ref Mon # 3 NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Old point number 90080009</td> </tr> </table>	Comments	Old point number 90080009
Comments			
Old point number 90080009			

Location Description
FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO ALONG HWY. 221 8.33 MILES TO THE DON DOSS RESIDENCE, THEN NORTH ON A FIELD ROAD NEXT TO THE HOUSE TO THE FIRST NORTH-SOUTH FENCE GATE, THEN NORTH ALONG A FENCE 165 FEET TO THE STATION.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080010	Date Monumented 8/27/1990	Monumented By AHTD	County CARROLL	Route 221	Job Number: 9647
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 224,896.2191		Geoid Datum:
Easting (M) 257,037.5930		Latitude 36 20 59.9336016
Elevation (M)* 		Longitude 93 35 33.6611436
Northing (SFT) 737,847.0122		Ellipsoid Height (M):
Easting (SFT) 843,297.5030		Geoid Height (M): -28.882
Elevation (SFT)* 		

Convergence Angle 0 55 36.4124199	Location Description FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO ALONG HWY. 221 8.33 MILES TO THE DON DOSS RESIDENCE, THEN NORTH ON A FIELD ROAD NEXT TO THE HOUSE TO THE SECOND NORTH-SOUTH FENCE GATE, THEN NORTH ALONG A FENCE 72 FEET TO THE STATION.
Scale Factor 1.000025145	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL	
Horizontal Datum 	
Latitude 	
Longitude 	
Ellipsoid Height: 	
Grid Northing (Meters) 	
Grid Easting (Meters) 	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE	0	0.00	0.0	AZ Mark Station 90080009
MK # 2	NONE	0	0.00	0.0	Geodetic Azimuth 291 28 46
MK # 3	NONE	0	0.00	0.0	Grid Azimuth 292 24 22

Area Reference Monuments (used for Processing) Ref Mon # 1 PENSION Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments Old point number 90080010
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080011	Date Monumented 9/13/1990	Monumented By AHTD	County CARROLL	Route 103	Job Number: R90017
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	199,528.5260	
Easting (M)	273,311.5720	
Elevation (M)*		
Northing (SFT)	654,619.8391	
Easting (SFT)	896,689.7158	
Elevation (SFT)*		

Convergence Angle	0	49	8.2091369
Scale Factor	0.999980157		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NONE		0	0.00	0.0
MK # 2	NONE		0	0.00	0.0
MK # 3	NONE		0	0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 NONE Ref Mon # 3 NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> Old point number 90080011 NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT. </td> </tr> </table>	Comments	Old point number 90080011 NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.
Comments			
Old point number 90080011 NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.			

Location Description
THE STATION IS 200 FEET NORTH OF THE CARROLL AND NEWTON COUNTY LINE ON THE LEFT SIDE OF HWY. 103, 100 FEET WEST OF A POWER LINE IN A CLEARED PASTURE, 250 FEET WEST OF THE CENTERLINE OF HWY 103 AND 3.75 FEET EAST OF WITNESS POST.

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 7 25.0655592
Longitude	93 24 26.5295664
Ellipsoid Height (M):	
Geoid Height (M):	-28.707

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080012	Date Monumented 9/13/1990	Monumented By AHTD	County CARROLL	Route 103	Job Number: R90017
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	199,754.3829	
Easting (M)	273,440.8310	
Elevation (M)*		
Northing (SFT)	655,360.8379	
Easting (SFT)	897,113.7930	
Elevation (SFT)*		

Convergence Angle	0	49	5.2765601
Scale Factor	0.999980494		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 10" BLACK GUM	10	19.35	63.5
MK # 2	NBC IN 26" WALNUT	133	25.24	82.8
MK # 3	NBC IN POWER POLE	180	15.51	50.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BURLINGTON RESET	Old point number 90080012 NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

Location Description	
<p>FROM THE CARROLL AND NEWTON COUNTY LINE, GO NORTH 0.15 MILES ALONG HWY. 103 TO THE STATION ON THE LEFT. THE STATION IS 110 FEET LEFT OF THE CENTERLINE OF HWY. 103, 60 FEET NORTH OF A CROSS FENCE AND 3.82 FEET EAST OF WITNESS POST.</p>	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 7 32.4525108
Longitude	93 24 21.4899012
Ellipsoid Height (M):	
Geoid Height (M):	-28.710

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080013	Date Monumented 9/17/1990	Monumented By AHTD	County CARROLL	Route 103	Job Number: R90017
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	202,577.5120	
Easting (M)	272,172.8850	
Elevation (M)*		
Northing (SFT)	664,623.0540	
Easting (SFT)	892,953.8735	
Elevation (SFT)*		

Convergence Angle	0	49	35.7278105
Scale Factor	0.999984757		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN 18" WALNUT	219	27.07	88.8		
MK # 2	NONE	0	0.00	0.0		
MK # 3	NONE	0	0.00	0.0		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BURLINGTON RESET	Old point number 90080013 NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080014	Date Monumented 9/17/1990	Monumented By AHTD	County CARROLL	Route 103	Job Number: R90017
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Zone	Zone Code	Vertical Determined By:
Arkansas North	301	NONE
Horizontal Datum	NAD 83 (1986)	
Northing (M)	202,920.2800	Elevation Datum:
Easting (M)	272,247.3280	NONE
Elevation (M)*		Geoid Datum:
Northing (SFT)	665,747.6186	Latitude
Easting (SFT)	893,198.1086	36 9 14.6013696
Elevation (SFT)*		Longitude
		93 25 11.0406792
		Ellipsoid Height (M):
		Geoid Height (M):
		-28.727

Convergence Angle	0	49	34.1101146
Scale Factor	0.999985293		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TOP OF FENCE POST	308	29.11	95.5
MK # 2	NBC IN TOP OF FENCE POST	340	23.73	77.9
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Old point number 90080014 NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080015	Date Monumented 9/18/1990	Monumented By AHTD	County CARROLL	Route 103	Job Number: 90219,R90104,R90017,09063
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	206,138.6940 0.0003
Easting (M)	273,724.8983 0.0003
Elevation (M)*	401.695
Northing (SFT)	676,306.6986
Easting (SFT)	898,045.7705
Elevation (SFT)*	1,317.894

Convergence Angle	0 49 0.7848044
Scale Factor	0.999990486
Elevation Adjust. Factor	0.9999369649
Combined Adjust. Factor	0.9999274515

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	36 10	59.6961048	
Longitude	93 24	13.7704284	
Ellipsoid Height:	373.744		
Grid Northing (Meters)	206,138.7020		
Grid Easting (Meters)	273,724.9070		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH IN GUARD RAIL POST	306	10.97	36.0
MK # 2	NORTH END OF CMP	201	28.40	93.2
MK # 3	TELEPHONE BOX	175	39.30	128.9

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHR Ref Mon # 2 ARFY Ref Mon # 3 AROZ	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS RAN BY CREW S5101 IN MAY 2023 FROM NGS BM 1335.</td> </tr> </table>	Comments	DIGITAL LEVELS RAN BY CREW S5101 IN MAY 2023 FROM NGS BM 1335.
Comments			
DIGITAL LEVELS RAN BY CREW S5101 IN MAY 2023 FROM NGS BM 1335.			

Location Description	
O REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 103 SOUTH, LOCATED ABOUT 0.42 KM (0.26 MI) NORTH OF OSAGE, GO SOUTH ON STATE HIGHY 103 FOR 0.42 KM (0.26 MI) TO THE OSAGE BAPTIST CHURCH AND THE STATION ON THE LEFT. UPDATED COORDS WITH JOB 090639 TO 2011	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080016	Date Monumented 9/18/1990	Monumented By AHTD	County CARROLL	Route 103	Job Number: R90104,R90017,090639
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	206,512.1537	0.0003			
Easting (M)	273,729.9396	0.0003			
Elevation (M)*	399.762				
Northing (SFT)	677,531.9576				
Easting (SFT)	898,062.3102				
Elevation (SFT)*	1,311.552				

Convergence Angle	0	49	0.7914090
Scale Factor	0.999991102		
Elevation Adjust. Factor	0.9999372682		
Combined Adjust. Factor	0.9999283708		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude	36	11	11.8267080
Longitude	93	24	13.7790576
Ellipsoid Height:	370.992		
Grid Northing (Meters)	206,512.5640		
Grid Easting (Meters)	273,730.0220		

Location Description				
<p>THE STATION IS LOCATED AT THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 103 SOUTH, LOCATED ABOUT 0.42 KM (0.26 MI) NORTH OF OSAGE. THE STATION IS LOCATED 46.34 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 412 AND 8.735 METERS EAST OF THE CENTER OF STATE HIGHWAY 103. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "90080016" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF THE CENTER OF 3 0.60 METE	359	36.07	118.3
MK # 2	WEST END OF THE CENTER OF 3 0.60 METE	332	42.96	141.0
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARHR</p> <p>Ref Mon # 2 ARFY</p> <p>Ref Mon # 3 AROZ</p>	<p style="text-align: center;">Comments</p> <p>Old point number 90080016. 3wire elevations were ran from NGS 1335 under Job # R90104 by S5103 UPDATED MAY 2023 DURING JOB 090639 DIGITAL LEVELS FROM NGS 1335</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080017	Date Monumented 4/22/1997	Monumented By AHTD	County CARROLL	Route 412	Job Number: R90104
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 214,796.7150		Latitude 36 15 43.9006644
Easting (M) 281,154.9640		Longitude 93 19 21.0961236
Elevation (M)* 360.613		Ellipsoid Height (M): 331.703
		Geoid Height (M): -28.910

Northing (SFT) 704,712.2225		
Easting (SFT) 922,422.5777		
Elevation (SFT)* 1,183.111		

Convergence Angle 0 46 10.4776828		
Scale Factor 1.000005837		
Elevation Adjust. Factor 0.9999434113		
Combined Adjust. Factor 0.9999492479		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 WEST AND U.S. HIGHWAY 62, LOCATED IN ALPENA, GO SOUTHERLY ON U.S. HIGHWAY 412 WEST FOR 4.43 KM (2.75 MI) TO THE JUNCTION OF COUNTY ROAD 20 AND THE STATION ON THE RIGHT. THE STATION IS 23.50 METERS WEST OF THE CENTER OF COUNTY ROAD 20, 20.60 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD, 12.70 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 412 AND 0.60 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080017 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WOODEN FENCE POST	24	3.20	10.5	AZ Mark Station 080017A
MK # 2	EAST POST OF METAL LINE FENCE BRACE	225	12.50	41.0	Geodetic Azimuth 223 40 23.62404
MK # 3	WOODEN CORNER POST	15	16.88	55.4	Grid Azimuth 224 26 34.03935

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 HUNTSVILLE</p> <p>Ref Mon # 2 BURLINGTON RESET</p> <p>Ref Mon # 3 MARBLE</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080017A	Date Monumented 4/22/1997	Monumented By AHTD	County CARROLL	Route 412	Job Number: R90104
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	214,460.1840	
Easting (M)	280,824.9150	
Elevation (M)*	370.086	
Northing (SFT)	703,608.1203	
Easting (SFT)	921,339.7420	
Elevation (SFT)*	1,214.190	

Convergence Angle	0	46	18.0650961
Scale Factor	1.000005203		
Elevation Adjust. Factor	0.9999419248		
Combined Adjust. Factor	0.9999471275		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	198	34.48	113.1
MK # 2	POWER POLE	9	36.37	119.3
MK # 3	1.016 METER WHITE OAK	206	28.52	93.6

Area Reference Monuments (used for Processing) Ref Mon # 1 HUNTSVILLE Ref Mon # 2 BURLINGTON RESET Ref Mon # 3 MARBLE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">AZ Mark Station</th> <td style="text-align: center;">080017</td> </tr> <tr> <th style="text-align: center;">Geodetic Azimuth</th> <td style="text-align: center;">43 40 15.91197</td> </tr> <tr> <th style="text-align: center;">Grid Azimuth</th> <td style="text-align: center;">44 26 34.03935</td> </tr> </table> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>	AZ Mark Station	080017	Geodetic Azimuth	43 40 15.91197	Grid Azimuth	44 26 34.03935
AZ Mark Station	080017						
Geodetic Azimuth	43 40 15.91197						
Grid Azimuth	44 26 34.03935						

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 15 32.8396212
Longitude	93 19 34.1351760
Ellipsoid Height (M):	341.182
Geoid Height (M):	-28.904

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 WEST AND U.S. HIGHWAY 62, LOCATED IN ALPENA, GO SOUTHERLY ON U.S. HIGHWAY 412 FOR 4.91 KM (3.05 MI) TO THE STATION ON THE RIGHT. 11.8 METERS NORTHWEST OF THE CENTER OF U.S. 412 AND 0.37 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080017A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080018	Date Monumented 	Monumented By USC&GS	County CARROLL	Route 21	Job Number: R90104,090101
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum: 		
Northing (M) 200,658.0819		Latitude 36 7 55.4054808
Easting (M) 260,378.8200		Longitude 93 33 4.3668000
Elevation (M)* 435.871		Ellipsoid Height (M): 409.036
		Geoid Height (M): -28.625

Northing (SFT) 658,325.7237	Easting (SFT) 854,259.5120	Location Description TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 21 SOUTH, LOCATED ABOUT 3.22 KM (2.00 MI) EAST OF MARBLE, GO SOUTH ON STATE HIGHWAY 21 FOR 0.40 KM (0.25 MI) TO THE STATION ON THE RIGHT. THE STATION IS 25.00 METERS NORTH OF THE CENTER OF A PASTURE ENTRANCE, 14.96 METER WEST OF THE CENTER OF STATE HIGHWAY 21, 1.40 METERS SOUTHEAST OF A NGS WITNESS POST AND 0.75 METERS EAST OF A WITNESS POST. THE STATION IS A NGS DISK SET IN TOP A CONCRETE POST STAMPED "MARBLE 1971" SET FLUSH WITH THE GROUND.
Elevation (SFT)* 1,430.020		

Convergence Angle 0 54 9.5381716	Scale Factor 0.999981551	
Elevation Adjust. Factor 0.9999316023	Combined Adjust. Factor 0.9999131546	

SUPERCEDED CONTROL	
Horizontal Datum 	
Latitude 	
Longitude 	
Ellipsoid Height: 	
Grid Northing (Meters) 	
Grid Easting (Meters) 	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	70	31.07	101.9
MK # 2	WOODEN BRACE POST FOR GATE	185	20.61	67.6
MK # 3	CHERRY TREE	0	23.46	77.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HUNTSVILLE	This is the NGS Marble Triangulation Station. 3 wire levels were ran under Job # R90101 from NGS Q145 by S5103
Ref Mon # 2 BURLINGTON RESET	
Ref Mon # 3 MARBLE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080018A	Date Monumented 4/22/1997	Monumented By AHTD	County CARROLL	Route 21	Job Number: R90104,090101
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 201,006.4179		Latitude 36 8 6.7296732
Easting (M) 260,425.9480		Longitude 93 33 2.7015588
Elevation (M)* 420.519		Ellipsoid Height (M): 391.891
Northing (SFT) 659,468.5561		Geoid Height (M): -28.628
Easting (SFT) 854,414.1311		
Elevation (SFT)* 1,379.653		

Convergence Angle 0 54 8.5691692	
Scale Factor 0.999982077	
Elevation Adjust. Factor 0.9999340112	
Combined Adjust. Factor 0.9999160894	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

THE STATION IS LOCATED AT THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 21 SOUTH, LOCATED ABOUT 3.22 KM (2.00 MI) EAST OF MARBLE. THE STATION IS 54.888 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 412, 12.15 METERS EAST OF THE CENTER OF STATE HIGHWAY 21, 5.17 METERS NORTH OF THE CENTER OF THE ENTRANCE TO CAINS REAL ESTATE AND AUCTION COMPANY AND 0.83 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080018 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks				
Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 WOODEN BRACE POST FOR GATE	89	0.90	3.0	AZ Mark Station 080018=MARBLE TRI
MK # 2 SOUTH END OF EAST HEADWALL OF DOUB LE BOX	338	35.36	116.0	Geodetic Azimuth 186 48 09.5532
MK # 3 COMBINATION POLE	171	19.36	63.5	Grid Azimuth 187 42 18.11589

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HUNTSVILLE	
Ref Mon # 2 BURLINGTON RESET	
Ref Mon # 3 MARBLE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080019	Date Monumented 4/22/1997	Monumented By AHTD	County CARROLL	Route 412	Job Number: R90104,090202,090639
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	210,865.4207	0.0003			
Easting (M)	279,989.8794	0.0003			
Elevation (M)*	420.906				
Northing (SFT)	691,814.3011				
Easting (SFT)	918,600.1293				
Elevation (SFT)*	1,380.922				

Convergence Angle	0	46	36.3920696
Scale Factor	0.999998685		
Elevation Adjust. Factor	0.9999339505		
Combined Adjust. Factor	0.9999326356		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF GARAGE	353	45.08	147.9
MK # 2	NORTHWEST CORNER OF ROCK HOUSE	78	33.25	109.1
MK # 3	WOODEN CORNER POST	170	37.85	124.2

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AROZ</td> </tr> </table>	Ref Mon # 1	ARHR	Ref Mon # 2	ARFY	Ref Mon # 3	AROZ	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARHR							
Ref Mon # 2	ARFY							
Ref Mon # 3	AROZ							
Comments								

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: GEOID18

Latitude 36 13 35.8591692

Longitude 93 20 5.6302800

Ellipsoid Height (M): 392.717

Geoid Height (M): -28.113

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 WEST AND U.S. HIGHWAY 62, LOCATED IN ALPENA, GO SOUTHERLY ON U.S. HIGHWAY 412 FOR 8.77 KM (5.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 33.60 METERS SOUTH OF THE CENTER OF A PAVED DRIVEWAY, 11.74 METERS EAST OF THE CENTER OF U.S. HIGHWAY 412 AND 0.50 METERS EAST-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 080019 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080019A RESET	4/22/1997	ARDOT	CARROLL	412	090639

Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	210,444.3036	0.0003			
Easting (M)	280,028.1763	0.0003			
Elevation (M)*	414.664	0.0015			
Northing (SFT)	690,432.6861				
Easting (SFT)	918,725.7751				
Elevation (SFT)*	1,360.443				

Convergence Angle	0	46	35.3668355		
Scale Factor	0.999997946				
Elevation Adjust. Factor	0.9999349299				
Combined Adjust. Factor	0.9999328761				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (1986)				
Latitude	36	13	22.2298068		
Longitude	93	20	3.8644224		
Ellipsoid Height:	385.806				
Grid Northing (Meters)	210,444.7630				
Grid Easting (Meters)	280,028.2820				

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	POWER POLE		183	14.90	48.9
MK # 2	CENTER WOODEN POST OF FENCE LINE BR		260	25.15	82.5
MK # 3	TELEPHONE JUNCTION BOX		319	33.55	110.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR Ref Mon # 2 ARFY Ref Mon # 3 AROZ	**CAP IS STAMPED 080037** POINT NUMBER WAS DUPLICATED WITH 080037 IN JOB 090424 ALONG HWY 23.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080020	Date Monumented 12/30/1997	Monumented By AHTD	County CARROLL	Route 21	Job Number: 090197,R90079,090346
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	224,584.3380	
Easting (M)	259,776.4980	
Elevation (M)*	391.269	

Northing (SFT)	736,823.7823	
Easting (SFT)	852,283.3939	
Elevation (SFT)*	1,283.688	

Convergence Angle	0	54	32.3880676
Scale Factor	1.000024583		
Elevation Adjust. Factor	0.9999386009		
Combined Adjust. Factor	0.9999631824		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 21 SOUTH, LOCATED ON THE EAST SIDE OF BERRYVILLE, GO SOUTH ON STATE HIGHWAY 21 FOR 1.29 KM (0.80 MI) TO THE STATION ON THE LEFT. THE STATION IS 41.836 METERS NORTH OF THE CENTER OF A PAVED PASTURE ENTRANCE, 10.885 METERS EAST OF THE CENTER OF STATE HIGHWAY 21 AND 1.085 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080020 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	167	109.44	359.1
MK # 2	GAS METER	271	79.47	260.7
MK # 3	WOODEN CORNER POST	308	91.69	300.8

AZ Mark Station	080028
Geodetic Azimuth	358 58 53
Grid Azimuth	359 53 25

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY</p> <p>Ref Mon # 2 ARP2</p> <p>Ref Mon # 3 ARHR</p>	<p style="text-align: center; margin: 0;">Comments</p> <p>Original Elevation (1283.6474') established by 3-wire levels from NGS F157 Reset by S5101 in Job 090197 in Feb 2006. UPDATED ELEVATION ESTABLISHED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM U 5 IN APRIL 2013 BY S5112 FOR JOB # 090346.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080021	Date Monumented 12/30/1997	Monumented By AHTD	County CARROLL	Route 221	Job Number: R90079
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	224,841.1540	
Easting (M)	256,500.7200	
Elevation (M)*	341.307	
Northing (SFT)	737,666.3527	
Easting (SFT)	841,536.1122	
Elevation (SFT)*	1,119.771	

Convergence Angle	0	55	48.9187343
Scale Factor	1.000025011		
Elevation Adjust. Factor	0.9999464407		
Combined Adjust. Factor	0.9999714503		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST IN-LINE WOODEN FENCE POST	80	18.26	59.9
MK # 2	GUY POLE	133	31.04	101.8
MK # 3	GUY POLE	258	61.31	201.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="CASSPORT"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="TA-05"/> Ref Mon # 3 <input style="width: 150px;" type="text" value="ARP2"/>	

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude

Longitude

Ellipsoid Height (M):

Geoid Height (M):

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 221 (WEST CARL STREET), LOCATED IN BERRYVILLE, GO WEST ON STATE HIGHWAY 221 (WEST CARL STREET) FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF HUNTSVILLE STREET, GO LEFT AND SOUTH THEN WEST ON STATE HIGHWAY 221 (HUNTSVILLE STREET) FOR 0.89 KM (0.55 MI) TO A T-JUNCTION WITH MCKENNON AVENUE ON THE RIGHT AND STATE HIGHWAY 221 ON THE LEFT, GO LEFT AND SOUTH ON STATE HIGHWAY 221 FOR 3.54 KM (2.20 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.447 METERS NORTH OF THE CENTER OF STATE HIGHWAY 221 AND 1.280 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080021 1997" SET ON TOP OF AN IRON 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080021A	Date Monumented 12/30/1997	Monumented By AHTD	County CARROLL	Route 221	Job Number: R90079
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	224,812.5711	
Easting (M)	256,834.2830	
Elevation (M)*	334.397	
Northing (SFT)	737,572.5770	
Easting (SFT)	842,630.4768	
Elevation (SFT)*	1,097.101	

Convergence Angle	0	55	41.1247575
Scale Factor	1.000024962		
Elevation Adjust. Factor	0.9999475250		
Combined Adjust. Factor	0.9999724857		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 STATE HIGHWAY 221 (WEST CARL STREET), LOCATED IN BERRYVILLE, GO WEST ON STATE HIGHWAY 221 (WEST CARL STREET) FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF HUNTSVILLE STREET, GO LEFT AND SOUTH THEN WEST ON STATE HIGHWAY 221 (HUNTSVILLE STREET) FOR 0.89 KM (0.55 MI) TO A T-JUNCTION WITH MCKENNON AVENUE ON THE RIGHT AND STATE HIGHWAY 221 ON THE LEFT, GO LEFT AND SOUTH ON STATE HIGHWAY 221 FOR 3.22 KM (2.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.00 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 221 AND 0.67 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080021A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	GUY POLE		89	32.62	107.0
MK # 2	POWER POLE		265	26.96	88.4
MK # 3	WOODEN CORNER POST		313	37.27	122.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 100%;" type="text" value="CASSPORT"/> Ref Mon # 2 <input style="width: 100%;" type="text" value="TA-05"/> Ref Mon # 3 <input style="width: 100%;" type="text" value="ARP2"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080022	Date Monumented 11/29/1999	Monumented By AHTD	County CARROLL	Route 23	Job Number: 009830
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	236,139.1021	
Easting (M)	243,575.2160	
Elevation (M)*		
Northing (SFT)	774,733.0375	
Easting (SFT)	799,129.6878	
Elevation (SFT)*		

Convergence Angle	-1	0	55.1794988
Scale Factor	1.000049817		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	TELEPHONE POLE	148	24.44	80.2	Geodetic Azimuth	340 16 52.53077
MK # 2	PIPE CORNER POST	100	14.70	48.2	Grid Azimuth	341 17 47.58465
MK # 3	WOODEN CORNER POST	290	5.97	19.6		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SALLISAW 1 CORS ARP	
Ref Mon # 2 NEODSHA CORS ARP	
Ref Mon # 3 CONWAY CORS ARP	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080022A	Date Monumented 11/29/1999	Monumented By AHTD	County CARROLL	Route 187	Job Number: 009830
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	237,570.3772	
Easting (M)	243,090.6600	
Elevation (M)*		
Northing (SFT)	779,428.8125	
Easting (SFT)	797,539.9404	
Elevation (SFT)*		

Convergence Angle	-1	1	7.0942773
Scale Factor	1.000053224		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN GATE POST	162	6.35	20.8
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SALLISAW 1 CORS ARP	
Ref Mon # 2 NEODSHA CORS ARP	
Ref Mon # 3 CONWAY CORS ARP	

Vertical Determined By: NONE	
Elevation Datum: NONE	
Geoid Datum:	
Latitude	36 27 43.3553112
Longitude	93 45 1.9415232
Ellipsoid Height (M):	269.512
Geoid Height (M):	-28.239

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 187, LOCATED ABOUT 3.21 KM (2.00 MI) NORTH OF EUREKA SPRINGS, GO WEST ON STATE HIGHWAY 187 FOR 1.85 KM (1.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.60 METERS NORTHWEST OF THE CENTER OF A PASTURE ENTRANCE, 5.75 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 187 AND 1.08 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080022A 1999" SET ON TOP OF AN IRON ROD 0.33 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080023	Date Monumented 2/8/2001	Monumented By AHTD	County CARROLL	Route 187	Job Number: 090100
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	239,080.1375	
Easting (M)	241,116.0194	
Elevation (M)*		
Northing (SFT)	784,382.0844	
Easting (SFT)	791,061.4736	
Elevation (SFT)*		

Convergence Angle	-1	1	53.8685028
Scale Factor	1.000056808		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	343	15.35	50.4
MK # 2	POWER POLE	77	31.85	104.5
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>TA-05</td> </tr> <tr> <td>Ref Mon # 2</td> <td>CASSPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>080020</td> </tr> </table>	Ref Mon # 1	TA-05	Ref Mon # 2	CASSPORT	Ref Mon # 3	080020	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	TA-05							
Ref Mon # 2	CASSPORT							
Ref Mon # 3	080020							
Comments								

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 36 28 31.1781720

Longitude 93 46 22.3235400

Ellipsoid Height (M): 276.827

Geoid Height (M): -28.259

Location Description

TO REACH THE STATION FROM THE U.S. POST OFFICE AT BEAVER, ARKANSAS GO NORTHWEST ON STATE HIGHWAY 187 (MAIN STREET) FOR .322 KM (0.2MI) TO THE STATION ON THE LEFT. THE STATION IS 32.65 METERS WEST OF THE CENTER OF FEATHER CREEK DRIVE, 7.82 METERS SOUTH OF THE CENTER OF HIGHWAY 187, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080023 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 666.662 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080023A	Date Monumented 2/8/2001	Monumented By AHTD	County CARROLL	Route 187	Job Number: 090100
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	239,694.7124	
Easting (M)	241,374.4014	
Elevation (M)*		
Northing (SFT)	786,398.4023	
Easting (SFT)	791,909.1819	
Elevation (SFT)*		

Convergence Angle	-1	1	48.0884247
Scale Factor	1.000058329		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE AT BEAVER, ARKANSAS GO SOUTHEAST ON HWY. 187 (MAIN STREET) FOR 0.161KM (0.1MI), TO A ONE LANE BRIDGE CROSSING WHITE RIVER THENCE CONTINUE ON HWY. 187 FOR 1.287KM (0.8MI) TO COUNTY ROAD 254 LEFT (WOODSDALE DR.) LEADING TO HOLIDAY ISLAND, THENCE LEFT ON SAID ROAD FOR 1.448KM (0.9MI) TO STATELINE DR. TO THE RIGHT AND A THREE WAY STOP, CONTINUE ON WOODSDALE DR. FOR 1.207KM (0.75MI) CROSSING LEATHERWOOD CREEK BRIDGE TO THE ISLAND AND SHIELD'S DR. TO THE LEFT, THENCE LEFT ON SHIELD'S DR. TO FOR 1.127KM (0.7MI) TO APPALOOSA DR. TO THE LEFT. THENCE LEFT ON APPALOOSA DR. FOR .885KM (0.55MI) TO A SHARP TURN TO THE LEFT AND AN OVERLOOK ON THE RIGHT. THE STATION IS ON THE RIGHT, AND SOUTH SIDE OF THE OVERLOOK. THE STATION IS 17.25 METERS SOUTH OF APPALOOSA DR., AND 4.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080023A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 666.662 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	320	17.10	56.1
MK # 2	PROPERTY PIN STAMPED RLS 1302	105	6.35	20.8
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TA-05 Ref Mon # 2 CASSPORT Ref Mon # 3 080020	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080024	Date Monumented 12/16/2002	Monumented By AHTD	County CARROLL	Route 62	Job Number: 090149
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	225,424.8661	
Easting (M)	260,650.3870	
Elevation (M)*		
Northing (SFT)	739,581.4149	
Easting (SFT)	855,150.4780	
Elevation (SFT)*		

Convergence Angle	0	54	12.3068211
Scale Factor	1.000026383		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	109	27.15	89.1
MK # 2	CORRRIGATED METAL PIPE	122	29.90	98.1
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	NDS1, OKMU
Ref Mon # 2	CNWM
Ref Mon # 3	AHTD HAR1

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 36 21 18.9534672

Longitude 93 33 9.1247544

Ellipsoid Height (M): 354.853

Geoid Height (M): -28.143

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 21 SOUTH AND U.S. HIGHWAY 62 ON THE EAST SIDE OF BERRYVILLE, GO EAST ON U.S. HIGHWAY 62 FOR 0.61 MILES TO THE STATION ON THE LEFT. THE STATION IS 34.00 METERS WEST OF THE CENTER OF CARTER STREET, 16.15 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 62, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080024 2002" SET ON TOP OF AN IRON ROD 0.37 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080024A	Date Monumented 12/16/2002	Monumented By AHTD	County CARROLL	Route 62	Job Number: 090149
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	225,178.4141	
Easting (M)	261,083.5260	
Elevation (M)*		
Northing (SFT)	738,772.8469	
Easting (SFT)	856,571.5349	
Elevation (SFT)*		

Convergence Angle	0	54	2.1089730
Scale Factor	1.000025876		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	COMBINATION POLE	113	13.10	43.0		080024
MK # 2						298 44 27
MK # 3						299 38 29

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NDS1, OKMU	
Ref Mon # 2 CNWM	
Ref Mon # 3 AHTD HAR1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080025	Date Monumented 12/16/2002	Monumented By AHTD	County CARROLL	Route 62	Job Number: 090149,090330
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	224,744.1221	
Easting (M)	264,969.6180	
Elevation (M)*	429.420	
Northing (SFT)	737,348.0073	
Easting (SFT)	869,321.1551	
Elevation (SFT)*	1,408.855	

Convergence Angle	0	52	31.2726989
Scale Factor	1.000025088		
Elevation Adjust. Factor	0.9999326146		
Combined Adjust. Factor	0.9999577009		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END CORRIGATED METAL PIPE	138	15.50	50.9
MK # 2	EAST POST OF CHURCH SIGN	216	4.12	13.5
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	NDS1, OKMU
Ref Mon # 2	CNWM
Ref Mon # 3	AHTD HAR1

Comments
ELEV. WAS EST. FROM GPS PN: 080030 DURING JOB 090330 BY CREW S5101. PN: 080030 WAS EST. FROM NGS BM Q 158 RESET DURING JOB 009702.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080025A	Date Monumented 12/16/2002	Monumented By AHTD	County CARROLL	Route 62	Job Number: 090149,090330
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	224,026.5081	
Easting (M)	265,366.2300	
Elevation (M)*	421.942	
Northing (SFT)	734,993.6353	
Easting (SFT)	870,622.3729	
Elevation (SFT)*	1,384.321	

Convergence Angle	0	52	21.7631263
Scale Factor	1.000023598		
Elevation Adjust. Factor	0.9999337880		
Combined Adjust. Factor	0.9999573844		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	229	7.95	26.1
MK # 2	CROSS TIE CORNER POST	273	11.50	37.7
MK # 3	SOUTHEAST END CORRIGATED METAL PIP	324	10.85	35.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NDS1, OKMU	ELEV. WAS EST. FROM GPS PN: 080030 DURING JOB 090330 BY CREW S5101. PN: 080030 WAS EST. FROM NGS BM Q 158 RESET DURING JOB 009702.
Ref Mon # 2 CNWM	
Ref Mon # 3 AHTD HAR1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080026	Date Monumented 1/14/2003	Monumented By AHTD	County CARROLL	Route 23	Job Number: 090167,090073,090424
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	220,686.5631 0.0030
Easting (M)	241,811.9076 0.0030
Elevation (M)*	491.973
Northing (SFT)	724,035.8324
Easting (SFT)	793,344.5669
Elevation (SFT)*	1,614.081

Convergence Angle	-1 1 29.9152478
Scale Factor	1.000015996
Elevation Adjust. Factor	0.9999227994
Combined Adjust. Factor	0.9999387942

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE MADISON / CARROLL COUNTY LINE LOCATED SOUTH OF EUREKA SPRINGS, GO NORTH ON STATE HIGHWAY 23 FOR 0.31 MILES TO THE STATION ON THE RIGHT. THE STATION IS 16.50 METERS EAST OF THE CENTER OF STATE HIGHWAY 23 AND 1.00 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080026 2003" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END CONCRETE HEAD WALL	175	31.00	101.7
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY, ARLR</p> <p>Ref Mon # 2 ARHR</p> <p>Ref Mon # 3 MOCS</p>	<p style="text-align: center;">Comments</p> <p>SEE STATION 080026OLD_DATUMS FOR PREVIOUS TWO DATUMS NAD 83 (1986 & 1997) ELEV. FROM DIGITAL LEVELS BY S5112 IN NOV. 2014 FOR JOB #090424 FROM A SINGLE 2ND ORDER NGS BM Y 51.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080026A	Date Monumented 1/14/2003	Monumented By AHTD	County CARROLL	Route 23	Job Number: 090167,090073
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	220,259.0401	
Easting (M)	241,822.7280	
Elevation (M)*	494.859	
Northing (SFT)	722,633.2007	
Easting (SFT)	793,380.0668	
Elevation (SFT)*	1,623.550	

Convergence Angle	-1	1	29.4845431
Scale Factor	1.000015147		
Elevation Adjust. Factor	0.9999223465		
Combined Adjust. Factor	0.9999374924		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	36	18	21.1098708
Longitude	93	45	40.4192592
Ellipsoid Height:	466.826		
Grid Northing (Meters)	220,259.0406		
Grid Easting (Meters)	241,822.7325		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	175	9.40	30.8
MK # 2	POWER POLE	61	10.60	34.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HAR 1, Russport	ELEVATION BY 3-WIRE FROM NGS POINT Y 51 BY S5103
Ref Mon # 2 Moscogee CORS, Conway Mo.	
Ref Mon # 3 Salisaw CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
0026OLD DATUM	1/14/2003	AHTD	CARROLL	23	090167,090073

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	220,686.5571	
Easting (M)	241,811.8890	
Elevation (M)*	491.973	
Northing (SFT)	724,035.8128	
Easting (SFT)	793,344.5058	
Elevation (SFT)*	1,614.080	

Convergence Angle	-1	1	29.9156794
Scale Factor	1.000015996		
Elevation Adjust. Factor	0.9999227994		
Combined Adjust. Factor	0.9999387942		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	36	18	34.9713108
Longitude	93	45	41.1600312
Ellipsoid Height:	463.936		
Grid Northing (Meters)	220,686.5680		
Grid Easting (Meters)	241,811.8972		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END CONCRETE HEAD WALL	175	31.00	101.7
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD HAR 1, Russport Ref Mon # 2 Moscogee CORS, Conway Mo. Ref Mon # 3 Salisaw CORS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3-WIRE FROM NGS POINT Y 51 BY S5103</td> </tr> </table>	Comments	ELEVATION BY 3-WIRE FROM NGS POINT Y 51 BY S5103
Comments			
ELEVATION BY 3-WIRE FROM NGS POINT Y 51 BY S5103			

Location Description
TO REACH THE STATION FROM THE MADISON / CARROLL COUNTY LINE LOCATED SOUTH OF EUREKA SPRINGS, GO NORTH ON STATE HIGHWAY 23 FOR 0.31 MILES TO THE STATION ON THE RIGHT. THE STATION IS 16.50 METERS EAST OF THE CENTER OF STATE HIGHWAY 23 AND 1.00 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080026 2003" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	080026A
Geodetic Azimuth	177 31 22
Grid Azimuth	178 32 52

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080027	Date Monumented 5/13/2003	Monumented By AHTD	County CARROLL	Route 62	Job Number: 9932
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	235,296.9091	
Easting (M)	239,534.7550	
Elevation (M)*		
Northing (SFT)	771,969.9426	
Easting (SFT)	785,873.6087	
Elevation (SFT)*		

Convergence Angle	-1	2	29.2147878
Scale Factor	1.000047653		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	TELEPHONE JUNCTION BOX	70	11.50	37.7		080027A
MK # 2	TELEPHONE JUNCTION BOX	278	29.00	95.1		294 20 26
MK # 3						295 22 55

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CONWAY, MO Ref Mon # 2 NEODESHA, KS Ref Mon # 3 MUSKOGEE, OK V-26	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080027A	Date Monumented 5/13/2003	Monumented By AHTD	County CARROLL	Route 62	Job Number: 9932
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	235,544.4751	
Easting (M)	239,012.9570	
Elevation (M)*		
Northing (SFT)	772,782.1654	
Easting (SFT)	784,161.6764	
Elevation (SFT)*		

Convergence Angle	-1	2	41.5091905
Scale Factor	1.000048214		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHAIN LINK CORNER POST	289	6.80	22.3
MK # 2	POWER POLE	113	30.45	99.9
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CONWAY, MO Ref Mon # 2 NEODESHA, KS Ref Mon # 3 MUSKOGEE,OK V-26	

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 36 26 35.2631400

Longitude 93 47 44.1945816

Ellipsoid Height (M): 407.764

Geoid Height (M): -28.201

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 187 AND U.S. HIGHWAY 62 WEST OF EUREKA SPRINGS, GO WEST ON U.S. HIGHWAY 62 FOR 1.35 MILES TO THE STATION ON THE LEFT. THE STATION IS 13.85 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 62, 1.70 METERS NORTH OF A CHAIN LINK FENCE, AND 1.35 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080027A 2003" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080028	Date Monumented 12/3/2004	Monumented By AHTD	County CARROLL	Route 21	Job Number: 090197,090346
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	225,037.2550
Easting (M)	259,775.6310
Elevation (M)*	386.223
Northing (SFT)	738,309.7274
Easting (SFT)	852,280.5494
Elevation (SFT)*	1,267.133

Convergence Angle	0 54 32.5759807
Scale Factor	1.000025534
Elevation Adjust. Factor	0.9999393927
Combined Adjust. Factor	0.9999649252

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATON POLE	208	11.00	36.1
MK # 2	GAS METER	353	32.50	106.6
MK # 3				

AZ Mark Station	080020
Geodetic Azimuth	178 58 52
Grid Azimuth	179 53 25

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 ARP2 Ref Mon # 3 ARHR	Original Elevation (1283.6474') established by 3-wire levels from NGS F157 Reset by S5101 in Job 090197 in Feb 2006. UPDATED ELEVATION ESTABLISHED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM U 5 IN APRIL 2013 BY S5112 FOR JOB # 090346.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080029	Date Monumented 1/27/2005	Monumented By AHTD	County CARROLL	Route 23	Job Number: 090073,090424
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	223,911.2112 0.0030
Easting (M)	242,450.8596 0.0030
Elevation (M)*	496.697

Northing (SFT)	734,615.3654		
Easting (SFT)	795,440.8619		
Elevation (SFT)*	1,629.581		

Convergence Angle	-1	1	16.3546482
Scale Factor	1.000022571		
Elevation Adjust. Factor	0.9999220581		
Combined Adjust. Factor	0.9999446273		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	36	20	19.9385592
Longitude	93	45	17.8561116
Ellipsoid Height:	468.630		
Grid Northing (Meters)	223,911.2061		
Grid Easting (Meters)	242,450.8460		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END CATTLE GUARD GATE	203	4.40	14.4
MK # 2	NORTHWEST CORNER METAL BLDGING	137	7.50	24.6
MK # 3	TELEPHONE RISER	251	34.00	111.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY, ARLR Ref Mon # 2 ARHR Ref Mon # 3 MOCS	NAD 83 (1997) DATUM REF MONUMENTS WERE NDS1, SALL, & CNWM. ELEV.BASED ON DIGITAL LEVELS BY S5112 FOR JOB # 090424 IN NOV. 2014 FROM A SINGLE 2ND ORDER NGS BM Y 51.

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12A
Latitude	36 20 19.9387320
Longitude	93 45 17.8555716
Ellipsoid Height (M):	468.546 0.0050
Geoid Height (M):	-28.124 0.0050

Location Description
TO REACH THE STATION MARK FORM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 62, IN EUREKA SPRINGS, GO SOUTH ON HIGHWAY 23 4.25 MILES TO THE STATION MARK ON THE LEFT, EAST 28.05 METERS OF THE CENTERLINE OF THE HIGHWAY AND AT THE NORTHWEST CORNER OF TINA JOHSON'S BLONDIE'S HAIR CARE METAL BUILDING. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080029 2005" ON TOP OF A 0.80 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND. THERE IS NO WITNESS POST.

AZ Mark Station	080029A
Geodetic Azimuth	209 36 13
Grid Azimuth	210 37 29

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080029A	Date Monumented 1/27/2005	Monumented By AHTD	County CARROLL	Route 23	Job Number: 090073, 090424
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	223,202.0470	
Easting (M)	242,031.0350	
Elevation (M)*	483.193	
Northing (SFT)	732,288.7159	
Easting (SFT)	794,063.4873	
Elevation (SFT)*	1,585.276	

Convergence Angle	-1	1	25.8533529
Scale Factor	1.000021093		
Elevation Adjust. Factor	0.9999241770		
Combined Adjust. Factor	0.9999452684		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 62, IN EUREKA SPRINGS, GO SOUTH ON HIGHWAY 23 4.85 MILES TO THE STATION MARK ON THE LEFT, EAST 14.50 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST 0.85 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080029A 2005" ON TOP OF A 0.80 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 CNWM</p> <p>Ref Mon # 2 SALI</p> <p>Ref Mon # 3 NDS1</p>	<p style="text-align: center;">Comments</p> <p>ELEV.BASED ON DIGITAL LEVELS BY S5112 FOR JOB # 090424 IN NOV. 2014 FROM A SINGLE 2ND ORDER NGS BM Y 51.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080030	Date Monumented 6/20/2005	Monumented By AHTD	County CARROLL	Route 103	Job Number: 009702,090330
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	223,117.6691	
Easting (M)	269,078.4730	
Elevation (M)*	412.288	
Northing (SFT)	732,011.8860	
Easting (SFT)	882,801.6235	
Elevation (SFT)*	1,352.649	

Convergence Angle	0	50	54.8343870
Scale Factor	1.000021829		
Elevation Adjust. Factor	0.9999353027		
Combined Adjust. Factor	0.9999571303		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	304	29.20	95.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 W.H. PHILLIPS	ELEVATION WAS EST. BY THREE WIRE LEVELS DURING JOB 009702 FROM NGS BM Q 158 RESET
Ref Mon # 2 CNWM, ARP 2	
Ref Mon # 3 080025, 080025A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080030A	Date Monumented 6/20/2005	Monumented By AHTD	County CARROLL	Route 103	Job Number: 009702,090330
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	222,727.8970	
Easting (M)	269,041.2790	
Elevation (M)*	412.931	
Northing (SFT)	730,733.1087	
Easting (SFT)	882,679.5962	
Elevation (SFT)*	1,354.757	

Convergence Angle	0	50	55.5674018
Scale Factor	1.000021025		
Elevation Adjust. Factor	0.9999352019		
Combined Adjust. Factor	0.9999562255		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF CULVERT	34	8.60	28.2
MK # 2	COMBINATION POLE	355	4.20	13.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 W.H. PHILLIPS Ref Mon # 2 CNWM, ARP 2 Ref Mon # 3 080025, 080025A	ELEVATION WAS EST. BY THREE WIRE LEVELS DURING JOB 009702 FROM NGS BM Q 158 RESET

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62W AND STATE HIGHWAY 103S, WEST OF GREEN FOREST, GO SOUTH ON HIGHWAY 103 0.4 MILES TO THE STATION MARK ON THE RIGHT, WEST 11.50 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 1.00 METERS OF A WITNESS POST, SOUTH 11.40 METERS FROM THE CENTERLINE OF A DRIVE WAY. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080030A 2005" ON TOP OF A 1.00 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080031	Date Monumented 6/20/2005	Monumented By AHTD	County CARROLL	Route 62	Job Number: 009702
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 222,987.9451		Geoid Datum:
Easting (M) 272,347.9640		Latitude 36 20 5.6360292
Elevation (M)* 		Longitude 93 25 18.6076524
Northing (SFT) 731,586.2832		Ellipsoid Height (M): 382.864
Easting (SFT) 893,528.2786		Geoid Height (M): -28.160
Elevation (SFT)* 		

Convergence Angle 0 49 38.5133297	Location Description
Scale Factor 1.000021660	<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62E AND STATE HIGHWAY 103N, IN GREEN FOREST, GO EAST ON HIGHWAY 62 0.80 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 9.80 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080031 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL				
Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	2.73	11.30	37.1	080031A
MK # 2	GUY WIRE	260	11.30	37.1	89 12 24
MK # 3	FIRE HYDRANDT #104	100	26.10	85.6	90 02 02

Area Reference Monuments (used for Processing) Ref Mon # 1 W.H. PHILLIPS Ref Mon # 2 CNWM, ARP 2 Ref Mon # 3 080025, 080025A	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080031A	Date Monumented 6/20/2005	Monumented By AHTD	County CARROLL	Route 62	Job Number: 009702
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	222,987.6311	
Easting (M)	272,878.7610	
Elevation (M)*		
Northing (SFT)	731,585.2530	
Easting (SFT)	895,269.7350	
Elevation (SFT)*		

Convergence Angle	0	49	26.1298126
Scale Factor	1.000021675		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	80	13.10	43.0
MK # 2	WEST END OF CULVERT	114	6.30	20.7
MK # 3	EAST END OF CULVERT	238	4.05	13.3

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>W.H. PHILLIPS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>CNWM, ARP 2</td> </tr> <tr> <td>Ref Mon # 3</td> <td>080025, 080025A</td> </tr> </table>	Ref Mon # 1	W.H. PHILLIPS	Ref Mon # 2	CNWM, ARP 2	Ref Mon # 3	080025, 080025A	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	W.H. PHILLIPS						
Ref Mon # 2	CNWM, ARP 2						
Ref Mon # 3	080025, 080025A						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 20 5.8739784
Longitude	93 24 57.3264432
Ellipsoid Height (M):	388.393
Geoid Height (M):	-28.164

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62E AND STATE HIGHWAY 103N, IN GREEN FOREST, GO EAST ON HIGHWAY 62 1.1 MILES TO THE STATION MARK ON THE LEFT, WEST OF THE CENTERLINE OF A ROAD 8.70METERS., NORTH 9.80 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080031 2005" ON TOP OF A 0.80 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	0800331
Geodetic Azimuth	269 12 36
Grid Azimuth	270 02 02

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080032	Date Monumented 3/1/2006	Monumented By AHTD	County CARROLL	Route 62	Job Number: 090219
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	221,357.2630	
Easting (M)	276,247.7780	
Elevation (M)*	345.533	
Northing (SFT)	726,236.2870	
Easting (SFT)	906,322.9183	
Elevation (SFT)*	1,133.636	

Convergence Angle	0	48	6.9982677
Scale Factor	1.000018444		
Elevation Adjust. Factor	0.9999457775		
Combined Adjust. Factor	0.9999642205		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	RIGHT OF WAY MARKER	86	1.15	3.8	
MK # 2	NORTHEAST END METAL CULVERT	238	4.55	14.9	
MK # 3	METAL GATE POST	329	2.40	7.9	

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHR Ref Mon # 2 CNWM Ref Mon # 3 080031, 080031A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 19 14.5376292
Longitude	93 22 41.3380200
Ellipsoid Height (M):	317.369
Geoid Height (M):	-28.164

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 62, IN ALPENA, GO WEST ON HIGHWAY 62 FOR 5.10 MILES TO THE STATION MARK ON THE RIGHT, NORTHEAST 98.30 FEET OF THE CENTERLINE OF THE HIGHWAY, EAST 21.0 FEET OF A CONCRETE DR

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080032A	Date Monumented 3/1/2006	Monumented By AHTD	County CARROLL	Route 62	Job Number: 090219
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	221,747.9161	
Easting (M)	275,944.2990	
Elevation (M)*	355.172	
Northing (SFT)	727,517.9547	
Easting (SFT)	905,327.2543	
Elevation (SFT)*	1,165.260	

Convergence Angle	0	48	14.2050261
Scale Factor	1.000019227		
Elevation Adjust. Factor	0.9999442650		
Combined Adjust. Factor	0.9999634910		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	WOOD FENCE POST	90	7.80	25.6		080032
MK # 2	WOOD FENCE POST	324	8.20	26.9		141 21 15
MK # 3						142 09 29

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR	
Ref Mon # 2 CNWM	
Ref Mon # 3 080031, 080031A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080033	Date Monumented 3/1/2006	Monumented By AHTD	County CARROLL	Route 62	Job Number: 090219
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	218,697.0561	
Easting (M)	280,075.0000	
Elevation (M)*	407.744	
Northing (SFT)	717,508.5916	
Easting (SFT)	918,879.3958	
Elevation (SFT)*	1,337.740	

Convergence Angle	0	46	36.8832083
Scale Factor	1.000013255		
Elevation Adjust. Factor	0.9999360158		
Combined Adjust. Factor	0.9999492699		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE POLE W/PEDSTAL	274	17.40	57.1	
MK # 2	WOOD CORNER FENCE POST	85	12.70	41.7	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHR Ref Mon # 2 CNWM Ref Mon # 3 080031, 080031A	Comments <div style="border: 1px solid black; height: 150px; margin-top: 10px;"></div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 17 49.9534728
Longitude	93 20 6.4743072
Ellipsoid Height (M):	379.595
Geoid Height (M):	-28.148

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 62, IN ALPENA, GO WEST ON HIGHWAY 62 FOR 2.10 MILES TO THE STATION MARK ON THE RIGHT, NORTH 36.30 FEET OF THE CENTERLINE OF THE HIGHWAY, SOUTH 3.40 FEET OF A WITNESS POST.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080033A	Date Monumented 3/1/2006	Monumented By AHTD	County CARROLL	Route 62	Job Number: 090219
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	218,705.1060	
Easting (M)	279,652.2520	
Elevation (M)*	392.710	
Northing (SFT)	717,535.0019	
Easting (SFT)	917,492.4301	
Elevation (SFT)*	1,288.416	

Convergence Angle	0	46	46.7438484
Scale Factor	1.000013260		
Elevation Adjust. Factor	0.9999383748		
Combined Adjust. Factor	0.9999516340		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTHEAST POLE ON BILLBOARD	115	18.00	59.1	
MK # 2	ONLY WOOD POST ON FENCE LINE	109	18.50	60.7	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHR Ref Mon # 2 CNWM Ref Mon # 3 080031, 080031A	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 17 50.0283168
Longitude	93 20 23.4199248
Ellipsoid Height (M):	364.565
Geoid Height (M):	-28.145

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 62, IN ALPENA, GO WEST ON HIGHWAY 62 FOR 2.3 MILES TO THE STATION MARK ON THE LEFT, SOUTH 37.50 FEET OF THE CENTERLINE OF THE HIGHWAY, AND NORTH 2.70 FEET OF A WITNESS POS

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080034	Date Monumented 7/1/2008	Monumented By AHTD	County CARROLL	Route 62	Job Number: 009901,090346
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	227,870.2211	
Easting (M)	257,911.4660	
Elevation (M)*	387.575	
Northing (SFT)	747,604.2171	
Easting (SFT)	846,164.5347	
Elevation (SFT)*	1,271.569	

Convergence Angle	0	55	17.1378595
Scale Factor	1.000031540		
Elevation Adjust. Factor	0.9999391806		
Combined Adjust. Factor	0.9999707186		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	STEEL SIGN POST	40	6.86	22.5
MK # 2	18" CMP	243	5.49	18.0
MK # 3	18" CMP	160	13.41	44.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR, ARFY	Original elevation (1271.5882') established from Digital Levels ran from 3rd Order NGS mark F 157 RESET by crew S5101 in October 08 for Job # 009901. UPDATED ELEVATION ESTABLISHED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM U 5 IN APRIL 2013 BY S5112 FOR JOB # 090346.
Ref Mon # 2 ARMH	
Ref Mon # 3 Z 5, WH PHILLIPS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080034A	Date Monumented 7/1/2008	Monumented By AHTD	County CARROLL	Route 62	Job Number: 009901,090346
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	227,512.5941	
Easting (M)	258,103.4420	
Elevation (M)*	393.492	
Northing (SFT)	746,430.9025	
Easting (SFT)	846,794.3760	
Elevation (SFT)*	1,290.980	

Convergence Angle	0	55	12.5227726
Scale Factor	1.000030770		
Elevation Adjust. Factor	0.9999382522		
Combined Adjust. Factor	0.9999690203		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR, ARFY	Original elevation (1290.9914') established from Digital Levels ran from 3rd Order NGS mark F 157 RESET by crew S5101 in October 08 for Job # 009901. UPDATED ELEVATION ESTABLISHED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM U 5 IN APRIL 2013 BY S5112 FOR JOB # 090346.
Ref Mon # 2 ARMH	
Ref Mon # 3 Z 5, WH PHILLIPS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080035	Date Monumented 7/1/2008	Monumented By AHTD	County CARROLL	Route 62	Job Number: 009901
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	229,420.4500	
Easting (M)	254,534.4250	
Elevation (M)*	365.974	
Northing (SFT)	752,690.2597	
Easting (SFT)	835,085.0260	
Elevation (SFT)*	1,200.699	

Convergence Angle	0	56	36.5586259
Scale Factor	1.000034823		
Elevation Adjust. Factor	0.9999425701		
Combined Adjust. Factor	0.9999773911		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	24' CMP	211	11.89	39.0	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARHR, ARFY	Digital Levels ran from 3rd Order NGS mark F 157 RESET by crew S5101 in October 08.
Ref Mon # 2: ARMH	
Ref Mon # 3: Z 5, WH PHILLIPS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080035A	Date Monumented 7/1/2008	Monumented By AHTD	County CARROLL	Route NA	Job Number: 009901
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	228,893.9961	
Easting (M)	254,500.0620	
Elevation (M)*	357.863	
Northing (SFT)	750,963.0522	
Easting (SFT)	834,972.2867	
Elevation (SFT)*	1,174.089	

Convergence Angle	0	56	37.1584050
Scale Factor	1.000033660		
Elevation Adjust. Factor	0.9999438428		
Combined Adjust. Factor	0.9999775009		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	283	15.85	52.0
MK # 2	NE CORNER CHURCH BLD	246	17.68	58.0
MK # 3	WATERWELL	201	13.87	45.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR, ARFY	Digital Levels ran from 3rd Order NGS mark F 157 RESET by crew S5101 in October 08.
Ref Mon # 2 ARMH	
Ref Mon # 3 Z 5, WH PHILLIPS	

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 23 8.2664340
Longitude	93 37 18.0537816
Ellipsoid Height (M):	329.673
Geoid Height (M):	-28.169

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 143N AND CARROLL COUNTY ROAD 980, WEST OF BERRYVILLE, GO SOUTH ON COUNTY ROAD 980 FOR 0.30 MILES TO THE STATION MARK ON THE RIGHT, IN FRONT OF AIRWAY CHAPEL CHURCH, 24.0 FEET SOUTH OF THE CENTERLINE OF TRI STATE ROAD, 36 FEET WEST OF THE CENTERLINE OF COUNTY ROAD 980 AND EAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "080035A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

AZ Mark Station	080035
Geodetic Azimuth	2 47 27
Grid Azimuth	3 44 04

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080036	Date Monumented 9/20/2010	Monumented By AHTD	County CARROLL	Route 21	Job Number: 090283
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	233,887.5561	
Easting (M)	263,960.4620	
Elevation (M)*	358.451	
Northing (SFT)	767,346.0903	
Easting (SFT)	866,010.2824	
Elevation (SFT)*	1,176.017	

Convergence Angle	0	52	58.1077309
Scale Factor	1.000045313		
Elevation Adjust. Factor	0.9999437506		
Combined Adjust. Factor	0.9999890610		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARHR	3 WIRE DIGITAL LEVELS WERE RAN BY CREW S5101 FROM B35 TO D 35 AND CHECKED VIA GPS USING U 5 RESET ON 10/7/2010.
Ref Mon # 2: U 5 OFFSET	
Ref Mon # 3: MOBR	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 25 55.1330436
Longitude	93 31 1.6128084
Ellipsoid Height (M):	330.233
Geoid Height (M):	-28.218

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 21 AND STATE HIGHWAY 221, NORTH NORTHEAST OF BERRYVILLE, GO NORTH ON HIGHWAY 21 FOR 4.9 MILES TO THE MARK ON THE RIGHT, SOUTH OF THE CENTERLINE OF THE HIGHWAY 44.5 FEET AND NORTH 1..2 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "080036 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

AZ Mark Station	080036A
Geodetic Azimuth	87 18 15
Grid Azimuth	88 11 13

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080036A	Date Monumented 9/20/2010	Monumented By AHTD	County CARROLL	Route 21	Job Number: 090283
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	233,904.4261	
Easting (M)	264,493.4040	
Elevation (M)*	359.148	
Northing (SFT)	767,401.4380	
Easting (SFT)	867,758.7763	
Elevation (SFT)*	1,178.304	

Convergence Angle	0	52	45.6653342
Scale Factor	1.000045372		
Elevation Adjust. Factor	0.9999436412		
Combined Adjust. Factor	0.9999890106		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	80	12.95	42.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARHR	3 WIRE DIGITAL LEVELS WERE RAN BY CREW S5101 FROM B35 TO D 35 AND CHECKED VIA GPS USING U 5 RESET ON 10/7/2010.
Ref Mon # 2: U 5 OFFSET	
Ref Mon # 3: MOBR	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 25 55.9461072
Longitude	93 30 40.2304140
Ellipsoid Height (M):	330.928
Geoid Height (M):	-28.220

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 21 AND STATE HIGHWAY 221, NORTH NORTHEAST OF BERRYVILLE, GO NORTH ON HIGHWAY 21 FOR 5.2 MILES TO THE MARK ON THE LEFT, NORTH OF THE CENTERLINE OF THE HIGHWAY 38.7 FEET AND SOUTH 1..7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "080036A 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

AZ Mark Station	080036
Geodetic Azimuth	267 18 28
Grid Azimuth	268 11 13

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080037	Date Monumented 10/21/2014	Monumented By AHTD	County CARROLL	Route 23	Job Number: 090424
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	220,248.5817 0.0030
Easting (M)	241,826.1162 0.0020
Elevation (M)*	494.481
Northing (SFT)	722,598.8885
Easting (SFT)	793,391.1829
Elevation (SFT)*	1,622.310

Convergence Angle	-1 1 29.4011686
Scale Factor	1.000015126
Elevation Adjust. Factor	0.9999224058
Combined Adjust. Factor	0.9999375306

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36 18	20.7725724	
Longitude	93 45	40.2765948	
Ellipsoid Height:	466.454		
Grid Northing (Meters)	220,248.5818		
Grid Easting (Meters)	241,826.1053		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	20	30.90	101.4
MK # 2	POWER POLE W/2 GUYS	65	33.50	109.9
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY, ARLR Ref Mon # 2 ARHR Ref Mon # 3 MOCS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. FROM DIGITAL LEVELS BY S5112 IN NOV. 2014 FOR JOB #090424 FROM A SINGLE 2ND ORDER NGS BM Y 51.</td> </tr> </table>	Comments	ELEV. FROM DIGITAL LEVELS BY S5112 IN NOV. 2014 FOR JOB #090424 FROM A SINGLE 2ND ORDER NGS BM Y 51.
Comments			
ELEV. FROM DIGITAL LEVELS BY S5112 IN NOV. 2014 FOR JOB #090424 FROM A SINGLE 2ND ORDER NGS BM Y 51.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 12, NORTH OF HUNTSVILLE, GO NORTH ON HIGHWAY 23 2.9 MILES TO THE MARK ON THE RIGHT, EAST 23 FEET OF THE EDGE OF THE PAVEMENT AND WEST 7.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 080037" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	80026
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080038	Date Monumented 12/6/2016	Monumented By AHTD	County CARROLL	Route 21	Job Number: 090435
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	204,843.3091	0.0010			
Easting (M)	261,612.6842	0.0010			
Elevation (M)*	407.004				
Northing (SFT)	672,056.7566				
Easting (SFT)	858,307.6147				
Elevation (SFT)*	1,335.314				

Convergence Angle	0	53	42.3475557
Scale Factor	0.999988087		
Elevation Adjust. Factor	0.9999361318		
Combined Adjust. Factor	0.9999242196		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/GUY	228	79.00	259.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM R 145 BY S5112 IN DEC. OF 2016 FOR JOB #090435 DRY FORK CREEK SITE.
Ref Mon # 2 ARHR	
Ref Mon # 3 MOCS	

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 21, EAST OF MARBLE, GO NORTH ON HIGHWAY 21 FOR 2.4 MILES TO THE MARK ON THE RIGHT, EAST 22.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH OF THE CENTERLINE OF GLISSON HOLLOW ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 080038" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

AZ Mark Station	080038A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080038A	Date Monumented 12/6/2016	Monumented By AHTD	County CARROLL	Route N HOLL	Job Number: 090435
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	204,634.6840	0.0020	
Easting (M)	262,046.2773	0.0020	
Elevation (M)*	418.917		
Northing (SFT)	671,372.2924		
Easting (SFT)	859,730.1614		
Elevation (SFT)*	1,374.397		

Convergence Angle	0	53	32.1773322
Scale Factor	0.999987763		
Elevation Adjust. Factor	0.9999342626		
Combined Adjust. Factor	0.9999220264		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOOD FENCE POST/END OF FENCE	114	2.00	6.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM R 145 BY S5112 IN DEC. OF 2016 FOR JOB #090435 DRY FORK CREEK SITE.
Ref Mon # 2 ARHR	
Ref Mon # 3 MOCS	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	36 10 5.2542876
Longitude	93 32 0.1617900
Ellipsoid Height (M):	390.892 0.0050
Geoid Height (M):	-28.022 0.0050

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 21, EAST OF MARBLE, GO NORTH ON HIGHWAY 21 FOR 2.4 MILES TO GLISSON HOLLOW ROAD ON THE RIGHT, TURN RIGHT HERE AND GO 0.3 MILE TO THE MARK ON THE LEFT, NORTHEAST OF THE CENTERLINE OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 080038A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080039	Date Monumented 12/6/2016	Monumented By AHTD	County CARROLL	Route 21	Job Number: 090435
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	210,107.5177	0.0020			
Easting (M)	262,374.3045	0.0020			
Elevation (M)*					
Northing (SFT)	689,327.7477				
Easting (SFT)	860,806.3640				
Elevation (SFT)*					

Convergence Angle	0	53	26.5214822
Scale Factor	0.999996910		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1		251		
MK # 2		286		
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	
Ref Mon # 2 ARHR	
Ref Mon # 3 MOCS	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	36 13 2.9569188
Longitude	93 31 50.4421500
Ellipsoid Height (M):	394.976 0.0180
Geoid Height (M):	-28.070 0.0180

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 21, EAST OF MARBLE, GO NORTH ON HIGHWAY 21 FOR 5.65 MILES TO THE MARK ON THE RIGHT, 28 FEET EAST OF THE CENTERLINE OF THE HIGHWAY AND 12.6 FEET WEST OF A FENCE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 080039" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080039A	Date Monumented 12/6/2016	Monumented By AHTD	County CARROLL	Route 21	Job Number: 090435
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	210,536.5013	0.0020			
Easting (M)	262,385.5694	0.0020			
Elevation (M)*					
Northing (SFT)	690,735.1713				
Easting (SFT)	860,843.3223				
Elevation (SFT)*					

Convergence Angle	0	53	26.4144235
Scale Factor	0.999997658		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 21, EAST OF MARBLE, GO NORTH ON HIGHWAY 21 FOR 5.9 MILES TO THE MARK ON THE LEFT, 17.6 FEET WEST OF THE CENTERLINE OF THE HIGHWAY AND 23 FEET NORTH OF THE CENTERLINE OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 080039A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 ARHR Ref Mon # 3 MOCS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080040	Date Monumented 6/4/2018	Monumented By AHTD	County CARROLL	Route 21	Job Number: 090474, 090559
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	216,136.3420	0.0030			
Easting (M)	263,185.4343	0.0030			
Elevation (M)*	448.112				
Northing (SFT)	709,107.3154				
Easting (SFT)	863,467.5457				
Elevation (SFT)*	1,470.179				

Convergence Angle	0	53	9.7981586
Scale Factor	1.000007861		
Elevation Adjust. Factor	0.9999296816		
Combined Adjust. Factor	0.9999375421		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CP W/GUY	110	19.29	63.3
MK # 2	CENTER HW	131	36.58	120.0
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MOCS</td> </tr> </table>	Ref Mon # 1	ARFY	Ref Mon # 2	ARHR	Ref Mon # 3	MOCS	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2019 FOR JOB #090559 FROM NGS 2ND ORDER BM U 145</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2019 FOR JOB #090559 FROM NGS 2ND ORDER BM U 145
Ref Mon # 1	ARFY								
Ref Mon # 2	ARHR								
Ref Mon # 3	MOCS								
Comments									
ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2019 FOR JOB #090559 FROM NGS 2ND ORDER BM U 145									

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 21S IN BERRYVILLE, GO SOUTH ON HIGHWAY 21 7.4 MILES TO THE MARK ON THE LEFT, NORTHEAST OF THE C/L OF THE HIGHWAY 19.8' AND 22' SOUTHWEST OF A WITNESS POST. THE MARK IS A STANDARD 2" CAP STAMPED "2018 080040" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	080040A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080040A	Date Monumented 6/4/2018	Monumented By AHTD	County CARROLL	Route 21	Job Number: 090474, 090559
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	216,435.5660	0.0030			
Easting (M)	262,974.8099	0.0030			
Elevation (M)*	427.205				
Northing (SFT)	710,089.0195				
Easting (SFT)	862,776.5221				
Elevation (SFT)*	1,401.587				

Convergence Angle	0	53	14.8160785
Scale Factor	1.000008421		
Elevation Adjust. Factor	0.9999329622		
Combined Adjust. Factor	0.9999413826		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CP W/2 GUYS	321	21.15	69.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2019 FOR JOB #090559 FROM NGS 2ND ORDER BM U 145
Ref Mon # 2 ARHR	
Ref Mon # 3 MOCS	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	36 16 28.5353508
Longitude	93 31 30.3262860
Ellipsoid Height (M):	399.065 0.0130
Geoid Height (M):	-28.138 0.0130

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 21S IN BERRYVILLE, GO SOUTH ON HIGHWAY 21 7.15 MILES TO THE MARK ON THE LEFT, NORTHEAST OF THE C/L OF THE HIGHWAY 24.5' AND 15.6' SOUTHWEST OF A FENCE. THE MARK IS A STANDARD 2" CAP STAMPED "2018 080040A" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080041	Date Monumented 9/16/2019	Monumented By ARDOT	County CARROLL	Route 21	Job Number: 090559
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	212,953.4963 0.0030
Easting (M)	263,412.9034 0.0030
Elevation (M)*	437.000
Northing (SFT)	698,664.9291
Easting (SFT)	864,213.8339
Elevation (SFT)*	1,433.726

Convergence Angle	0 53 3.3504414
Scale Factor	1.000001985
Elevation Adjust. Factor	0.9999314251
Combined Adjust. Factor	0.9999334100

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	COMBINATION POLE W/GUY	190	28.50 93.5
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2019 FOR JOB #090559 FROM NGS 2ND ORDER BM U 145 (*NOTE: USED LEVELED ELEV. AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT)
Ref Mon # 2 ARHR	
Ref Mon # 3 MOCS	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	36 14 35.8003536
Longitude	93 31 10.6224636
Ellipsoid Height (M):	408.907
Geoid Height (M):	-28.094

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 21 AND STATE HIGHWAY 412, EAST OF MARBLE, GO NORTH ON HIGHWAY 21 FOR 8 MILES TO THE MARK ON THE RIGHT, 17, SOUTHEAST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "080041 2019" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080041A	Date Monumented 9/16/2019	Monumented By ARDOT	County CARROLL	Route 21	Job Number: 090559
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	213,323.6214	0.0030			
Easting (M)	263,529.7891	0.0030			
Elevation (M)*	448.560				
Northing (SFT)	699,879.2479				
Easting (SFT)	864,597.3164				
Elevation (SFT)*	1,471.652				

Convergence Angle	0	53	0.7597043
Scale Factor	1.000002659		
Elevation Adjust. Factor	0.9999296112		
Combined Adjust. Factor	0.9999322700		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 21 AND STATE HIGHWAY 412, EAST OF MARBLE, GO NORTH ON HIGHWAY 21 FOR 8.25 MILES TO THE MARK ON THE RIGHT, 24.4' EAST OF THE C/L OF THE HIGHWAY AND 64' SOUTH OF THE C/L OF COUNTY ROAD 717. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "080041A 2019" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 ARHR Ref Mon # 3 MOCS	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2019 FOR JOB #090559 FROM NGS 2ND ORDER BM U 145 (*NOTE: USED LEVELED ELEV. AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT)

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080042	Date Monumented 5/4/2021	Monumented By ARDOT	County CARROLL	Route 103	Job Number: 090643
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	216,917.1414	0.0040			
Easting (M)	268,818.1129	0.0040			
Elevation (M)*					
Northing (SFT)	711,668.9881				
Easting (SFT)	881,947.4254				
Elevation (SFT)*					

Convergence Angle	0	50	58.7632326
Scale Factor	1.000009505		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center of box culvert	40	27.00	88.6
MK # 2	South and West Fence Corner	346	20.70	67.9
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 ARHR Ref Mon # 3 ARRV MOBR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Location Description	
From the intersection of US Hwy. 62 and State Hwy. 103. Go south on State Hwy. 103 for 4.1 miles to the station on the right. 36.8' West of the centerline of Hwy. 103	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	36 16 47.0307576
Longitude	93 27 36.5179860
Ellipsoid Height (M):	361.442 0.0170
Geoid Height (M):	-28.169 0.0170

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080042A	Date Monumented 5/4/2021	Monumented By ARDOT	County CARROLL	Route 103	Job Number: 090643
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	217,301.3787	0.0040			
Easting (M)	268,933.3854	0.0040			
Elevation (M)*					
Northing (SFT)	712,929.6066				
Easting (SFT)	882,325.6153				
Elevation (SFT)*					

Convergence Angle	0	50	56.2085602
Scale Factor	1.000010244		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fence Corner	145	43.40	142.4
MK # 2	Combination Pole	62	40.30	132.2
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 ARHR Ref Mon # 3 ARRV, MOBR	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description	
From the intersection of US Hwy. 62 and State Hwy. 103 in Green Forest. Go South on State Hwy. 103 for 3.85 miles to the station on the left. 20.1' East of the centerline of State Hwy. 103, 35.6' North of the centerline of a driveway	

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090001	Date Monumented 6/17/1991	Monumented By AHTD	County CHICOT	Route 65	Job Number: R20095
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	484,012.1161	
Easting (M)	463,008.0450	
Elevation (M)*		
Northing (SFT)	1,587,963.0842	
Easting (SFT)	1,519,052.2276	
Elevation (SFT)*		

Convergence Angle	0	22	45.0600304
Scale Factor	0.999975148		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NBC IN POWER POLE	112	51.73	169.7	91090002 AZ.
MK # 2	NBC IN POWER TRANSMISSION POLE	31	58.80	192.9	341 12 19
MK # 3	NBC IN POWER POLE	7	77.52	254.3	340 49 34

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LAKE Ref Mon # 2 HEE HAW Ref Mon # 3 NONE	OLD PN: 91090001 SEE JOB R20089 IN FILE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090002	Date Monumented 6/17/1991	Monumented By AHTD	County CHICOT	Route 65	Job Number: R20095
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	484,466.2072	
Easting (M)	462,850.1470	
Elevation (M)*		
Northing (SFT)	1,589,452.8815	
Easting (SFT)	1,518,534.1906	
Elevation (SFT)*		

Convergence Angle	0	22	41.7042390
Scale Factor	0.999974391		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	129	86.93	285.2
MK # 2	NBC IN POWER TRANSMISSION POLE	92	38.63	126.7
MK # 3	NBC IN POWER POLE	0	94.98	311.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LAKE	OLD PN: 91090002 SEE JOB R20089 IN FILE.
Ref Mon # 2 HEE HAW	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090003	Date Monumented 6/17/1991	Monumented By AHTD	County CHICOT	Route 65	Job Number: R20095
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Zone	Zone Code	Vertical Determined By:
Arkansas South	302	NONE
Horizontal Datum	NAD 83 (1986)	
Northing (M)	491,442.0962	Elevation Datum:
Easting (M)	460,358.0840	NONE
Elevation (M)*		Geoid Datum:
Northing (SFT)	1,612,339.6106	Latitude
Easting (SFT)	1,510,358.1473	33 29 21.7991004
Elevation (SFT)*		Longitude
		91 21 1.7944596
		Ellipsoid Height (M):
		12.437
		Geoid Height (M):
		-26.743

Convergence Angle	0	21	48.6718649
Scale Factor	0.999963408		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUARD RAIL POST	159	27.49	90.2
MK # 2	NBC IN POWER POLE	192	56.05	183.9
MK # 3	NBC IN POWER POLE	297	69.28	227.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LAKE	OLD PN: 91090003 SEE JOB R20089 IN FILE.
Ref Mon # 2 HEE HAW	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090004	Date Monumented 6/17/1991	Monumented By AHTD	County CHICOT	Route 65	Job Number: R20095
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	491,688.0002	
Easting (M)	460,210.6960	
Elevation (M)*		
Northing (SFT)	1,613,146.3807	
Easting (SFT)	1,509,874.5918	
Elevation (SFT)*		

Convergence Angle	0	21	45.5100587
Scale Factor	0.999963042		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
THE STATION IS ON HWY. 65 SOUTH OF McGEHEE, 476 FEET NORTH OF A FEDERAL AID SECONDARY (FAS) ROAD, 49.0 FEET WEST OF THE CENTERLINE OF HWY. 65 IN THE SOUTHEAST CORNER OF A LAWN IN FRONT OF A BRICK HOME, 90.0 FEET SOUTHWEST OF DRIVEWAY AND 2.60 FEET EAST OF A WITNESS POST.			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN POWER POLE		155	44.90	147.3
MK # 2	NBC IN POWER POLE		334	19.97	65.5
MK # 3	NBC IN COMBINATION POLE		254	50.99	167.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LAKE Ref Mon # 2 HEE HAW Ref Mon # 3 NONE	OLD PN: 91090004 SEE JOB R20089 IN FILE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090005	Date Monumented 6/17/1991	Monumented By AHTD	County CHICOT	Route 65	Job Number: R20095,020535,020629
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	497,790.5939 0.0020
Easting (M)	457,304.4331 0.0020
Elevation (M)*	

Northing (SFT)	1,633,167.9735	
Easting (SFT)	1,500,339.6276	
Elevation (SFT)*		

Convergence Angle	0	20	43.2945433
Scale Factor	0.999954447		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	33	32	48.4832868
Longitude	91	22	58.5946380
Ellipsoid Height:	15.456		
Grid Northing (Meters)	497,790.8752		
Grid Easting (Meters)	457,304.6780		

Location Description

THE STATION IS ON HWY. 65 SOUTH OF McGEHEE, 0.30 MILES SOUTH OF THE JCT. OF HWY. 65 AND HWY. 165 IN THE REST AREA LAWN, 155 FEET WEST OF THE NORTH ENTRANCE, 173.55 FEET WEST OF THE CENTERLINE OF HWY. 65 AND 1.50 FEET SOUTH OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	46	40.42	132.6
MK # 2	NBC IN POWER POLE	89	73.87	242.3
MK # 3	NBC IN TELEPHONE POLE	106	51.12	167.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LAKE	Position and GPS elevation updated in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.
Ref Mon # 2 HEE HAW	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090006	Date Monumented 6/17/1991	Monumented By AHTD	County CHICOT	Route 65	Job Number: R20095,020535.020629
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	497,606.0825 0.0020
Easting (M)	457,115.9616 0.0020
Elevation (M)*	

Northing (SFT)	1,632,562.6223	
Easting (SFT)	1,499,721.2840	
Elevation (SFT)*		

Convergence Angle	0	20	39.1814548
Scale Factor	0.999954691		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	33	32	42.5334732
Longitude	91	23	5.9436528
Ellipsoid Height:	15.503		
Grid Northing (Meters)	497,606.4352		
Grid Easting (Meters)	457,116.2020		

Location Description

 FROM THE JCT. OF HWY. 65 AND HWY. 165 SOUTH OF McGEHEE, GO SOUTH ON HWY. 165 0.40 MILES TO THE REST AREA ENTRANCE. THE STATION IS 316 FEET EAST OF THE CENTERLINE OF HWY. 165 ON THE SOUTH SIDE OF THE DRIVE AND 1.2 FEET NORTH OF A WITNESS POST.

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN TRIPLE RED OAK	104		25.15	82.5
MK # 2	NBC IN PERSIMMON	31		40.33	132.3
MK # 3	NBC IN TRIPLE PECAN	20		57.64	189.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LAKE Ref Mon # 2 HEE HAW Ref Mon # 3 NONE	OLD PN: 91090006 SEE JOB R20089 IN FILE. Position and GPS elevation updated in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090007	Date Monumented 12/17/1998	Monumented By AHTD	County CHICOT	Route 65	Job Number: R20097,020612
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	474,010.1211	
Easting (M)	465,894.4590	
Elevation (M)*	36.426	
Northing (SFT)	1,555,148.2056	
Easting (SFT)	1,528,522.0709	
Elevation (SFT)*	119.507	

Convergence Angle	0	23	46.0936537
Scale Factor	0.999993088		
Elevation Adjust. Factor	0.9999942836		
Combined Adjust. Factor	0.9999873717		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 WINN RMA 1965	3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)
Ref Mon # 2 82 V 10 W	
Ref Mon # 3 LAKE	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 19 54.7965372
Longitude	91 17 31.9968132
Ellipsoid Height (M):	10.395
Geoid Height (M):	-26.076

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65, U.S. HIGHWAY 82 WEST AND STATE HIGHWAY 144 EAST, LOCATED ON THE NORTHWEST SIDE OF LAKE VILLAGE, GO NORTH ON U.S. HIGHWAY 65 FOR 0.16 KM (0.10 MI) TO THE STATION ON THE LEFT. THE STATION IS 19.40 METERS WEST OF THE CENTER OF THE SOUTHBOUND LAND OF U.S. HIGHWAY 65 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090007 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090007A	Date Monumented 12/17/1998	Monumented By AHTD	County CHICOT	Route 65	Job Number: R20097
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	474,649.2241	
Easting (M)	465,879.8010	
Elevation (M)*	36.501	
Northing (SFT)	1,557,244.9961	
Easting (SFT)	1,528,473.9804	
Elevation (SFT)*	119.754	

Convergence Angle	0	23	45.8720464
Scale Factor	0.999991870		
Elevation Adjust. Factor	0.9999942718		
Combined Adjust. Factor	0.9999861419		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	232	2.56	8.4
MK # 2	GUY POLE	283	14.91	48.9
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>WINN RMA 1965</td> </tr> <tr> <td>Ref Mon # 2</td> <td>82 V 10 W</td> </tr> <tr> <td>Ref Mon # 3</td> <td>LAKE</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	WINN RMA 1965	Ref Mon # 2	82 V 10 W	Ref Mon # 3	LAKE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)</td> </tr> </table>	Comments	3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)
Area Reference Monuments (used for Processing)											
Ref Mon # 1	WINN RMA 1965										
Ref Mon # 2	82 V 10 W										
Ref Mon # 3	LAKE										
Comments											
3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)											

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 20 15.5438916
Longitude	91 17 32.3927592
Ellipsoid Height (M):	10.416
Geoid Height (M):	-26.085

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65, U.S. HIGHWAY 82 WEST AND STATE HIGHWAY 144 EAST, LOCATED ON THE NORTHWEST SIDE OF LAKE VILLAGE, GO NORTH ON U.S. HIGHWAY 65 FOR 0.72 KM (0.45 MI) TO THE JUNCTION OF AIRPORT ROAD AND THE STATION ON THE LEFT. THE STATION IS 22.65 METERS WEST OF THE CENTER OF THE SOUTHBOUND LANE OF U.S. HIGHWAY 65, 10.69 METERS SOUTH OF THE CENTER OF AIRPORT ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090007A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090008	Date Monumented 12/17/1998	Monumented By AHTD	County CHICOT	Route 65	Job Number: R20097
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	468,711.4180	
Easting (M)	468,874.8740	
Elevation (M)*	37.585	
Northing (SFT)	1,537,764.0439	
Easting (SFT)	1,538,300.3158	
Elevation (SFT)*	123.310	

Convergence Angle	0	24	49.7656237
Scale Factor	1.000003609		
Elevation Adjust. Factor	0.9999941017		
Combined Adjust. Factor	0.9999977107		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	308	24.05	78.9
MK # 2	NONE			
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>WINN RMA 1965</td> </tr> <tr> <td>Ref Mon # 2</td> <td>82 V 10 W</td> </tr> <tr> <td>Ref Mon # 3</td> <td>LAKE</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	WINN RMA 1965	Ref Mon # 2	82 V 10 W	Ref Mon # 3	LAKE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)</td> </tr> </table>	Comments	3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)
Area Reference Monuments (used for Processing)											
Ref Mon # 1	WINN RMA 1965										
Ref Mon # 2	82 V 10 W										
Ref Mon # 3	LAKE										
Comments											
3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)											

Location Description	
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 SOUTH AND U.S. HIGHWAY 82, LOCATED IN FAIRVIEW, GO NORTHWEST ON U.S. HIGHWAYS 65 AND 82 FOR 0.97 KM (0.60 MI) TO THE STATION ON THE LEFT. THE STATION IS 19.00 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAYS 82 AND 65, 7.65 METERS NORTHWEST OF A DIRT FIELD ENTRANCE AND 1.00 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090008 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090008A	Date Monumented 12/17/1998	Monumented By AHTD	County CHICOT	Route 65	Job Number: R20097
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	469,166.9281	
Easting (M)	468,351.7920	
Elevation (M)*	37.298	
Northing (SFT)	1,539,258.4966	
Easting (SFT)	1,536,584.1709	
Elevation (SFT)*	122.369	

Convergence Angle	0	24	38.5223577
Scale Factor	1.000002673		
Elevation Adjust. Factor	0.9999941468		
Combined Adjust. Factor	0.9999968197		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	226	2.53	8.3
MK # 2	NONE			
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>WINN RMA 1965</td> </tr> <tr> <td>Ref Mon # 2</td> <td>82 V 10 W</td> </tr> <tr> <td>Ref Mon # 3</td> <td>LAKE</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	WINN RMA 1965	Ref Mon # 2	82 V 10 W	Ref Mon # 3	LAKE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)</td> </tr> </table>	Comments	3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)
Area Reference Monuments (used for Processing)											
Ref Mon # 1	WINN RMA 1965										
Ref Mon # 2	82 V 10 W										
Ref Mon # 3	LAKE										
Comments											
3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)											

Location Description	
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 SOUTH AND U.S. HIGHWAY 82, LOCATED IN FAIRVIEW, GO NORTHWEST ON U.S. HIGHWAYS 65 AND 82 FOR 1.66 KM (1.03 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.40 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAYS 65 AND 82 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090008A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>	

AZ Mark Station	090008
Geodetic Azimuth	131 27 38.51143
Grid Azimuth	131 02 59.87997

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090009	Date Monumented 12/17/1998	Monumented By AHTD	County CHICOT	Route 82	Job Number: R20098
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	467,355.9080	
Easting (M)	474,381.6610	
Elevation (M)*	36.741	
Northing (SFT)	1,533,316.8415	
Easting (SFT)	1,556,367.1661	
Elevation (SFT)*	120.540	

Convergence Angle	0	26	48.6442863
Scale Factor	1.000006486		
Elevation Adjust. Factor	0.9999942342		
Combined Adjust. Factor	1.0000007202		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing) Ref Mon # 1 WINN RMA 1965 Ref Mon # 2 82 V 10 W Ref Mon # 3 LAKE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)</td> </tr> </table>	Comments	3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)
Comments			
3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)			

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 SOUTH AND U.S. HIGHWAY 82, LOCATED IN FAIRVIEW, GO EAST ON U.S. HIGHWAY 82 FOR 4.83 (3.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.80 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090009 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

AZ Mark Station	090009A
Geodetic Azimuth	257 39 51.85581
Grid Azimuth	257 13 03.33082

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090009A	Date Monumented 12/17/1998	Monumented By AHTD	County CHICOT	Route 82	Job Number: R20098
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	467,229.8311
Easting (M)	473,825.9390
Elevation (M)*	36.629
Northing (SFT)	1,532,903.2042
Easting (SFT)	1,554,543.9349
Elevation (SFT)*	120.173

Convergence Angle	0	26	36.6051220
Scale Factor	1.000006739		
Elevation Adjust. Factor	0.9999942518		
Combined Adjust. Factor	1.0000009907		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	247	17.67	58.0
MK # 2	CENTER OF CONCRETE HEADWALL	330	8.34	27.4
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 WINN RMA 1965	3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)
Ref Mon # 2 82 V 10 W	
Ref Mon # 3 LAKE	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 16 12.8359488
Longitude	91 12 27.3437748
Ellipsoid Height (M):	10.543
Geoid Height (M):	-26.066

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 SOUTH AND U.S. HIGHWAY 82, LOCATED IN FAIRVIEW, GO EAST ON U.S. HIGHWAY 82 FOR 4.26 KM (2.65 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.19 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82, 10.47 METERS EAST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED '090009A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	090009
Geodetic Azimuth	77 39 40.055283
Grid Azimuth	77 13 03.330818

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090010	Date Monumented 12/17/1998	Monumented By AHTD	County CHICOT	Route 82	Job Number: R20098
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	469,390.9420
Easting (M)	477,489.6260
Elevation (M)*	45.609
Northing (SFT)	1,539,993.4489
Easting (SFT)	1,566,563.8813
Elevation (SFT)*	149.636

Convergence Angle	0	27	56.2146667
Scale Factor	1.000002360		
Elevation Adjust. Factor	0.9999928425		
Combined Adjust. Factor	0.9999952025		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION U.S. HIGHWAY 82 AND A LEVEE, LOCATED ON THE SOUTHWEST END OF THE GREENVILLE / LAKE VILLAGE BRIDGE OVER THE MISSISSIPPI RIVER, GO NORTHERLY ON THE LEVEE FOR 0.21 KM (0.13 MI) TO THE JUNCTION OF A NATURAL GAS PIPELINE AND THE STATION ON THE LEFT. THE STATION IS 3.8 METERS WEST OF THE CENTER OF A GRAVEL ROAD ON TOP OF THE LEVEE AND 1.08 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090010 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					090010A
MK # 2	NONE					164 19 35.51398
MK # 3	NONE					163 51 39.25799

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	WINN RMA 1965	3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)
Ref Mon # 2	82 V 10 W	
Ref Mon # 3	LAKE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090010A	Date Monumented 12/17/1998	Monumented By AHTD	County CHICOT	Route 82	Job Number: R20098
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	468,690.0030	
Easting (M)	477,692.4590	
Elevation (M)*	46.453	
Northing (SFT)	1,537,693.7848	
Easting (SFT)	1,567,229.3426	
Elevation (SFT)*	152.403	

Convergence Angle	0	28	0.4785211
Scale Factor	1.000003791		
Elevation Adjust. Factor	0.9999927101		
Combined Adjust. Factor	0.9999965011		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing) Ref Mon # 1 WINN RMA 1965 Ref Mon # 2 82 V 10 W Ref Mon # 3 LAKE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> 3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A) </td> </tr> </table>	Comments	3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)
Comments			
3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)			

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND A LEVEE, LOCATED ON THE SOUTHWEST END OF THE GREENVILLE / LAKE VILLAGE BRIDGE OVER THE MISSISSIPPI RIVER, GO SOUTHERLY ON THE LEVEE FOR 0.40 KM (0.25 MI) TO THE HIGHEST POINT OF THE LEVEE AND THE STATION ON THE LEFT. THE STATION IS 5.00 METERS EAST OF A GRAVEL ROAD ON TOP OF THE LEVEE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090010A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

AZ Mark Station	090010
Geodetic Azimuth	344 19 39.69506
Grid Azimuth	343 51 39.25798

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090011	Date Monumented 7/19/2000	Monumented By AHTD	County CHICOT	Route 160	Job Number: 002970
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	460,758.7348	
Easting (M)	452,688.9680	
Elevation (M)*		
Northing (SFT)	1,511,672.6158	
Easting (SFT)	1,485,197.0558	
Elevation (SFT)*		

Convergence Angle	0	18	58.7225559
Scale Factor	1.000020396		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LAKE	
Ref Mon # 2 82V 10W	
Ref Mon # 3 STELL	

Vertical Determined By: NONE	
Elevation Datum: NONE	
Geoid Datum:	
Latitude	33 12 47.3463252
Longitude	91 26 5.4430872
Ellipsoid Height (M):	8.053
Geoid Height (M):	-25.845

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 160, LOCATED AT CHICOT JUNCTION, GO WEST ON STATE HIGHWAY 160 FOR 16.57 KM (10.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 7.50 METERS NORTH OF THE CENTER OF STATE HIGHWAY 160 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090011 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 494.902 METERS.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090011A	Date Monumented 7/19/2000	Monumented By AHTD	County CHICOT	Route 160	Job Number: 002970
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	460,766.1122	
Easting (M)	452,194.1134	
Elevation (M)*		
Northing (SFT)	1,511,696.8198	
Easting (SFT)	1,483,573.5204	
Elevation (SFT)*		

Convergence Angle	0	18	48.0287636
Scale Factor	1.000020373		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF CMP	268	22.90	75.1
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LAKE	
Ref Mon # 2 82V 10W	
Ref Mon # 3 STELL	

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 33 12 47.6740404

Longitude 91 26 24.5496984

Ellipsoid Height (M): 7.921

Geoid Height (M): -25.844

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 160, LOCATED AT CHICOT JUNCTION, GO WEST ON STATE HIGHWAY 160 FOR 17.06 KM (10.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 27.40 METERS EAST OF A GRAVEL DRIVEWAY, 8.20 METERS NORTH OF THE CENTER OF STATE HIGHWAY 160 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090011A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 494.902 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090012	Date Monumented 7/19/2000	Monumented By AHTD	County CHICOT	Route 160	Job Number: 002970
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	460,687.1111	
Easting (M)	461,351.1196	
Elevation (M)*		
Northing (SFT)	1,511,437.6303	
Easting (SFT)	1,513,616.1316	
Elevation (SFT)*		

Convergence Angle	0	22	5.9156441
Scale Factor	1.000020671		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 160, LOCATED AT CHICOT JUNCTION, GO WEST ON STATE HIGHWAY 160 FOR 7.97 KM (4.95 MI) TO THE STATION ON THE LEFT SET ON TOP OF A LEVEE. THE STATION IS 19.55 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 160, 12.80 METERS WEST OF THE CENTER OF A GRAVEL ROAD, 5.35 METERS SOUTH OF THE CENTER OF A DIRT ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090012 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 786.368 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 LAKE</p> <p>Ref Mon # 2 82V 10W</p> <p>Ref Mon # 3 STELL</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090012A	Date Monumented 7/19/2000	Monumented By AHTD	County CHICOT	Route 160	Job Number: 002970
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	460,734.1544	
Easting (M)	460,566.1466	
Elevation (M)*		
Northing (SFT)	1,511,591.9716	
Easting (SFT)	1,511,040.7660	
Elevation (SFT)*		

Convergence Angle	0	21	48.9577793
Scale Factor	1.000020555		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	293	4.45	14.6
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LAKE	
Ref Mon # 2 82V 10W	
Ref Mon # 3 STELL	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 12 45.0314532
Longitude	91 21 1.2836160
Ellipsoid Height (M):	8.422
Geoid Height (M):	-25.844

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 160, LOCATED AT CHICOT JUNCTION, GO WEST ON STATE HIGHWAY 160 FOR 8.76 KM (5.44 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.00 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 160 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090012A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 786.368 METERS.</p>

AZ Mark Station	090012
Geodetic Azimuth	93 47 35.798918
Grid Azimuth	93 25 46.660149

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090013	Date Monumented 4/2/2001	Monumented By AHTD	County CHICOT	Route 82	Job Number: 020260,020321
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	470,583.0434	
Easting (M)	451,977.9122	
Elevation (M)*	35.913	
Northing (SFT)	1,543,904.5349	
Easting (SFT)	1,482,864.2003	
Elevation (SFT)*	117.826	

Convergence Angle	0	18	44.5129479
Scale Factor	0.999999614		
Elevation Adjust. Factor	0.9999943641		
Combined Adjust. Factor	0.9999939781		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	345	5.75	18.9
MK # 2	NONE			
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>STELL</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD MON 1</td> </tr> <tr> <td>Ref Mon # 3</td> <td>82 V 10W</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	STELL	Ref Mon # 2	AHTD MON 1	Ref Mon # 3	82 V 10W	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>old elev = 34.871 meters. New for Job 020321 is listed.</td> </tr> </table>	Comments	old elev = 34.871 meters. New for Job 020321 is listed.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	STELL										
Ref Mon # 2	AHTD MON 1										
Ref Mon # 3	82 V 10W										
Comments											
old elev = 34.871 meters. New for Job 020321 is listed.											

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 18 6.3525420

Longitude 91 26 30.8314104

Ellipsoid Height (M): 9.960

Geoid Height (M): -25.906

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 14.31 KM (8.89 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.50 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82, 12.00 METERS SOUTH OF THE CENTER OF A DIRT ROAD, 8.10 METERS WEST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090013 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 613.407 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090013A	Date Monumented 4/2/2001	Monumented By AHTD	County CHICOT	Route 82	Job Number: 020260,020321
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	470,663.6132	
Easting (M)	452,586.0084	
Elevation (M)*	35.909	
Northing (SFT)	1,544,168.8710	
Easting (SFT)	1,484,859.2626	
Elevation (SFT)*	117.810	

Convergence Angle	0	18	57.6781153
Scale Factor	0.999999460		
Elevation Adjust. Factor	0.9999943648		
Combined Adjust. Factor	0.9999938248		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing) Ref Mon # 1 STELL Ref Mon # 2 AHTD MON 1 Ref Mon # 3 82 V 10W	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>old elev = 34.867 meters. New for Job 020321 is listed.</td> </tr> </table>	Comments	old elev = 34.867 meters. New for Job 020321 is listed.
Comments			
old elev = 34.867 meters. New for Job 020321 is listed.			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 13.73 KM (8.53 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.75 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090013A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 613.407 METER.

AZ Mark Station	090013
Geodetic Azimuth	262 46 06.72567
Grid Azimuth	262 27 09.17264

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090014	Date Monumented 4/2/2001	Monumented By AHTD	County CHICOT	Route 82	Job Number: 020321
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	471,252.4697	
Easting (M)	456,981.6620	
Elevation (M)*	36.090	
Northing (SFT)	1,546,100.8110	
Easting (SFT)	1,499,280.6694	
Elevation (SFT)*	118.404	

Convergence Angle	0	20	32.8503611
Scale Factor	0.999998341		
Elevation Adjust. Factor	0.9999943364		
Combined Adjust. Factor	0.9999926774		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WEST END OF CMP	140	6.60	21.7	
MK # 2	NONE				
MK # 3	NONE				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>STELL</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD MON 1</td> </tr> <tr> <td>Ref Mon # 3</td> <td>82 V 10W</td> </tr> </table>	Ref Mon # 1	STELL	Ref Mon # 2	AHTD MON 1	Ref Mon # 3	82 V 10W	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	STELL						
Ref Mon # 2	AHTD MON 1						
Ref Mon # 3	82 V 10W						

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 18 27.1528668
Longitude	91 23 17.2648284
Ellipsoid Height (M):	10.094
Geoid Height (M):	-25.949

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 9.35 KM (5.81 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.70 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82, 8.10 METERS WEST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090014 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 576.114 METERS.

AZ Mark Station	090014A
Geodetic Azimuth	82 25 22.329142
Grid Azimuth	82 04 49.362278

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090014A	Date Monumented 4/2/2001	Monumented By AHTD	County CHICOT	Route 82	Job Number: 020321
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	471,331.8485	
Easting (M)	457,552.2783	
Elevation (M)*	36.091	
Northing (SFT)	1,546,361.2396	
Easting (SFT)	1,501,152.7664	
Elevation (SFT)*	118.409	

Convergence Angle	0	20	45.2062373
Scale Factor	0.999998191		
Elevation Adjust. Factor	0.9999943361		
Combined Adjust. Factor	0.9999925271		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	103	23.20	76.1
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 STELL	
Ref Mon # 2 AHTD MON 1	
Ref Mon # 3 82 V 10W	

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 18 29.6181036

Longitude 91 22 55.1885700

Ellipsoid Height (M): 10.095

Geoid Height (M): -25.954

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 8.79 KM (5.46 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.00 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090014A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 576.114 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090015	Date Monumented 4/2/2001	Monumented By AHTD	County CHICOT	Route 82	Job Number: 020321,020612
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 472,003.0530		Latitude 33 18 50.5368972
Easting (M) 461,819.9724		Longitude 91 20 10.0475556
Elevation (M)* 36.647		Ellipsoid Height (M): 10.589
		Geoid Height (M): -25.999

Northing (SFT) 1,548,563.3497		
Easting (SFT) 1,515,154.3594		
Elevation (SFT)* 120.233		

Convergence Angle 0 22 17.6341251		
Scale Factor 0.999996922		
Elevation Adjust. Factor 0.9999942489		
Combined Adjust. Factor 0.9999911709		

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 4.46 KM (2.77 MI) TO THE AHTD CHICOT COUNTY YARD AND THE STATION ON THE RIGHT. THE STATION IS 17.70 NORTH OF THE CENTER OF U.S. HIGHWAY 82, 5.00 METERS NORTHEAST OF THE NORTHEAST CORNER OF THE PARKING LOT AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090015 2001" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CORNER POST OF CHAIN LINK FENCE	12	4.60	15.1	AZ Mark Station 090015A
MK # 2	TELEPHONE JUNCTION BOX	36	2.80	9.2	Geodetic Azimuth 256 14 35.81329
MK # 3	WATER METER	317	5.80	19.0	Grid Azimuth 255 52 18.28526

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 STELL	
Ref Mon # 2 AHTD MON 1	
Ref Mon # 3 82 V 10W	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090015A	Date Monumented 4/2/2001	Monumented By AHTD	County CHICOT	Route 82	Job Number: 020321
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	471,871.2939	
Easting (M)	461,296.5101	
Elevation (M)*	36.422	
Northing (SFT)	1,548,131.0701	
Easting (SFT)	1,513,436.9669	
Elevation (SFT)*	119.493	

Convergence Angle	0	22	6.2896534
Scale Factor	0.999997174		
Elevation Adjust. Factor	0.9999942843		
Combined Adjust. Factor	0.9999914583		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 STELL	
Ref Mon # 2 AHTD MON 1	
Ref Mon # 3 82 V 10W	

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 18 46.3699584

Longitude 91 20 30.3167364

Ellipsoid Height (M): 10.377

Geoid Height (M): -25.992

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 5.00 KM (3.11 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.20 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82, 6.70 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090015A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 539.796 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090016	Date Monumented 1/22/2003	Monumented By AHTD	County CHICOT	Route 159	Job Number: 020382
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 444,581.3860		Latitude 33 3 59.3535492
Easting (M) 467,012.6120		Longitude 91 16 56.7379452
Elevation (M)* 41.016		Ellipsoid Height (M): 15.086
		Geoid Height (M): -25.969

Northing (SFT) 1,458,597.4306		
Easting (SFT) 1,532,190.5445		
Elevation (SFT)* 134.565		

Convergence Angle 0 24 5.8277137		
Scale Factor 1.000059972		
Elevation Adjust. Factor 0.9999935634		
Combined Adjust. Factor 1.0000535350		

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 159 AND STATE HIGHWAY 52 LOCATED ABOUT 3.54 MILES NORTH OF THE ARKANSAS / LOUISIANA STATE LINE GO NORTH ON STATE HIGHWAY 159 FOR 1.05 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.60 METERS WEST OF THE CENTER OF STATE HIGHWAY 159 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "090016 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

Location Reference Marks				
	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WATER VALVE	233	9.40	30.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD MON 1 & 480016	3 WIRE ELEVATIONS FROM COE B POINT. THIRD ORDER AS PER D.K.CARSON
Ref Mon # 2 VICKSBURG CORS	
Ref Mon # 3 WINNFIELD CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090016A	Date Monumented 1/22/2003	Monumented By AHTD	County CHICOT	Route 159	Job Number: 020382
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	444,087.7889	
Easting (M)	466,826.4210	
Elevation (M)*	40.041	
Northing (SFT)	1,456,978.0207	
Easting (SFT)	1,531,579.6829	
Elevation (SFT)*	131.366	

Convergence Angle	0	24	1.7362510
Scale Factor	1.000061270		
Elevation Adjust. Factor	0.9999937164		
Combined Adjust. Factor	1.0000549860		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	306	19.00	62.3	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	3 WIRE ELEVATIONS FROM COE B POINT. THIRD ORDER AS PER D.K.CARSON
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090017	Date Monumented 3/22/2005	Monumented By AHTD	County CHICOT	Route 82	Job Number: 020321, 020675
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	470,584.4485 0.0020
Easting (M)	451,967.9011 0.0020
Elevation (M)*	
Northing (SFT)	1,543,909.1448
Easting (SFT)	1,482,831.3555
Elevation (SFT)*	

Convergence Angle	0 18 44.2965329
Scale Factor	0.999999612
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	33	18	6.4001340
Longitude	91	26	31.2179676
Ellipsoid Height:	10.309		
Grid Northing (Meters)	470,584.4551		
Grid Easting (Meters)	451,967.9040		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	65	9.70	31.8
MK # 2	UNDERGROUND CABLE MARKER	291	25.80	84.6
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM Ref Mon # 2 ARMO Ref Mon # 3 IULM, MSGN	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> SUPERCEDED GEOID HT. IS -25.906m SUPERCEDED REF. MONUMENTS ARE GPS POINTS 020014, 090014, 090015, 020014A AND MARKS 82 V 10W & CSAL *****STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243 </td> </tr> </table>	Comments	SUPERCEDED GEOID HT. IS -25.906m SUPERCEDED REF. MONUMENTS ARE GPS POINTS 020014, 090014, 090015, 020014A AND MARKS 82 V 10W & CSAL *****STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
Comments			
SUPERCEDED GEOID HT. IS -25.906m SUPERCEDED REF. MONUMENTS ARE GPS POINTS 020014, 090014, 090015, 020014A AND MARKS 82 V 10W & CSAL *****STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	Geoid 18
Latitude	33 18 6.3999180
Longitude	91 26 31.2180792
Ellipsoid Height (M):	10.056 0.0190
Geoid Height (M):	-25.995 0.0190

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 14.31 KM (8.89 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.40 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82, 11.60 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090017 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	090017A
Geodetic Azimuth	82 21 08
Grid Azimuth	82 02 24

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090017A	Date Monumented 3/22/2005	Monumented By AHTD	County CHICOT	Route 82	Job Number: 020321
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	470,672.4021	
Easting (M)	452,596.8570	
Elevation (M)*		
Northing (SFT)	1,544,197.7059	
Easting (SFT)	1,484,894.8550	
Elevation (SFT)*		

Convergence Angle	0	18	57.9138651
Scale Factor	0.999999443		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	020014, 090014, 090015
Ref Mon # 2	090014A, 020014A
Ref Mon # 3	82 V 10W

Comments

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 33 18 9.1427940

Longitude 91 26 6.8879760

Ellipsoid Height (M): 9.858

Geoid Height (M): -25.911

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 13.73 KM (8.53 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.4 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090017A 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090018	Date Monumented 2/21/2006	Monumented By AHTD	County Chicot	Route 65	Job Number: R20089
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	474,649.2381	
Easting (M)	465,879.6750	
Elevation (M)*	36.366	
Northing (SFT)	1,557,245.0420	
Easting (SFT)	1,528,473.5671	
Elevation (SFT)*	119.312	

Convergence Angle	0	23	45.8693223
Scale Factor	0.999991870		
Elevation Adjust. Factor	0.9999942930		
Combined Adjust. Factor	0.9999861630		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone box	232	2.50	8.2
MK # 2	Guy pole	283	14.91	48.9
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>82V 10 W</td> </tr> <tr> <td>Ref Mon # 2</td> <td>Lake</td> </tr> <tr> <td>Ref Mon # 3</td> <td>090007, 090008, 090009, 090010</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	82V 10 W	Ref Mon # 2	Lake	Ref Mon # 3	090007, 090008, 090009, 090010	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)</td> </tr> </table>	Comments	3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)
Area Reference Monuments (used for Processing)											
Ref Mon # 1	82V 10 W										
Ref Mon # 2	Lake										
Ref Mon # 3	090007, 090008, 090009, 090010										
Comments											
3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)											

Location Description
<p>To reach the station from the junction of highways 65,82 and 144 in Lake Village, go northeasterly on Hwy-65 for 0.45 miles to the station on the left. 74.30 feet west of the center of Hwy-65, 35.07 feet south of the center of the airport road and 1.65 fe</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090019	Date Monumented 2/21/2006	Monumented By AHTD	County Chicot	Route 65	Job Number: R20089
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	469,193.4130	
Easting (M)	468,365.4560	
Elevation (M)*	36.539	
Northing (SFT)	1,539,345.3892	
Easting (SFT)	1,536,629.0002	
Elevation (SFT)*	119.878	

Convergence Angle	0	24	38.8220217
Scale Factor	1.000002619		
Elevation Adjust. Factor	0.9999942659		
Combined Adjust. Factor	0.9999968849		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	336	15.84	52.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 82V 10 W, 090007 Ref Mon # 2 Lake, 090008,090009 Ref Mon # 3 090009A, 090010	Comments 3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)
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Location Description	
To reach the station from the junction of highways 65 and 82 in Fairview just south of Lake Village, go northwest on Hwy-65 for 1.03 miles to the station on the right. 40.38 feet northeast of the center of Hwy-65 and 1.65 feet southwest of a witness post	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 17 17.8909476
Longitude	91 15 57.7869768
Ellipsoid Height (M):	10.520
Geoid Height (M):	-26.019

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090020	Date Monumented 2/21/2006	Monumented By AHTD	County Chicot	Route 82	Job Number: R20089
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	468,688.6861	
Easting (M)	477,683.0720	
Elevation (M)*	46.095	
Northing (SFT)	1,537,689.4643	
Easting (SFT)	1,567,198.5454	
Elevation (SFT)*	151.230	

Convergence Angle	0	28	0.2752594
Scale Factor	1.000003793		
Elevation Adjust. Factor	0.9999927662		
Combined Adjust. Factor	0.9999965592		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	None			
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090021	Date Monumented 10/3/2011	Monumented By AHTD	County Chicot	Route 65	Job Number: 020535
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Zone Arkansas South	Zone Code 302		
Horizontal Datum			
Northing (M)	491,294.8700		
Easting (M)	460,456.9719		
Elevation (M)*			
Northing (SFT)	1,611,856.5860		
Easting (SFT)	1,510,682.5820		
Elevation (SFT)*			

Convergence Angle	0	21	50.7955886
Scale Factor	0.999963628		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	opower pole	65	7.62	25.0	AZ Mark Station
MK # 2	intersections of two farm roads	125	7.31	24.0	Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 150px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090022	Date Monumented 10/3/2011	Monumented By AHTD	County Chicot	Route 165	Job Number: 020535
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Zone Arkansas South	Zone Code 302		
Horizontal Datum			
Northing (M)	493,281.1114		
Easting (M)	452,520.8562		
Elevation (M)*			
Northing (SFT)	1,618,373.1130		
Easting (SFT)	1,484,645.5090		
Elevation (SFT)*			

Convergence Angle	0	18	58.9705477
Scale Factor	0.999960651		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	nearest rail	280	18.59	61.0	
MK # 2	cmp	190	10.36	34.0	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 150px;"></div>
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Vertical Determined By:

Elevation Datum:

Geoid Datum:

Latitude 33 30 23.0000000

Longitude 91 26 4.9999999

Ellipsoid Height (M):

Geoid Height (M):

Location Description

This station is set in the north west corner of the intersection of highway 208 and 165. The station is a standard alum. cap stamped(090022 2011) and is set on a 4 foot 5/8" rebar. It is 44' west of the center line of highway 165 and 29' north of a witness post. Lat.33.3023 Lon.091.2605

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090022A	Date Monumented 10/3/2011	Monumented By AHTD	County Chicot	Route 165	Job Number: 020535
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<table style="width: 100%;"> <tr> <td style="width: 30%;">Zone</td> <td style="width: 70%;">Zone Code</td> </tr> <tr> <td>Arkansas South</td> <td>302</td> </tr> </table> <table style="width: 100%;"> <tr> <td style="width: 30%;">Horizontal Datum</td> <td style="width: 70%;"></td> </tr> </table> <table style="width: 100%;"> <tr> <td style="width: 30%;">Northing (M)</td> <td style="width: 30%;">492,787.7622</td> <td style="width: 40%;"></td> </tr> <tr> <td>Easting (M)</td> <td>452,446.1485</td> <td></td> </tr> <tr> <td>Elevation (M)*</td> <td></td> <td></td> </tr> </table> <table style="width: 100%;"> <tr> <td style="width: 30%;">Northing (SFT)</td> <td style="width: 30%;">1,616,754.5165</td> <td style="width: 40%;"></td> </tr> <tr> <td>Easting (SFT)</td> <td>1,484,400.4055</td> <td></td> </tr> <tr> <td>Elevation (SFT)*</td> <td></td> <td></td> </tr> </table> <table style="width: 100%;"> <tr> <td style="width: 30%;">Convergence Angle</td> <td style="width: 10%;">0</td> <td style="width: 10%;">18</td> <td style="width: 50%;">57.2914756</td> </tr> <tr> <td>Scale Factor</td> <td colspan="3">0.999961363</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td colspan="3"></td> </tr> <tr> <td>Combined Adjust. Factor</td> <td colspan="3"></td> </tr> </table>	Zone	Zone Code	Arkansas South	302	Horizontal Datum		Northing (M)	492,787.7622		Easting (M)	452,446.1485		Elevation (M)*			Northing (SFT)	1,616,754.5165		Easting (SFT)	1,484,400.4055		Elevation (SFT)*			Convergence Angle	0	18	57.2914756	Scale Factor	0.999961363			Elevation Adjust. Factor				Combined Adjust. Factor				<table style="width: 100%;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td style="width: 40%;"></td> </tr> <tr> <td>Elevation Datum:</td> <td></td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td>33 30 6.9999998</td> </tr> <tr> <td>Longitude</td> <td>91 26 8.0000002</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Location Description</th> </tr> <tr> <td> <p>Starting at the intersection of highway 208 and 165 go south on 165 for 0.3 miles to the station on the left. The station is a standard alum. cap stamped(090022A 2011) and is set on a 4 foot 5/8" rebar. It is 24' east of the center line of 165 and is 2' west of a witness post. Lat.33.3007 Lon.091.2608</p> </td> </tr> </table>	Vertical Determined By:		Elevation Datum:		Geoid Datum:		Latitude	33 30 6.9999998	Longitude	91 26 8.0000002	Ellipsoid Height (M):		Geoid Height (M):		Location Description	<p>Starting at the intersection of highway 208 and 165 go south on 165 for 0.3 miles to the station on the left. The station is a standard alum. cap stamped(090022A 2011) and is set on a 4 foot 5/8" rebar. It is 24' east of the center line of 165 and is 2' west of a witness post. Lat.33.3007 Lon.091.2608</p>
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Location Reference Marks																									
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Area Reference Monuments (used for Processing)										
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Ref Mon # 2										
Ref Mon # 3										
Comments										

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090023	Date Monumented 	Monumented By AHTD	County Chicot	Route 144	Job Number: 020043
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	479,420.9481	
Easting (M)	471,813.0047	
Elevation (M)*	37.193	
Northing (SFT)	1,572,900.2272	
Easting (SFT)	1,547,939.8329	
Elevation (SFT)*	122.025	

Convergence Angle	0	25	55.0615157
Scale Factor	0.999983173		
Elevation Adjust. Factor	0.9999941632		
Combined Adjust. Factor	0.9999773363		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	East of 18"cmp	245	22.25	73.0	
MK # 2	north of center line of highway 144	160	10.67	35.0	
MK # 3	north west of combo pole	110	32.92	108.0	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN FROM USGS 3RD ORDER BM "1 LMT 1977" BY GARVER DURING JOB 020043 IN MARCH 2012.</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN FROM USGS 3RD ORDER BM "1 LMT 1977" BY GARVER DURING JOB 020043 IN MARCH 2012.
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 090023A	Date Monumented	Monumented By AHTD	County Chicot	Route 144	Job Number: 020043
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	479,479.4434	
Easting (M)	472,317.5167	
Elevation (M)*	36.542	
Northing (SFT)	1,573,092.1406	
Easting (SFT)	1,549,595.0527	
Elevation (SFT)*	119.890	

Convergence Angle	0	26	5.9955772
Scale Factor	0.999983075		
Elevation Adjust. Factor	0.9999942653		
Combined Adjust. Factor	0.9999773404		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	North east of 18" cmp	218	1.83	6.0
MK # 2	north of the center line of highway 144	182	10.06	33.0
MK # 3	east of telephone box	275	20.73	68.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN FROM USGS 3RD ORDER BM "1 LMT 1977" BY GARVER DURING JOB 020043 IN MARCH 2012.</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN FROM USGS 3RD ORDER BM "1 LMT 1977" BY GARVER DURING JOB 020043 IN MARCH 2012.
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 090024	Date Monumented 10/9/2018	Monumented By ARDOT	County CHICOT	Route 35	Job Number: 020629
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	497,948.2760	
Easting (M)	470,720.7671	
Elevation (M)*		
Northing (SFT)	1,633,685.3022	
Easting (SFT)	1,544,356.3834	
Elevation (SFT)*		

Convergence Angle	0	25	34.3951657
Scale Factor	0.999954358		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	313	30.17	99.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARPB
Ref Mon # 2	ARMO
Ref Mon # 3	MSGN

Comments
Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090024A	Date Monumented 10/9/2018	Monumented By ARDOT	County CHICOT	Route 35	Job Number: 020629
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	498,375.6339	
Easting (M)	470,477.7327	
Elevation (M)*		
Northing (SFT)	1,635,087.3922	
Easting (SFT)	1,543,559.0280	
Elevation (SFT)*		

Convergence Angle	0	25	29.1910967
Scale Factor	0.999953790		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE	67	20.42	67.0	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPB Ref Mon # 2 ARMO Ref Mon # 3 MSGN	Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12B
Latitude	33 33 4.5898920
Longitude	91 14 27.7924920
Ellipsoid Height (M):	15.954
Geoid Height (M):	-26.448

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 159N, 208S AND 35E, IN HALLEY, GO EAST ON HIGHWAY 35 FOR 6.55 MILES TO THE STATION MARK ON THE LEFT, WEST 21.7' OF THE C/L OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2" CAP STAMPED "090024A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090025	Date Monumented 1/26/2021	Monumented By ARDOT	County CHICOT	Route US-82	Job Number: 020675
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	470,282.5489	0.0020	
Easting (M)	450,381.1229	0.0020	
Elevation (M)*			
Northing (SFT)	1,542,918.6625		
Easting (SFT)	1,477,625.4007		
Elevation (SFT)*			

Convergence Angle	0	18	9.9336073
Scale Factor	1.000000198		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	240	17.68	58.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
Ref Mon # 2 ARMO	
Ref Mon # 3 IULM, MSGN	

Location Description

090025 TO REACH THE STATION MARK FROM THE JCT OF US-82 & US-165 IN MONTROSE, GO EAST ON US-82 2.0 MILES TO RUDY MCGEHEE RD. GO SOUTH ON RUDY MCGEHEE RD 0.05 MILES TO STATION ON LEFT. 22' EAST OF C/L RUDY MCGEHEE RD. 35' NORTH OF A DRIVEWAY. THE MARK IS A STANDARD 2½" CAP STAMPED "090025 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 090025A	Date Monumented 1/26/2021	Monumented By ARDOT	County CHICOT	Route US-82	Job Number: 020675
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	469,860.6795	0.0020	
Easting (M)	450,373.4053	0.0020	
Elevation (M)*			
Northing (SFT)	1,541,534.5793		
Easting (SFT)	1,477,600.0806		
Elevation (SFT)*			

Convergence Angle	0	18	9.7184335
Scale Factor	1.000001044		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	36" CUS		210		14.00	45.9
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARMO Ref Mon # 3 IULM, MSGN	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090026	Date Monumented 1/26/2021	Monumented By ARDOT	County CHICOT	Route US-82	Job Number: 020675
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	470,672.3275	0.0020	
Easting (M)	452,596.9060	0.0020	
Elevation (M)*			
Northing (SFT)	1,544,197.4611		
Easting (SFT)	1,484,895.0158		
Elevation (SFT)*			

Convergence Angle	0	18	57.9149169
Scale Factor	0.999999443		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARMO Ref Mon # 3 IULM, MSGN	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	33 18 9.1403640
Longitude	91 26 6.8860968
Ellipsoid Height (M):	9.499 0.0190
Geoid Height (M):	-26.001 0.0190

Location Description
090026 TO REACH THE STATION MARK FROM THE JCT OF US-82 & SR-293 WEST OF LAKE VILLAGE, GO WEST ON US-82 1.6 MILES TO STATION ON RIGHT. 60' EAST OF C/L US-82. THE MARK IS A STANDARD 2½" CAP STAMPED "090026 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090027	Date Monumented 1/26/2021	Monumented By ARDOT	County CHICOT	Route SR-293	Job Number: 020675
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	471,680.6470	0.0020	
Easting (M)	455,131.8770	0.0020	
Elevation (M)*			
Northing (SFT)	1,547,505.5894		
Easting (SFT)	1,493,211.8331		
Elevation (SFT)*			

Convergence Angle	0	19	52.8830549
Scale Factor	0.999997475		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	160	13.11	43.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
Ref Mon # 2 ARMO	
Ref Mon # 3 IULM, MSGN	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	33 18 41.4038124
Longitude	91 24 28.6744608
Ellipsoid Height (M):	9.747 0.0180
Geoid Height (M):	-26.029 0.0180

Location Description
090027 TO REACH THE STATION MARK FROM THE JCT OF US-82 & SR-293 WEST OF LAKE VILLAGE, GO NORTH ON SR-293 0.4 MILES TO STATION ON RIGHT. 23' EAST OF C/L SR-293. 22' NORTH OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "090027 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090027A	Date Monumented 1/26/2021	Monumented By ARDOT	County CHICOT	Route SR-293	Job Number: 020675
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	471,183.8970	0.0020			
Easting (M)	455,146.4846	0.0020			
Elevation (M)*					
Northing (SFT)	1,545,875.8354				
Easting (SFT)	1,493,259.7582				
Elevation (SFT)*					

Convergence Angle	0	19	53.1369387
Scale Factor	0.999998456		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	0	29.26	96.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
Ref Mon # 2 ARMO	
Ref Mon # 3 IULM, MSGN	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	33 18 25.2774180
Longitude	91 24 28.2208464
Ellipsoid Height (M):	9.442 0.0180
Geoid Height (M):	-26.026 0.0180

Location Description
090027A TO REACH THE STATION MARK FROM THE JCT OF US-82 & SR-293 WEST OF LAKE VILLAGE, GO NORTH ON SR-293 0.1 MILES TO STATION ON RIGHT. 39' EAST OF C/L SR-293. 38' WEST OF A LEVEE ROAD. THE MARK IS A STANDARD 2½" CAP STAMPED "090027A 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090028	Date Monumented 1/26/2021	Monumented By ARDOT	County CHICOT	Route US-82	Job Number: 020675
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	472,176.7282	0.0020	
Easting (M)	463,606.3289	0.0020	
Elevation (M)*			
Northing (SFT)	1,549,133.1491		
Easting (SFT)	1,521,015.0974		
Elevation (SFT)*			

Convergence Angle	0	22	56.3104855
Scale Factor	0.999996605		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	290	2.13	7.0
MK # 2	WELL HEAD	350	4.26	14.0
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARMO</td> </tr> <tr> <td>Ref Mon # 3</td> <td>IULM, MSGN</td> </tr> </table>	Ref Mon # 1	ARCM	Ref Mon # 2	ARMO	Ref Mon # 3	IULM, MSGN	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243 </td> </tr> </table>	Comments	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
Ref Mon # 1	ARCM								
Ref Mon # 2	ARMO								
Ref Mon # 3	IULM, MSGN								
Comments									
STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243									

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 33 18 55.7926128

Longitude 91 19 0.9444576

Ellipsoid Height (M): 11.286 0.0180

Geoid Height (M): -26.118 0.0180

Location Description

090028 TO REACH THE STATION MARK FROM THE JCT OF US-82 & US-65 IN LAKE VILLAGE, GO WEST ON US-82 1.5 MILES TO REGINELLI ROAD. GO SOUTH ON REGINELLI ROAD 0.4 MILES TO STATION ON LEFT. 26' EAST OF C/L REGINELLI ROAD. 22' NORTH OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/4" CAP STAMPED "090028 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090028A	Date Monumented 1/26/2021	Monumented By ARDOT	County CHICOT	Route US-82	Job Number: 020675
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	472,648.6973 0.0020
Easting (M)	463,679.1986 0.0020
Elevation (M)*	

Northing (SFT)	1,550,681.6011	
Easting (SFT)	1,521,254.1707	
Elevation (SFT)*		

Convergence Angle	0	22	57.9554126
Scale Factor	0.999995685		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

090028A TO REACH THE STATION MARK FROM THE JCT OF US-82 & US-65 IN LAKE VILLAGE, GO WEST ON US-82 1.5 MILES TO REGINELLI ROAD. GO SOUTH ON REGINELLI ROAD 0.1 MILES TO STATION ON LEFT. 11' EAST OF C/L REGINELLI ROAD. AT THE EDGE OF A CULTIVATED FIELD. THE MARK IS A STANDARD 2½" CAP STAMPED "090028A 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description	Azimuth	Distance	
		Meters Feet	
MK # 1			
MK # 2			
MK # 3			

AZ Mark Station	090028
Geodetic Azimuth	
Grid Azimuth	

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM</p> <p>Ref Mon # 2 ARMO</p> <p>Ref Mon # 3 IULM, MSGN</p>	<p style="text-align: center; margin: 0;">Comments</p> <p>STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090029	Date Monumented 1/26/2021	Monumented By ARDOT	County CHICOT	Route US-65	Job Number: 020675
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	474,109.3332	0.0020	
Easting (M)	465,935.2121	0.0020	
Elevation (M)*			
Northing (SFT)	1,555,473.7040		
Easting (SFT)	1,528,655.7750		
Elevation (SFT)*			

Convergence Angle	0	23	46.9904615
Scale Factor	0.999992899		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
090029 TO REACH THE STATION MARK FROM THE JCT OF US-82 & US-65 IN LAKE VILLAGE, GO NORTH ON US-65 0.2 MILES TO STATION ON LEFT. 35' EAST OF C/L NORTHBOUND US-65. 14' NORTH OF A NORTH END OF A HEADWALL. 18' SOUTH OF A FIELD ENTRANCE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "090029 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						090029A
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
Ref Mon # 2 ARMO	
Ref Mon # 3 IULM, MSGN	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090029A	Date Monumented 1/26/2021	Monumented By ARDOT	County CHICOT	Route US-65	Job Number: 020675
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	474,634.5741	0.0020	
Easting (M)	465,891.4752	0.0020	
Elevation (M)*			
Northing (SFT)	1,557,196.9319		
Easting (SFT)	1,528,512.2816		
Elevation (SFT)*			

Convergence Angle	0	23	46.1225169
Scale Factor	0.999991898		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	330	19.20	63.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
Ref Mon # 2 ARMO	
Ref Mon # 3 IULM, MSGN	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	33 20 15.0657612
Longitude	91 17 31.9452432
Ellipsoid Height (M):	10.184 0.0170
Geoid Height (M):	-26.186 0.0170

Location Description
090029A TO REACH THE STATION MARK FROM THE JCT OF US-82 & US-65 IN LAKE VILLAGE, GO NORTH ON US-65 0.5 MILES TO STATION ON LEFT. 37' WEST OF C/L SOUTHBOUND US-65. 84' SOUTH OF AIRPORT ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "090029A 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090030	Date Monumented 1/27/2021	Monumented By ARDOT	County CHICOT	Route US-82	Job Number: 020675
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	470,811.6421	0.0020	
Easting (M)	458,427.0637	0.0020	
Elevation (M)*			
Northing (SFT)	1,544,654.5291		
Easting (SFT)	1,504,022.7915		
Elevation (SFT)*			

Convergence Angle	0	21	4.0637271
Scale Factor	0.999999233		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
Ref Mon # 2 ARMO	
Ref Mon # 3 IULM, MSGN	

Vertical Determined By:	Level - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	33 18 12.5604180
Longitude	91 22 21.4958712
Ellipsoid Height (M):	9.443 0.0190
Geoid Height (M):	-26.050 0.0190

Location Description
<p>090030 TO REACH THE STATION MARK FROM THE JCT OF US-82 & SR-293 WEST OF LAKE VILLAGE, GO EAST ON US-82 2.0 MILES TO BILL YOUNG ROAD. GO SOUTH ON BILL YOUNG ROAD 0.4 MILES TO STATION ON RIGHT. 23' WEST OF C/L BILL YOUNG ROAD. 24' NORTH OF A DIRT FIELD ENTRANCE. THE MARK IS A STANDARD 2½" CAP STAMPED "090030 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090030A	Date Monumented 1/27/2021	Monumented By ARDOT	County CHICOT	Route US-82	Job Number: 020675
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	471,290.2923	0.0020	
Easting (M)	458,421.3793	0.0020	
Elevation (M)*			
Northing (SFT)	1,546,224.9007		
Easting (SFT)	1,504,004.1419		
Elevation (SFT)*			

Convergence Angle	0	21	4.0042073
Scale Factor	0.999998284		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARMO Ref Mon # 3 IULM, MSGN	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 33 18 28.0976796

Longitude 91 22 21.6022152

Ellipsoid Height (M): 9.045 0.0190

Geoid Height (M): -26.055 0.0190

Location Description

090030A TO REACH THE STATION MARK FROM THE JCT OF US-82 & SR-293 WEST OF LAKE VILLAGE, GO EAST ON US-82 2.0 MILES TO BILL YOUNG ROAD. GO SOUTH ON BILL YOUNG ROAD 0.1 MILES TO STATION ON RIGHT. 19' WEST OF C/L BILL YOUNG ROAD. 45' NORTH OF A GRAVEL DRIVE. 76' OF A POWER POLE. THE MARK IS A STANDARD 2½" CAP STAMPED "090030A 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090031	Date Monumented 1/27/2021	Monumented By ARDOT	County CHICOT	Route US-82	Job Number: 020675
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	471,598.1547	0.0020	
Easting (M)	462,393.7910	0.0020	
Elevation (M)*			
Northing (SFT)	1,547,234.9459		
Easting (SFT)	1,517,036.9626		
Elevation (SFT)*			

Convergence Angle	0	22	29.9924736
Scale Factor	0.999997726		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARMO</td> </tr> <tr> <td>Ref Mon # 3</td> <td>IULM, MSGN</td> </tr> </table>	Ref Mon # 1	ARCM	Ref Mon # 2	ARMO	Ref Mon # 3	IULM, MSGN	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243 </td> </tr> </table>	Comments	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243
Ref Mon # 1	ARCM								
Ref Mon # 2	ARMO								
Ref Mon # 3	IULM, MSGN								
Comments									
STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243									

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 33 18 37.2733056

Longitude 91 19 47.9668800

Ellipsoid Height (M): 9.699 0.0190

Geoid Height (M): -26.096 0.0190

Location Description

090031 TO REACH THE STATION MARK FROM THE JCT OF US-82 & SR-293 WEST OF LAKE VILLAGE, GO EAST ON US-82 4.2 MILES TO DOC SEALE ROAD. GO SOUTH ON DOC SEALE ROAD 0.4 MILES TO STATION ON RIGHT. 43' SOUTHWEST OF C/L DOC SEALE ROAD. 23' EAST OF A FIELD ROAD. 101' SOUTH OF A POWER POLE. THE MARK IS A STANDARD 2½" CAP STAMPED "090031 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090031A	Date Monumented 1/27/2021	Monumented By ARDOT	County CHICOT	Route US-82	Job Number: 020675
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	471,935.0206	0.0020	
Easting (M)	461,990.5228	0.0020	
Elevation (M)*			
Northing (SFT)	1,548,340.1468		
Easting (SFT)	1,515,713.9069		
Elevation (SFT)*			

Convergence Angle	0	22	21.3147444
Scale Factor	0.999997058		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARMO Ref Mon # 3 IULM, MSGN	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	33 18 48.2927400
Longitude	91 20 3.4713888
Ellipsoid Height (M):	10.469 0.0180
Geoid Height (M):	-26.097 0.0180

Location Description
090031A TO REACH THE STATION MARK FROM THE JCT OF US-82 & SR-293 WEST OF LAKE VILLAGE, GO EAST ON US-82 4.2 MILES TO DOC SEALE ROAD. GO SOUTH ON DOC SEALE ROAD 0.1 MILES TO STATION ON RIGHT. 23' WEST OF C/L DOC SEALE ROAD. 58' SOUTH OF A POWER POLE. 92' NORTH OF A POWER POLE. THE MARK IS A STANDARD 2½" CAP STAMPED "090031A 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	090031
Geodetic Azimuth	
Grid Azimuth	

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 0-9-8-91	Date Monumented 1/1/1991	Monumented By MY CORPS OF	County CRAIGHEAD	Route 18	Job Number: 100308
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 173,999.2310		Latitude 35 53 24.3488040
Easting (M) 551,305.8760		Longitude 90 19 26.5199232
Elevation (M)* 72.419		Ellipsoid Height (M): 44.354
		Geoid Height (M): -28.016

Northing (SFT) 570,862.4770	Easting (SFT) 1,808,742.6948	Location Description
Elevation (SFT)* 237.595		<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 139 IN MONETTE, GO EAST 1.07 MILES TO THE STATION ON THE LEFT. THE STATION IS 7.50 METERS NORTH OF THE CENTERLINE OF HIGHWAY 18, 0.80 METERS FROM WEST END OF BRIDGE, AND 0.49 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STARDARD US ARMY CORPS OF ENGINEERS BENCH MARK DISC STAMPED 0-9-8-91 SET IN TOP OF BRIDGE ABUTMENT.</p>
Convergence Angle 0 58 30.8767957		
Scale Factor 0.999950140		
Elevation Adjust. Factor 0.9999886352		
Combined Adjust. Factor 0.9999387758		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WATER VALVE	320	6.00	19.7	160023
MK # 2	AHTD BENCH MARK	10	0.40	1.3	270 36 49
MK # 3	WEST END GUARD RAIL	280	23.33	76.5	269 38 18

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD PAR 1	Elevation based on levels by consultant for Job# 100567
Ref Mon # 2 VILLPORT	
Ref Mon # 3 MANIPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 10 DWB 1967	Date Monumented 9/13/1995	Monumented By USC&GS	County CRAWFORD	Route 59	Job Number: 040226
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	129,909.3420	
Easting (M)	186,218.2140	
Elevation (M)*	170.011	
Northing (SFT)	426,210.8995	
Easting (SFT)	610,950.9238	
Elevation (SFT)*	557.778	

Convergence Angle	-1	22	15.6072953
Scale Factor	0.999937543		
Elevation Adjust. Factor	0.9999733204		
Combined Adjust. Factor	0.9999108651		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER OF ROCK BUILDING	240	12.65	41.5
MK # 2	COMINATION POLE	25	1.70	5.6
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>92170001</td> </tr> <tr> <td>Ref Mon # 2</td> <td>FORT SMITH GIS NO. 103</td> </tr> <tr> <td>Ref Mon # 3</td> <td>GRASSY OFFSET</td> </tr> </table>	Ref Mon # 1	92170001	Ref Mon # 2	FORT SMITH GIS NO. 103	Ref Mon # 3	GRASSY OFFSET	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	92170001							
Ref Mon # 2	FORT SMITH GIS NO. 103							
Ref Mon # 3	GRASSY OFFSET							
Comments								

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 28 52.5036216
Longitude	94 21 21.8949840
Ellipsoid Height (M):	139.925
Geoid Height (M):	-30.086

Location Description
FROM THE JCT. OF HWY. 59 AND I-40 IN THE TOWN OF VAN BUREN, GO NORTH ON HWY. 59 FOR 2.06 KM (1.28 MILES) TO THE STATION ON THE LEFT. THE STATION IS 58.0 METERS NORTH NORTHWEST OF OLD UNION TOWN ROAD, 12.96 METERS WEST OF THE CENTER OF HWY. 59 AND 1.5 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD TABLET SET IN A CONCRETE POST PROJECTING 4" AND STAMPED "10 DWB 1967 558". THE STATION IS A USC&GS BENCH MARK.

AZ Mark Station	10 DWB A
Geodetic Azimuth	177 00 01.7038
Grid Azimuth	178 22 17.3106

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 10 DWB AZ	Date Monumented 9/13/1995	Monumented By AHTD	County CRAWFORD	Route 59	Job Number: 040226
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	129,583.3581				
Easting (M)	186,227.4820				
Elevation (M)*	186.203				
Northing (SFT)	425,141.4007				
Easting (SFT)	610,981.3305				
Elevation (SFT)*	610.901				

Convergence Angle	-1	22	15.2133675
Scale Factor	0.999937636		
Elevation Adjust. Factor	0.9999707795		
Combined Adjust. Factor	0.9999084174		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	4" STEEL GATE POST	160		12.29	40.3
MK # 2	12" PINE TREE	30		22.90	75.1
MK # 3	NONE				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. "10 DWB 1967".
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100001	Date Monumented 8/1/1994	Monumented By AHTD	County CLARK	Route 8	Job Number: 070063
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	576,676.0259	
Easting (M)	268,562.6780	
Elevation (M)*	175.043	
Northing (SFT)	1,891,977.9283	
Easting (SFT)	881,109.3861	
Elevation (SFT)*	574.287	

Convergence Angle	0	47	55.4138205
Scale Factor	0.999925610		
Elevation Adjust. Factor	0.9999725308		
Combined Adjust. Factor	0.9998981428		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	196	18.20	59.7
MK # 2	24" METAL PIPE WITH HEADWALL	114	35.00	114.8
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARKAPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>PLEASANT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	ARKAPORT	Ref Mon # 2	PLEASANT	Ref Mon # 3	NONE	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARKAPORT							
Ref Mon # 2	PLEASANT							
Ref Mon # 3	NONE							
Comments								

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 15 4.8073824
Longitude	93 25 37.5052116
Ellipsoid Height (M):	147.097
Geoid Height (M):	-27.946

Location Description
FROM THE JCT. OF HWY. 8 AND HWY. 84 IN THE CENTER OF THE TOWN OF AMITY, GO SOUTHEAST ON HWY. 8 FOR 3.541 KM (2.20 MILES) TO THE STATION ON THE LEFT. THE STATION IS 8.40 METERS NORTH OF THE CENTERLINE OF HWY. 8 AND 1.15 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "100001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

AZ Mark Station	100001A
Geodetic Azimuth	291 00 15.5305
Grid Azimuth	291 48 10.93034

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100001A	Date Monumented 8/1/1994	Monumented By AHTD	County CLARK	Route 8	Job Number: 070063
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1986)
Northing (M)	576,766.7769
Easting (M)	268,335.8200
Elevation (M)*	177.101
Northing (SFT)	1,892,275.6672
Easting (SFT)	880,365.1028
Elevation (SFT)*	581.039

Convergence Angle	0	48	0.4037997
Scale Factor	0.999925662		
Elevation Adjust. Factor	0.9999722079		
Combined Adjust. Factor	0.9998978719		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	24" PINE TREE	195	23.60	77.4
MK # 2	POWER POLE	285	7.05	23.1
MK # 3	TELEPHONE JUNCTION BOX	290	8.60	28.2

Area Reference Monuments (used for Processing) Ref Mon # 1 ARKAPORT Ref Mon # 2 PLEASANT Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 15 7.6498020
Longitude	93 25 46.4208132
Ellipsoid Height (M):	149.151
Geoid Height (M):	-27.950

Location Description
FROM THE JCT. OF HWY. 8 AND HWY. 84 IN THE CENTER OF THE TOWN OF AMITY, GO SOUTHEAST ON HWY. 8 FOR 3.299 KM (2.05 MILES) TO THE STATION ON THE LEFT. THE STATION IS 8.10 METERS NORTH OF THE CENTERLINE OF HWY. 8 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

AZ Mark Station	100001
Geodetic Azimuth	111 00 10.51254
Grid Azimuth	111 48 10.93034

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100003	Date Monumented 9/29/1997	Monumented By AHTD	County CLARK	Route 8	Job Number: 070064
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 571,879.7250		Latitude 34 12 33.2617140
Easting (M) 277,988.6380		Longitude 93 19 26.6896776
Elevation (M)* 174.930		Ellipsoid Height (M): 147.174
		Geoid Height (M): -27.729

Northing (SFT) 1,876,242.0644	Easting (SFT) 912,034.3898	Location Description
Elevation (SFT)* 573.916		<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 53 SOUTH, LOCATED ABOUT 20.92 KM (13.00 MI) WEST OF ARKADELPHIA, GO WEST ON STATE HIGHWAY 8 FOR 4.51 KM (2.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.406 METERS EAST-NORTHEAST OF THE CENTER OF STATE HIGHWAY 8 AND 0.71 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100003 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Convergence Angle 0 44 27.8718196		
Scale Factor 0.999923107		
Elevation Adjust. Factor 0.9999725485		
Combined Adjust. Factor 0.9998956576		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE R/W MARKER	75	0.82	2.7
MK # 2	CONCRETE R/W MARKER	254	23.21	76.1
MK # 3	NBC IN 0.26 METER GUM TREE	294	28.45	93.4

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 FRANKLIN 2</p> <p>Ref Mon # 2 C 59</p> <p>Ref Mon # 3 100002</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100003A	Date Monumented 9/29/1929	Monumented By AHTD	County CLARK	Route 8	Job Number: 070064
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	571,477.5190				
Easting (M)	278,213.2480				
Elevation (M)*	161.910				
Northing (SFT)	1,874,922.4936				
Easting (SFT)	912,771.2978				
Elevation (SFT)*	531.200				

Convergence Angle	0	44	22.8475652
Scale Factor	0.999922918		
Elevation Adjust. Factor	0.9999745917		
Combined Adjust. Factor	0.9998975116		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 0.25 METER PINE	203	25.13	82.4
MK # 2	NBC IN 0.25 METER WHITE OAK	245	27.92	91.6
MK # 3	NBC IN 0.28 METER RED OAK	265	35.48	116.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 FRANKLIN 2	Elevation by 3 wire run on 12/16/97 by S5113
Ref Mon # 2 C 59	
Ref Mon # 3 100002	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100004	Date Monumented 9/29/1997	Monumented By AHTD	County CLARK	Route 53	Job Number: 070064
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	568,535.2209	
Easting (M)	281,814.9060	
Elevation (M)*	168.456	
Northing (SFT)	1,865,269.3039	
Easting (SFT)	924,587.7374	
Elevation (SFT)*	552.676	

Convergence Angle	0	43	3.3005847
Scale Factor	0.999921664		
Elevation Adjust. Factor	0.9999735645		
Combined Adjust. Factor	0.9998952305		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W NAIL	294	4.94	16.2
MK # 2	SOUTH GATE POST (STEEL)	79	63.94	209.8
MK # 3	NORTH GATE POST (STEEL)	217	75.30	247.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 FRANKLIN 2	Elevation by 3 wire run on 12/16/97 by S5113
Ref Mon # 2 C 59	
Ref Mon # 3 100002	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 10 46.2999864
Longitude	93 16 55.5861540
Ellipsoid Height (M):	140.768
Geoid Height (M):	-27.628

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 53 SOUTH, LOCATED ABOUT 20.92 KM (13.00 MI) WEST OF ARKADELPHIA, GO SOUTH ON STATE HIGHWAY 53 FOR 1.61 KM (1.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.938 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 53, 11.833 METERS NORTHWEST OF THE CENTER OF A GRAVEL ROAD (CALDWELL ROAD) AND 1.00 METERS NORTHEAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "100004 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100004A	Date Monumented 9/29/1997	Monumented By AHTD	County CLARK	Route 53	Job Number: 070064
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	568,911.4929	
Easting (M)	281,690.8000	
Elevation (M)*	145.507	
Northing (SFT)	1,866,503.7896	
Easting (SFT)	924,180.5663	
Elevation (SFT)*	477.384	

Convergence Angle	0	43	6.1161346
Scale Factor	0.999921815		
Elevation Adjust. Factor	0.9999771657		
Combined Adjust. Factor	0.9998989825		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing) Ref Mon # 1 FRANKLIN 2 Ref Mon # 2 C 59 Ref Mon # 3 100002	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation by 3 wire run on 12/16/97 by S5113</td> </tr> </table>	Comments	Elevation by 3 wire run on 12/16/97 by S5113
Comments			
Elevation by 3 wire run on 12/16/97 by S5113			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 53 SOUTH, LOCATED ABOUT 20.92 KM (13.00 MI) WEST OF ARKADELPHIA, GO SOUTH ON STATE HIGHWAY 53 FOR 1.21 KM (0.75 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.90 METERS WEST OF THE CENTER OF STATE HIGHWAY 53 AND 1.00 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "100004A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	100004
Geodetic Azimuth	161 01 39.22807
Grid Azimuth	161 44 45.34956

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100005A (P.1)	Date Monumented 4/26/2000	Monumented By AHTD	County CLARK	Route 30	Job Number: 070442
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	561,179.5285 0.0020
Easting (M)	299,064.3100 0.0020
Elevation (M)*	94.572
Northing (SFT)	1,841,136.5031
Easting (SFT)	981,180.1571
Elevation (SFT)*	310.274

Convergence Angle	0 36 44.5743489
Scale Factor	0.999919455
Elevation Adjust. Factor	0.9999851588
Combined Adjust. Factor	0.9999046150

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM Ref Mon # 2 ARGS Ref Mon # 3 ARHP, ARLR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> *****NOTE: SEE 100005A (P.2) FOR SUPERCEDED POSITION***** ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY/AUG. 2020 FOR JOB #070442 FROM GPS POINT 100021 WHICH IS BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN DEC. 2011 FROM 2ND ORDER NGS BM's X 136 & Y 136. </td> </tr> </table>	Comments	*****NOTE: SEE 100005A (P.2) FOR SUPERCEDED POSITION***** ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY/AUG. 2020 FOR JOB #070442 FROM GPS POINT 100021 WHICH IS BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN DEC. 2011 FROM 2ND ORDER NGS BM's X 136 & Y 136.
Comments			
*****NOTE: SEE 100005A (P.2) FOR SUPERCEDED POSITION***** ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY/AUG. 2020 FOR JOB #070442 FROM GPS POINT 100021 WHICH IS BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN DEC. 2011 FROM 2ND ORDER NGS BM's X 136 & Y 136.			

Vertical Determined By: 3rd Order - Digital Levels	Elevation Datum: NAVD 88
Geoid Datum: Geoid 18	Latitude 34 6 54.0704808
Longitude 93 5 38.9155488	Ellipsoid Height (M): 67.751 0.0040
Geoid Height (M): -26.837 0.0040	

Location Description
TO REACH THE STATION FROM THE JUNCTION OF I-30 AND STATE HIGHWAYS 51 AND 8 (EXIT 73), LOCATED ON THE WEST SIDE OF ARKADELPHIA, GO EAST ON STATE HIGHWAYS 51 AND 8 FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF RED HILL ROAD ON THE RIGHT, GO RIGHT SOUTH ON RED HILL ROAD FOR 0.48 KM (0.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 23.40 METERS EAST-SOUTHEAST OF THE CENTER OF THE I-30 OFF RAMP, 6.90 METERS WEST- NORTHWEST OF THE CENTER OF RED HILL ROAD AND 1.99 METERS WEST-NORTHWEST OF A WITNESS POST. THE SHOT DISTANCE IS 396.409 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100005A (P.2)	Date Monumented 4/26/2000	Monumented By AHTD	County CLARK	Route 30	Job Number: 070240,070363,070364
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	561,179.5361	
Easting (M)	299,064.2913	
Elevation (M)*	94.578	
Northing (SFT)	1,841,136.5280	
Easting (SFT)	981,180.0957	
Elevation (SFT)*	310.296	

Convergence Angle	0	36	44.5747579
Scale Factor	0.999919455		
Elevation Adjust. Factor	0.9999851578		
Combined Adjust. Factor	0.9999046140		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude	34	6	54.0710784
Longitude	93	5	38.9157468
Ellipsoid Height:			
Grid Northing (Meters)	561,179.5470		
Grid Easting (Meters)	299,064.3051		

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND STATE HIGHWAYS 51 AND 8 (EXIT 73), LOCATED ON THE WEST SIDE OF ARKADELPHIA, GO EAST ON STATE HIGHWAYS 51 AND 8 FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF RED HILL ROAD ON THE RIGHT, GO RIGHT SOUTH ON RED HILL ROAD FOR 0.48 KM (0.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 23.40 METERS EAST-SOUTHEAST OF THE CENTER OF THE I-30 OFF RAMP, 6.90 METERS WEST-NORTHWEST OF THE CENTER OF RED HILL ROAD AND 1.99 METERS WEST-NORTHWEST OF A WITNESS POST. THE SHOT DISTANCE IS 396.409 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 AHTD HOPE 1</p> <p>Ref Mon # 2 300001</p> <p>Ref Mon # 3 200007</p>	<p style="text-align: center;">Comments</p> <p>Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136. This elevation supersedes a previous elevation of 310.2320'.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100006	Date Monumented 1/7/2003	Monumented By AHTD	County CLARK	Route 26	Job Number: 070245
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	559,401.9309	
Easting (M)	291,076.8870	
Elevation (M)*	94.473	
Northing (SFT)	1,835,304.5016	
Easting (SFT)	954,974.7534	
Elevation (SFT)*	309.950	

Convergence Angle	0	39	38.5680588
Scale Factor	0.999919087		
Elevation Adjust. Factor	0.9999851744		
Combined Adjust. Factor	0.9999042626		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	279	13.60	44.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HOP1	ELEV BY 3WIRE BY S5101 FROM NGS X137
Ref Mon # 2 AHTD MON1	
Ref Mon # 3 AHTD LROC	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 5 53.4980652
Longitude	93 10 49.7903124
Ellipsoid Height (M):	67.613
Geoid Height (M):	-26.778

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 53 AND STATE HIGHWAY 26 LOCATED IN HOLLYWOOD, GO EAST ON STATE HIGHWAY 26 FOR 4.05 MILES TO THE STATION ON THE RIGHT ON TOP OF A HIGH BANK. THE STATION IS 13.95 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 26 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "100006 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	100006A
Geodetic Azimuth	280 23 28
Grid Azimuth	281 03 06

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100006A	Date Monumented 1/7/2003	Monumented By AHTD	County CLARK	Route 26	Job Number: 070245
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	559,502.6270	
Easting (M)	290,561.3390	
Elevation (M)*	83.840	
Northing (SFT)	1,835,634.8687	
Easting (SFT)	953,283.3264	
Elevation (SFT)*	275.065	

Convergence Angle	0	39	49.8506171
Scale Factor	0.999919103		
Elevation Adjust. Factor	0.9999868429		
Combined Adjust. Factor	0.9999059470		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF CORRIGATED METAL PIPE	304	5.50	18.0
MK # 2	WOOD CORNER POST	260	6.30	20.7
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HOP1	ELEV BY 3WIRE BY S5101 FROM NGS X137
Ref Mon # 2 AHTD MON1	
Ref Mon # 3 AHTD LROC	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100007	Date Monumented 1/7/2003	Monumented By AHTD	County CLARK	Route 26	Job Number: 070245,070237
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	559,981.1410	
Easting (M)	285,970.6280	
Elevation (M)*	80.334	
Northing (SFT)	1,837,204.7934	
Easting (SFT)	938,221.9687	
Elevation (SFT)*	263.561	

Convergence Angle	0	41	30.2161965
Scale Factor	0.999919180		
Elevation Adjust. Factor	0.9999873932		
Combined Adjust. Factor	0.9999065742		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	90	3.30	10.8
MK # 2	EAST END REINFORCED CONCRETE PIPE	273	16.00	52.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HOP1	ELEV BY 3WIRE BY S5101 FROM NGS X137
Ref Mon # 2 AHTD MON1	
Ref Mon # 3 AHTD LROC	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100007A	Date Monumented 1/7/2003	Monumented By AHTD	County CLARK	Route 26	Job Number: 070245,070237
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	560,123.3720	
Easting (M)	285,574.9760	
Elevation (M)*	75.368	
Northing (SFT)	1,837,671.4296	
Easting (SFT)	936,923.9004	
Elevation (SFT)*	247.269	

Convergence Angle	0	41	38.8933776
Scale Factor	0.999919206		
Elevation Adjust. Factor	0.9999881725		
Combined Adjust. Factor	0.9999073794		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 53 AND STATE HIGHWAY 26 LOCATED IN HOLLYWOOD, GO EAST ON STATE HIGHWAY 26 FOR 0.47 MILES TO THE STATION ON THE LEFT. THE STATION IS 7.00 METERS NORTH OF THE CENTER OF STATE HIGHWAY 26, 4.60 METERS WEST OF THE CENTER OF A GRAVEL DRIVE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "100007A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 AHTD HOP1</p> <p>Ref Mon # 2 AHTD MON1</p> <p>Ref Mon # 3 AHTD LROC</p>	<p style="text-align: center;">Comments</p> <p>ELEV BY 3WIRE BY S5101 FROM NGS X137</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100008	Date Monumented 7/29/2003	Monumented By AHTD	County CLARK	Route 26	Job Number: 070237
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	554,874.9730	
Easting (M)	270,681.0600	
Elevation (M)*		
Northing (SFT)	1,820,452.3073	
Easting (SFT)	888,059.4444	
Elevation (SFT)*		

Convergence Angle	0	47	2.5504530
Scale Factor	0.999918534		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	GUY POLE	242	7.40	24.3	
MK # 2	GUY	319	2.30	7.5	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LROC	ELEV BY 3WR FROM NGS X 137 - RV 542
Ref Mon # 2 HOPE, DQUA	
Ref Mon # 3 100007,100007A	

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 34 3 18.2304432

Longitude 93 24 3.0541716

Ellipsoid Height (M):

Geoid Height (M): -26.936

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29/301/AND 26, IN ANTOINE, GO EAST ON HIGHWAY 26 1.7 MILES TO THE STATION ON THE LEFT. NORTHWEST 9.7 METERS OF THE CENTERLINE AND 0.50 METERS SOUTHEAST OF A WITNESS POST. EAST OF A GRAVEL DRIVE 14.2 METERS. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100008 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100008A	Date Monumented 7/29/2003	Monumented By AHTD	County CLARK	Route 26	Job Number: 070237
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	554,650.3910	
Easting (M)	270,480.6150	
Elevation (M)*		
Northing (SFT)	1,819,715.4911	
Easting (SFT)	887,401.8177	
Elevation (SFT)*		

Convergence Angle	0	47	6.8576980
Scale Factor	0.999918522		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LROC	ELEV BY 3WR FROM NGS X 137 - RV 542
Ref Mon # 2 HOPE, DQUA	
Ref Mon # 3 100007,100007A	

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 3 10.8526644
Longitude	93 24 10.7499312
Ellipsoid Height (M):	64.864
Geoid Height (M):	-26.936

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29/301/AND 26, IN ANTOINE, GO EAST ON HIGHWAY 26 1.5 MILES TO THE STATION ON THE LEFT. NORTHWEST 9.0 METERS OF THE CENTERLINE AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100008A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	100008
Geodetic Azimuth	40 57 52
Grid Azimuth	41 44 59

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100009	Date Monumented 7/29/2003	Monumented By AHTD	County CLARK	Route 26	Job Number: 070237
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	556,574.6640	
Easting (M)	272,411.9140	
Elevation (M)*		
Northing (SFT)	1,826,028.7101	
Easting (SFT)	893,738.0878	
Elevation (SFT)*		

Convergence Angle	0	46	25.2779023
Scale Factor	0.999918668		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	214	3.40	11.2
MK # 2	FIRE HYDRANT	134	11.90	39.0
MK # 3	CONC WPA MARKER	237	3.70	12.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LROC	ELEV BY 3WR FROM NGS X 137 - RV 542. SINGLE POINT SET FOR RTK COLLECTION. NO AZIMUTH SET.
Ref Mon # 2 HOPE, DQUA	
Ref Mon # 3 100007,100007A	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 4 14.1566196
Longitude	93 22 56.4592620
Ellipsoid Height (M):	93.383
Geoid Height (M):	-26.937

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29/301/AND 26, IN ANTOINE, GO EAST ON HIGHWAY 26 3.2 MILES TO THE STATION ON THE RIGHT. SOUTHEAST 8.0 METERS OF THE CENTERLINE AND 0.50 METERS NORTHWEST OF A WITNESS POST. SOUTHWEST 19.7 METERS OF SMYRNA GRAVEL ROAD. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100009 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100010	Date Monumented 7/29/2003	Monumented By AHTD	County CLARK	Route 26	Job Number: 070237
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	557,794.2049	
Easting (M)	277,661.2870	
Elevation (M)*		
Northing (SFT)	1,830,029.8206	
Easting (SFT)	910,960.4058	
Elevation (SFT)*		

Convergence Angle	0	44	31.0406738
Scale Factor	0.999918816		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: AHTD LROC	ELEV BY 3WR FROM NGS X 137 - RV 542
Ref Mon # 2: HOPE, DQUA	
Ref Mon # 3: 100007,100007A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100010A	Date Monumented 7/29/2003	Monumented By AHTD	County CLARK	Route 26	Job Number: 070237
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	558,020.5790	
Easting (M)	277,959.8270	
Elevation (M)*		
Northing (SFT)	1,830,772.5163	
Easting (SFT)	911,939.8657	
Elevation (SFT)*		

Convergence Angle	0	44	24.5871738
Scale Factor	0.999918847		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE RISER	222	6.80	22.3	
MK # 2	POWER POLE	60	9.40	30.8	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD LROC Ref Mon # 2 HOPE, DQUA Ref Mon # 3 100007,100007A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV BY 3WR FROM NGS X 137 - RV 542</td> </tr> </table>	Comments	ELEV BY 3WR FROM NGS X 137 - RV 542
Comments			
ELEV BY 3WR FROM NGS X 137 - RV 542			

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29/301/AND 26, IN ANTOINE, GO EAST ON HIGHWAY 26 6.85 MILES TO THE STATION ON THE RIGHT. SOUTH 11.5 METERS OF THE CENTERLINE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100010A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 5 3.4619136
Longitude	93 19 20.8209972
Ellipsoid Height (M):	74.242
Geoid Height (M):	-26.906

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100011	Date Monumented 7/29/2003	Monumented By AHTD	County CLARK	Route 26	Job Number: 070237
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	559,019.1120				
Easting (M)	280,989.5770				
Elevation (M)*					
Northing (SFT)	1,834,048.5366				
Easting (SFT)	921,879.9705				
Elevation (SFT)*					

Convergence Angle	0	43	18.7183066
Scale Factor	0.999919002		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29/301/AND 26, IN ANTOINE, GO EAST ON HIGHWAY 26 8.9 MILES TO THE STATION ON THE LEFT. NORTH 12.2 METERS OF THE CENTERLINE AND 0.50 METERS SOUTH OF A WITNESS POST, AND 11.0 METERS WEST OF A GRAVEL DRIVE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100011 2003" ON TOP OF A 0.62 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LROC	<p>ELEV BY 3WR FROM NGS X 137 - RV 542. SINGLE POINT SET FOR RTK COLLECTION. NO AZIMUTH SET.</p>
Ref Mon # 2 HOPE, DQUA	
Ref Mon # 3 100007,100007A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100012	Date Monumented 7/30/2003	Monumented By AHTD	County CLARK	Route 7	Job Number: 070240
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	561,149.4360	
Easting (M)	305,150.2880	
Elevation (M)*	56.770	
Northing (SFT)	1,841,037.7746	
Easting (SFT)	1,001,147.2365	
Elevation (SFT)*	186.253	

Convergence Angle	0	34	31.6508396
Scale Factor	0.999919462		
Elevation Adjust. Factor	0.9999910910		
Combined Adjust. Factor	0.9999105537		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PIPE GATE POST	339	26.30	86.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPE, MEM2	Digital Levels were ran by crew s5101 in March 2010 from NGS 2nd order marks Y 136 and 246 during Job 070240.
Ref Mon # 2 100005A	
Ref Mon # 3 DQUA, FRANKLIN2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100012A	Date Monumented 7/30/2003	Monumented By AHTD	County CLARK	Route 7	Job Number: 070240
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	560,560.2470	
Easting (M)	305,471.0540	
Elevation (M)*	55.692	
Northing (SFT)	1,839,104.7437	
Easting (SFT)	1,002,199.6163	
Elevation (SFT)*	182.715	

Convergence Angle	0	34	24.5165296
Scale Factor	0.999919337		
Elevation Adjust. Factor	0.9999912603		
Combined Adjust. Factor	0.9999105980		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GATE POST	308	21.60	70.9
MK # 2	POWER POLE	305	21.20	69.6
MK # 3	GUY	300	16.90	55.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPE, MEM2	Digital Levels were ran by crew s5101 in March 2010 from NGS 2nd order marks Y 136 and 246 during Job 070240.
Ref Mon # 2 100005A	
Ref Mon # 3 DQUA, FRANKLIN2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100013	Date Monumented 7/14/2004	Monumented By AHTD	County CLARK	Route 53	Job Number: R30011
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	528,043.8131	
Easting (M)	294,544.7850	
Elevation (M)*	54.890	
Northing (SFT)	1,732,423.7435	
Easting (SFT)	966,352.3488	
Elevation (SFT)*	180.085	

Convergence Angle	0	38	15.2259732
Scale Factor	0.999925706		
Elevation Adjust. Factor	0.9999913860		
Combined Adjust. Factor	0.9999170927		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTHWEST END OF BRIDGE	212	2.50	8.2	
MK # 2	1ST CONC GUARD RAIL POST	70	2.40	7.9	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 S 197 Ref Mon # 2 AHTD HOPE, LROC Ref Mon # 3 DQUA	Comments 3-wire Elevations were ran by S5104 from NGS V 192 X in Job# R30011 on Feb 2005
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 48 57.0187944
Longitude	93 8 20.8829112
Ellipsoid Height (M):	28.350
Geoid Height (M):	-26.501

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 53 AND I24, SOUTHWEST OF GURDON, GO NORTH ON HIGHWAY 53 3.05 MILES TO THE STATION ON THE LEFT, AT THE NORTHWEST END OF THE BRIDGE ACROSS THE LITTLE MISSOURI RIVER, NORTHWEST 5.60 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTHWEST 0.90 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100013 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	100013A
Geodetic Azimuth	70 49 49
Grid Azimuth	71 28 04

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100013A	Date Monumented 7/14/2004	Monumented By AHTD	County CLARK	Route 53	Job Number: R30011
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	528,130.4741	
Easting (M)	294,803.3060	
Elevation (M)*	53.430	
Northing (SFT)	1,732,708.0638	
Easting (SFT)	967,200.5131	
Elevation (SFT)*	175.296	

Convergence Angle	0	38	9.6206799
Scale Factor	0.999925653		
Elevation Adjust. Factor	0.9999916151		
Combined Adjust. Factor	0.9999172687		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 53 AND 124, SOUTHWEST OF GURDON, GO NORTH ON HIGHWAY 53 3.25 MILES TO THE STATION ON THE LEFT, 5.80 METERS NORTH OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 7.40 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100013A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 S 197 Ref Mon # 2 AHTD HOPE, LROC Ref Mon # 3 DQUA	Comments 3-wire Elevations were ran by S5104 from NGS V 192 X in Job# R30011 on Feb 2005
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100014	Date Monumented 2/1/2005	Monumented By AHTD	County CLARK	Route 53	Job Number: 070265
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	543,169.3210	
Easting (M)	292,296.7920	
Elevation (M)*	71.608	
Northing (SFT)	1,782,048.0140	
Easting (SFT)	958,977.0584	
Elevation (SFT)*	234.932	

Convergence Angle	0	39	7.8963830
Scale Factor	0.999919499		
Elevation Adjust. Factor	0.9999887626		
Combined Adjust. Factor	0.9999082625		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	121	12.40	40.7	100014A
MK # 2	TELEPHONE RISER	124	14.15	46.4	319 43 11
MK # 3					320 22 19

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 C.O.R.S. HOPE Ref Mon # 2 LROC Ref Mon # 3 G 23, 100007	3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS Q151

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100014A	Date Monumented 2/1/2005	Monumented By AHTD	County CLARK	Route 53	Job Number: 070265
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	543,553.2660	
Easting (M)	291,978.8490	
Elevation (M)*	69.672	
Northing (SFT)	1,783,307.6735	
Easting (SFT)	957,933.9404	
Elevation (SFT)*	228.582	

Convergence Angle	0	39	14.9223929
Scale Factor	0.999919416		
Elevation Adjust. Factor	0.9999890663		
Combined Adjust. Factor	0.9999084832		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	338	2.35	7.7
MK # 2	COMBINATION POLE	140	10.10	33.1
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input type="text" value="CORS HOPE"/> Ref Mon # 2 <input type="text" value="LROC"/> Ref Mon # 3 <input type="text" value="G 23, 100007"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS Q151</td> </tr> </table>	Comments	3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS Q151
Comments			
3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS Q151			

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 57 19.4578632
Longitude	93 10 7.5425736
Ellipsoid Height (M):	43.119
Geoid Height (M):	-26.631

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 67 AND 53 NORTH OF GURDON GO NORTH ON HWY-53 FOR 1.8 MILES TO THE STATION ON THE LEFT. 9.80 METERS SOUTHWEST OF THE CENTER OF HWY-53, 27.6 METERS SOUTHEAST OF THE CENTER OF COLLINS ROAD, 21.7 METERS NORTHWEST OF THE CENTER OF A GRAVEL DRIVE AND 0.20 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 100014A 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100015	Date Monumented 2/1/2005	Monumented By AHTD	County CLARK	Route 53	Job Number: 070265, 070573
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	548,222.1854 0.0030
Easting (M)	290,627.2679 0.0030
Elevation (M)*	72.650

Northing (SFT)	1,798,625.6199
Easting (SFT)	953,499.6281
Elevation (SFT)*	238.352

Convergence Angle	0	39	45.5621650
Scale Factor	0.999918678		
Elevation Adjust. Factor	0.9999885990		
Combined Adjust. Factor	0.9999072779		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)
Latitude	33 59 50.4866040
Longitude	93 11 2.2873056
Ellipsoid Height:	45.961
Grid Northing (Meters)	548,222.1741
Grid Easting (Meters)	290,627.2520

Location Description

 THE STATION IS AT THE JUNCTION OF HIGHWAY 53 AND INTERSTATE 40 NEAR GURDON NEAR THE NORTHEAST CORNER OF THE INTERSTATE OVERPASS BRIDGE. 5.85 METERS EAST OF THE CENTER OF HWY-53 AND 0.90 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100015 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description	Azimuth	Distance	
		Meters Feet	
MK # 1 NORTHEAST CORNER OF BRIDGE END	185	2.60 8.5	AZ Mark Station 100015A
MK # 2 CONCRETE HEADWALL AND DRAIN	350	6.30 20.7	Geodetic Azimuth 216 21 09
MK # 3			Grid Azimuth 217 00 55

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM (C.O.R.S. HOPE) Ref Mon # 2 ARGS (LROC) Ref Mon # 3 ARHP (G 23, 100007)	<div style="border: 1px solid black; padding: 5px;"> Comments 3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS M 151 *****SUPERCEDED GEOD HT. WAS -26.690m***** </div>
--	---

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100015A	Date Monumented 2/1/2005	Monumented By AHTD	County CLARK	Route I 40	Job Number: 070265, 070573
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	547,660.8653	0.0030	
Easting (M)	290,204.0369	0.0030	
Elevation (M)*	75.474		

Northing (SFT)	1,796,784.0222	
Easting (SFT)	952,111.0777	
Elevation (SFT)*	247.617	

Convergence Angle	0	39	54.6504273
Scale Factor	0.999918739		
Elevation Adjust. Factor	0.9999881559		
Combined Adjust. Factor	0.9999068958		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	33	59	32.1094464
Longitude	93	11	18.5248824
Ellipsoid Height:	48.842		
Grid Northing (Meters)	547,660.8541		
Grid Easting (Meters)	290,204.0320		

Location Description

 TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE 40 AND STATE HIGHWAY 53 NEAR GURDON, GO WEST ON INTERSTATE 40 TO THE STATION IN THE MEDIAN. 8.60 METERS SOUTHEAST OF THE EDGE OF THE WEST BOUND LANE, 7.05 METERS NORTHWEST OF THE EDGE OF THE EAST BOUND LANE AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 100015A 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	100015
Geodetic Azimuth	036 21 00
Grid Azimuth	037 00 55

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM (C.O.R.S. HOPE) Ref Mon # 2 ARGS (LROC) Ref Mon # 3 ARHP (G 23, 100007)	<div style="text-align: center; border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Comments </div> 3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS M 151 *****SUPERCEDED GEOD HT. WAS -26.688m*****
--	--

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100016	Date Monumented 2/1/2005	Monumented By AHTD	County CLARK	Route 53	Job Number: 070265
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	551,004.1180				
Easting (M)	288,626.1200				
Elevation (M)*	65.483				
Northing (SFT)	1,807,752.6771				
Easting (SFT)	946,934.1954				
Elevation (SFT)*	214.837				

Convergence Angle	0	40	29.9205979
Scale Factor	0.999918492		
Elevation Adjust. Factor	0.9999897238		
Combined Adjust. Factor	0.9999082166		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF CULVERT	280	32.70	107.3
MK # 2				
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>C.O.R.S. HOPE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>LROC</td> </tr> <tr> <td>Ref Mon # 3</td> <td>G 23, 100007</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	C.O.R.S. HOPE	Ref Mon # 2	LROC	Ref Mon # 3	G 23, 100007	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS M 151</td> </tr> </table>	Comments	3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS M 151
Area Reference Monuments (used for Processing)											
Ref Mon # 1	C.O.R.S. HOPE										
Ref Mon # 2	LROC										
Ref Mon # 3	G 23, 100007										
Comments											
3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS M 151											

Location Description	
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 53 AND 51 IN HOLLYWOOD GO SOUTH ON HWY-53 FOR 3.40 MILES TO THE STATION ON THE LEFT. 13.60 METERS EAST OF THE CENTER OF HWY-53 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 100016 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 1 20.0178300
Longitude	93 12 21.5419536
Ellipsoid Height (M):	38.748
Geoid Height (M):	-26.733

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100016A	Date Monumented 2/1/2005	Monumented By AHTD	County CLARK	Route 53	Job Number: 070265
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	550,766.1630	
Easting (M)	288,934.2400	
Elevation (M)*	63.809	
Northing (SFT)	1,806,971.9864	
Easting (SFT)	947,945.0857	
Elevation (SFT)*	209.347	

Convergence Angle	0	40	23.1377647
Scale Factor	0.999918501		
Elevation Adjust. Factor	0.9999899864		
Combined Adjust. Factor	0.9999084882		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 53 AND 51 SOUTH OF HOLLYWOOD GO SOUTH ON HIGHWAY 53 FOR 3.70 MILES TO THE STATION ON THE RIGHT. 11.70 METERS SOUTHWEST OF THE CENTER OF HWY-53 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "100016A 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 C.O.R.S. HOPE Ref Mon # 2 LROC Ref Mon # 3 G 23, 100007	3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS M 151

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100017	Date Monumented 2/1/2005	Monumented By AHTD	County CLARK	Route 51	Job Number: 070265
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	554,490.4730	
Easting (M)	284,987.7730	
Elevation (M)*	70.309	
Northing (SFT)	1,819,190.8268	
Easting (SFT)	934,997.3853	
Elevation (SFT)*	230.673	

Convergence Angle	0	41	50.2188550
Scale Factor	0.999918523		
Elevation Adjust. Factor	0.9999889663		
Combined Adjust. Factor	0.9999074902		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	189	5.20	17.1
MK # 2	SIGN	194	5.40	17.7
MK # 3	SOUTHEAST CORNER OF A SIDEWALK	103	16.90	55.4

Area Reference Monuments (used for Processing) Ref Mon # 1 C.O.R.S. HOPE Ref Mon # 2 LROC Ref Mon # 3 G 23, 100007	Comments 3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS G 151
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 3 11.7541908
Longitude	93 14 45.0109428
Ellipsoid Height (M):	43.509
Geoid Height (M):	-26.801

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 53 AND 51 SOUTH OF HOLLYWOOD GO SOUTH ON HWY-51 FOR 0.10 MILES TO THE STATION ON THE LEFT IN FRONT OF THE TRINITY UNITED METHODIST CHURCH. 8.20 METERS SOUTHEAST OF THE CENTER OF HIGHWAY 51. THERE IS NO WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100017 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	100017A
Geodetic Azimuth	236 06 37
Grid Azimuth	236 48 27

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100017A	Date Monumented 2/1/2005	Monumented By AHTD	County CLARK	Route 51	Job Number: 070265
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	554,315.5580	
Easting (M)	284,720.3980	
Elevation (M)*	69.812	
Northing (SFT)	1,818,616.9599	
Easting (SFT)	934,120.1724	
Elevation (SFT)*	229.042	

Convergence Angle	0	41	56.0073519
Scale Factor	0.999918515		
Elevation Adjust. Factor	0.9999890443		
Combined Adjust. Factor	0.9999075602		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	024	36.90	121.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 C.O.R.S. HOPE Ref Mon # 2 LROC Ref Mon # 3 G 23, 100007	Comments 3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS G 151
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Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 34 3 5.9715792

Longitude 93 14 55.3532568

Ellipsoid Height (M): 43.123

Geoid Height (M): -26.802

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 53 AND 51 SOUTH OF HOLLYWOOD GO SOUTH ON HWY-51 FOR 0.40 MILES TO THE STATION ON THE RIGHT. 12.70 METERS NORTHWEST OF THE CENTER OF HWY-51 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100017A 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100018	Date Monumented 10/26/2005	Monumented By AHTD	County CLARK	Route 26	Job Number: 070294
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	556,136.9490	
Easting (M)	297,026.9920	
Elevation (M)*		
Northing (SFT)	1,824,592.6402	
Easting (SFT)	974,496.0563	
Elevation (SFT)*		

Convergence Angle	0	37	27.8684644
Scale Factor	0.999918655		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	24" RCP WITH HEADWALL	203	8.30	27.2
MK # 2	FIRE HYDRANT	330	18.55	60.9
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARK1 Ref Mon # 2 DQUA Ref Mon # 3 CSAL	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 4 9.6979764
Longitude	93 6 56.2691952
Ellipsoid Height (M):	70.955
Geoid Height (M):	-26.689

Location Description
TO REACH THE STATION MARK FORM THE JUNCTION OF I 30 AND STATE HIGHWAY 26, NORTHWEST OF GUM SPRINGS, GO EAST ON STATE HIGHWAY 26 0.3 MILES TO THE STATION ON THE ,LEFT, SOUTHEAST 11.0 METERS OF A CONCRETE DRIVE, NORTHEAST 17.35 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100018 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN BELOW THE GROUND LEVEL.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100018A	Date Monumented 10/26/2005	Monumented By AHTD	County CLARK	Route 26	Job Number: 070294
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	556,524.8400	
Easting (M)	296,625.2550	
Elevation (M)*		
Northing (SFT)	1,825,865.2459	
Easting (SFT)	973,178.0241	
Elevation (SFT)*		

Convergence Angle	0	37	36.7301990
Scale Factor	0.999918693		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	12" CMP	130	8.00	26.2	
MK # 2	SOUTHWEST CORNER OF BACK WALL OF B	320	1.70	5.6	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARK1 Ref Mon # 2 DQUA Ref Mon # 3 CSAL	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 4 22.1447748
Longitude	93 7 12.1024668
Ellipsoid Height (M):	71.948
Geoid Height (M):	-26.696

Location Description
THE STATION MARK IS LOCATED NORTHWEST OF GUM SPRINGS AT THE SOUTHWEST CORNER OF THE STATE HIGHWAY 26 OVERPASS OVER I 30 (EXIT 69). NORTHEAST 6.3 METERS OF THE CENTERLINE OF STATE HIGHWAY 26 AND SOUTHWEST 1.00 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100018A 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN BELOW GROUND LEVEL.

AZ Mark Station	100018
Geodetic Azimuth	133 22 07
Grid Azimuth	133 59 44

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100019	Date Monumented 1/6/2011	Monumented By AHTD	County CLARK	Route 67	Job Number: 070344
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	544,633.3480	
Easting (M)	295,681.1940	
Elevation (M)*	60.264	
Northing (SFT)	1,786,851.2426	
Easting (SFT)	970,080.7173	
Elevation (SFT)*	197.714	

Convergence Angle	0	37	54.4754654
Scale Factor	0.999919189		
Elevation Adjust. Factor	0.9999905428		
Combined Adjust. Factor	0.9999097325		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	FENCE CORNER	180	14.28	46.9	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARCM Ref Mon # 3 G 23, G23A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Location Description</th> </tr> <tr> <td style="height: 150px; vertical-align: top;"> TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND STATE HIGHWAY 53, NORTH OF GURDON, GO NORTH ON 67 FOR 2.65 MILES TO THE MARK ON THE RIGHT, 45.7 FEET EAST OF THE CENTERLINE OF THE HIGHWAY, NORTH 76 FEET OF THE C/L OF LOCKIE ROAD AND WEST 14.7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100019 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND. </td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">AZ Mark Station</td> <td>100019A</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>15 58 04</td> </tr> <tr> <td>Grid Azimuth</td> <td>16 35 58</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Comments</th> </tr> <tr> <td colspan="2" style="height: 100px; vertical-align: top;"> ELEVATIONS BY CREW S5112 ON 4/6/2011 USING DIGITAL 3 WIRE LEVELS FROM G 23 TO J 192 X. </td> </tr> </table>	Location Description		TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND STATE HIGHWAY 53, NORTH OF GURDON, GO NORTH ON 67 FOR 2.65 MILES TO THE MARK ON THE RIGHT, 45.7 FEET EAST OF THE CENTERLINE OF THE HIGHWAY, NORTH 76 FEET OF THE C/L OF LOCKIE ROAD AND WEST 14.7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100019 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	AZ Mark Station	100019A	Geodetic Azimuth	15 58 04	Grid Azimuth	16 35 58	Comments		ELEVATIONS BY CREW S5112 ON 4/6/2011 USING DIGITAL 3 WIRE LEVELS FROM G 23 TO J 192 X.	
Location Description														
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND STATE HIGHWAY 53, NORTH OF GURDON, GO NORTH ON 67 FOR 2.65 MILES TO THE MARK ON THE RIGHT, 45.7 FEET EAST OF THE CENTERLINE OF THE HIGHWAY, NORTH 76 FEET OF THE C/L OF LOCKIE ROAD AND WEST 14.7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100019 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.														
AZ Mark Station	100019A													
Geodetic Azimuth	15 58 04													
Grid Azimuth	16 35 58													
Comments														
ELEVATIONS BY CREW S5112 ON 4/6/2011 USING DIGITAL 3 WIRE LEVELS FROM G 23 TO J 192 X.														

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100019A	Date Monumented 1/6/2011	Monumented By AHTD	County CLARK	Route 67	Job Number: 070344
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	545,236.9831	
Easting (M)	295,861.1400	
Elevation (M)*	61.558	
Northing (SFT)	1,788,831.6687	
Easting (SFT)	970,671.0902	
Elevation (SFT)*	201.963	

Convergence Angle	0	37	50.6972772
Scale Factor	0.999919079		
Elevation Adjust. Factor	0.9999903396		
Combined Adjust. Factor	0.9999094193		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	10	18.84	61.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARCM Ref Mon # 3 G 23, G 23A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Comments</th> </tr> <tr> <td colspan="2" style="padding: 5px;"> ELEVATIONS BY CREW S5112 ON 4/6/2011 USING DIGITAL 3 WIRE LEVELS FROM G 23 TO J 192 X. </td> </tr> </table>	Comments		ELEVATIONS BY CREW S5112 ON 4/6/2011 USING DIGITAL 3 WIRE LEVELS FROM G 23 TO J 192 X.	
Comments					
ELEVATIONS BY CREW S5112 ON 4/6/2011 USING DIGITAL 3 WIRE LEVELS FROM G 23 TO J 192 X.					

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND STATE HIGHWAY 53, NORTH OF GURDON, GO NORTH ON 67 FOR 3.0 MILES TO THE MARK ON THE LEFT, 43.6 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, SOUTH 8.6 FEET OF THE C/L OF A GRAVEL ROAD AND NORTHEAST 20.2 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100019A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	100019
Geodetic Azimuth	195 58 08
Grid Azimuth	196 35 58

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100020	Date Monumented 1/6/2011	Monumented By AHTD	County CLARK	Route CR 9	Job Number: 070344
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	548,157.3221	
Easting (M)	299,159.7280	
Elevation (M)*	53.711	
Northing (SFT)	1,798,412.8143	
Easting (SFT)	981,493.2076	
Elevation (SFT)*	176.218	

Convergence Angle	0	36	39.4576817
Scale Factor	0.999918675		
Elevation Adjust. Factor	0.9999915710		
Combined Adjust. Factor	0.9999102467		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	90	25.91	85.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARCM Ref Mon # 3 G 23, G23A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Comments</th> </tr> <tr> <td colspan="2" style="padding: 5px;"> ELEVATIONS BY CREW S5112 ON 4/6/2011 USING DIGITAL 3 WIRE LEVELS FROM G 23 TO J 192 X. </td> </tr> </table>	Comments		ELEVATIONS BY CREW S5112 ON 4/6/2011 USING DIGITAL 3 WIRE LEVELS FROM G 23 TO J 192 X.	
Comments					
ELEVATIONS BY CREW S5112 ON 4/6/2011 USING DIGITAL 3 WIRE LEVELS FROM G 23 TO J 192 X.					

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND STATE HIGHWAY 53, NORTH OF GURDON, GO NORTH ON 67 FOR 5.0 MILES TO CURTIS ROAD ON THE RIGHT, TURN RIGHT AND GO 1.3 MILES TO THE MARK ON THE LEFT, 25.1 FEET NORTH OF THE CENTERLINE OF CURTIS ROAD (CR 9), SOUTH 2 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100020 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100021	Date Monumented 8/10/2011	Monumented By AHTD	County CLARK	Route 51	Job Number: 070363, 070364, 070442
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	561,536.4382 0.0020
Easting (M)	299,217.3829 0.0020
Elevation (M)*	101.779

Northing (SFT)	1,842,307.4643
Easting (SFT)	981,682.3637
Elevation (SFT)*	333.919

Convergence Angle	0	36	41.3144701
Scale Factor	0.999919536		
Elevation Adjust. Factor	0.9999840279		
Combined Adjust. Factor	0.9999035651		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	7	5.7071748
Longitude	93	5	33.0917244
Ellipsoid Height:	75.001		
Grid Northing (Meters)	561,536.4394		
Grid Easting (Meters)	299,217.3675		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER BRIDGE	260	8.99	29.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	Elevation established by digital levels from 2nd Order NGS BM's X 136 & Y 136 by B&F Engineering in Dec. 2011. (ORIG. STATIC USED GEOID 09 W/-26.777m GEOID HT.)
Ref Mon # 2 ARGS	
Ref Mon # 3 ARHP, ARLR	

AZ Mark Station	100005A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100022	Date Monumented 8/10/2011	Monumented By AHTD	County CLARK	Route 26	Job Number: 070364
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	558,977.3552	
Easting (M)	292,231.6871	
Elevation (M)*	108.515	
Northing (SFT)	1,833,911.5395	
Easting (SFT)	958,763.4601	
Elevation (SFT)*	356.019	

Convergence Angle	0	39	13.2469664
Scale Factor	0.999919017		
Elevation Adjust. Factor	0.9999829708		
Combined Adjust. Factor	0.9999019892		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	GUY	316	13.20	43.3	AZ Mark Station 100022A
MK # 2	POWER POLE	331	16.25	53.3	Geodetic Azimuth
MK # 3	WEST END OF GATE	54	18.14	59.5	Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/>	Elevation established by digital levels from 2nd Order NGS BM's X 136 & Y 136 by B&F Engineering in Dec. 2011.
Ref Mon # 2 <input style="width: 150px;" type="text"/>	
Ref Mon # 3 <input style="width: 150px;" type="text"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100022A	Date Monumented 8/10/2011	Monumented By AHTD	County CLARK	Route 26	Job Number: 070364
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	559,125.2794	
Easting (M)	291,799.5440	
Elevation (M)*	92.779	
Northing (SFT)	1,834,396.8542	
Easting (SFT)	957,345.6706	
Elevation (SFT)*	304.393	

Convergence Angle	0	39	22.7194897
Scale Factor	0.999919041		
Elevation Adjust. Factor	0.9999854401		
Combined Adjust. Factor	0.9999044823		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WEST END OF CULVERT	100	7.80	25.6	100022
MK # 2	GUY	355	11.98	39.3	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Elevation established by digital levels from 2nd Order NGS BM's X 136 & Y 136 by B&F Engineering in Dec. 2011.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100023	Date Monumented 8/10/2011	Monumented By AHTD	County CLARK	Route 51	Job Number: 070364
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	559,371.9859	
Easting (M)	295,671.8409	
Elevation (M)*	77.545	
Northing (SFT)	1,835,206.2571	
Easting (SFT)	970,050.0314	
Elevation (SFT)*	254.412	

Convergence Angle	0	37	58.2285743
Scale Factor	0.999919090		
Elevation Adjust. Factor	0.9999878308		
Combined Adjust. Factor	0.9999069218		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Elevation established by digital levels from 2nd Order NGS BM's X 136 & Y 136 by B&F Engineering in Dec. 2011.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100023A	Date Monumented 8/10/2011	Monumented By AHTD	County CLARK	Route 51	Job Number: 070364
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	559,156.2582	
Easting (M)	295,060.6883	
Elevation (M)*	100.591	
Northing (SFT)	1,834,498.4904	
Easting (SFT)	968,044.9415	
Elevation (SFT)*	330.022	

Convergence Angle	0	38	11.5209717
Scale Factor	0.999919052		
Elevation Adjust. Factor	0.9999842143		
Combined Adjust. Factor	0.9999032675		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation established by digital levels from 2nd Order NGS BM's X 136 & Y 136 by B&F Engineering in Dec. 2011.</td> </tr> </table>	Comments	Elevation established by digital levels from 2nd Order NGS BM's X 136 & Y 136 by B&F Engineering in Dec. 2011.
Comments			
Elevation established by digital levels from 2nd Order NGS BM's X 136 & Y 136 by B&F Engineering in Dec. 2011.			

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100024	Date Monumented 8/10/2011	Monumented By AHTD	County CLARK	Route 8	Job Number: 070363
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	562,392.1600
Easting (M)	295,949.7419
Elevation (M)*	101.010
Northing (SFT)	1,845,114.9449
Easting (SFT)	970,961.7782
Elevation (SFT)*	331.396

Convergence Angle	0 37 52.8872170
Scale Factor	0.999919732
Elevation Adjust. Factor	0.9999841486
Combined Adjust. Factor	0.9999038818

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:		SEE COMMENTS	
Elevation Datum:		NAVD 88	
Geoid Datum:		Geoid 09	
Latitude	34 7	32.3294880	
Longitude	93 7	40.9702296	
Ellipsoid Height (M):	74.173		
Geoid Height (M):	-26.817		

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTHWEST OF ARKADELPHIA, GO EAST ON HIGHWAY 8 FOR 10.6 MILES TO THE MARK ON THE LEFT, EAST 118.5 FEET OF THE CENTERLINE OF DEGRAY ROAD, NORTH 20.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 27.9 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100024 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/3 GUY	70	12.19	40.0
MK # 2	TELEPHONE BOX	55	13.78	45.2
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	<p>Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.</p>
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100024A	Date Monumented 8/10/2011	Monumented By AHTD	County CLARK	Route 8	Job Number: 070363
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	561,733.9117	
Easting (M)	295,916.0827	
Elevation (M)*	109.275	
Northing (SFT)	1,842,955.3420	
Easting (SFT)	970,851.3480	
Elevation (SFT)*	358.514	

Convergence Angle	0	37	53.4639359
Scale Factor	0.999919573		
Elevation Adjust. Factor	0.9999828515		
Combined Adjust. Factor	0.9999024258		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	85	4.72	15.5
MK # 2	TELEPHONE BOX	73	4.36	14.3
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.</td> </tr> </table>	Comments	Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.
Comments			
Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTHWEST OF ARKADDELPHIA, GO EAST ON HIGHWAY 8 FOR 10.6 MILES TO MT ZION ROAD AND TURN RIGHT AND GO 0.4 MILES TO THE MARK ON THE LEFT, NORTH 43.9 FEET OF THE CENTERLINE OF A DRIVEWAY, EAST 15.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 15.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100024A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	100024
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100025	Date Monumented 8/10/2011	Monumented By AHTD	County CLARK	Route 8	Job Number: 070363
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	563,971.6528	
Easting (M)	292,058.3512	
Elevation (M)*	117.910	
Northing (SFT)	1,850,296.9976	
Easting (SFT)	958,194.7739	
Elevation (SFT)*	386.842	

Convergence Angle	0	39	18.2784442
Scale Factor	0.999920144		
Elevation Adjust. Factor	0.9999814965		
Combined Adjust. Factor	0.9999016420		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTHWEST OF ARKADELPHIA, GO EAST ON HIGHWAY 8 FOR 8.0 MILES TO THE MARK ON THE RIGHT, WEST 45.8 FEET OF THE CENTERLINE OF A GRAVEL DRIVEWAY, SOUTH 19.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 14.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100025 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;"> Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136. </td> </tr> </table>	Comments	Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.
Comments			
Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100025A	Date Monumented 8/10/2011	Monumented By AHTD	County CLARK	Route 8	Job Number: 070363
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	563,938.1579	
Easting (M)	292,474.3648	
Elevation (M)*	124.797	
Northing (SFT)	1,850,187.1064	
Easting (SFT)	959,559.6452	
Elevation (SFT)*	409.437	

Convergence Angle	0	39	9.1819491
Scale Factor	0.999920136		
Elevation Adjust. Factor	0.9999804157		
Combined Adjust. Factor	0.9999005533		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTHWEST OF ARKADELPHIA, GO EAST ON HIGHWAY 8 FOR 8.25 MILES TO THE MARK ON THE LEFT, EAST 14.5 FEET OF THE CENTERLINE OF A CONCRETE DRIVEWAY, NORTH 28.0 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100025A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <p>Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100026	Date Monumented 8/10/2011	Monumented By AHTD	County CLARK	Route 8	Job Number: 070363
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	567,471.7170	
Easting (M)	289,013.4970	
Elevation (M)*	134.230	
Northing (SFT)	1,861,780.1249	
Easting (SFT)	948,205.1147	
Elevation (SFT)*	440.388	

Convergence Angle	0	40	25.6947403
Scale Factor	0.999921288		
Elevation Adjust. Factor	0.9999789353		
Combined Adjust. Factor	0.9999002250		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	344	23.16	76.0
MK # 2	FENCE CORNER	54	4.57	15.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.</td> </tr> </table>	Comments	Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.
Comments			
Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.			

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTHWEST OF ARKADELPHIA, GO EAST ON HIGHWAY 8 FOR 5.0 MILES TO THE MARK ON THE LEFT, NORTHWEST 155 FEET OF THE CENTERLINE OF A WILLIAMS DRIVE, NORTHEAST 27.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTHWEST 14.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100026 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

AZ Mark Station	100026A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100026A	Date Monumented 8/10/2011	Monumented By AHTD	County CLARK	Route 8	Job Number: 070363
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	566,984.6586
Easting (M)	289,290.9660
Elevation (M)*	124.314
Northing (SFT)	1,860,182.1674
Easting (SFT)	949,115.4443
Elevation (SFT)*	407.852

Convergence Angle	0 40	19.5061394
Scale Factor	0.999921111	
Elevation Adjust. Factor	0.9999804915	
Combined Adjust. Factor	0.9999016041	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTHWEST OF ARKADELPHIA, GO EAST ON HIGHWAY 8 FOR 5.35 MILES TO THE MARK ON THE RIGHT, WEST 179.5 FEET OF THE CENTERLINE OF A GRAVEL DRIVEWAY, SOUTH 30.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 6.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100026A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<p>Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100027	Date Monumented 8/10/2011	Monumented By AHTD	County CLARK	Route 8	Job Number: 070363
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	569,230.1505
Easting (M)	285,743.4818
Elevation (M)*	150.151
Northing (SFT)	1,867,549.2521
Easting (SFT)	937,476.7399
Elevation (SFT)*	492.621

Convergence Angle	0 41 37.6218755
Scale Factor	0.999921966
Elevation Adjust. Factor	0.9999764369
Combined Adjust. Factor	0.9998984048

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	SEE COMMENTS
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 09
Latitude	34 11 10.4238132
Longitude	93 14 22.5039048
Ellipsoid Height (M):	123.168
Geoid Height (M):	-27.000

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTH OF HOLLYWOOD, GO EAST ON HIGHWAY 8 FOR 2.6 MILES TO THE MARK ON THE RIGHT, SOUTH 37.9 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 1.7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100027 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station 100027A
Geodetic Azimuth
Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	Comments Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100027A	Date Monumented 8/10/2011	Monumented By AHTD	County CLARK	Route 8	Job Number: 070363
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	569,236.2587	
Easting (M)	286,339.4843	
Elevation (M)*	142.562	
Northing (SFT)	1,867,569.2921	
Easting (SFT)	939,432.1247	
Elevation (SFT)*	467.721	

Convergence Angle	0	41	24.5962671
Scale Factor	0.999921972		
Elevation Adjust. Factor	0.9999776279		
Combined Adjust. Factor	0.9998996017		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTHWEST OF ARKADELPHIA, GO EAST ON HIGHWAY 8 FOR 2.95 MILES TO THE MARK ON THE LEFT, NORTH 42.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 12 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100027A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <p>Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100028	Date Monumented 8/10/2011	Monumented By AHTD	County CLARK	Route 8	Job Number: 070363
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	570,032.9804
Easting (M)	281,624.7653
Elevation (M)*	144.983
Northing (SFT)	1,870,183.2032
Easting (SFT)	923,963.9175
Elevation (SFT)*	475.664

Convergence Angle	0 43	7.8669843
Scale Factor	0.999922285	
Elevation Adjust. Factor	0.9999772480	
Combined Adjust. Factor	0.9998995348	

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTH OF HOLLYWOOD, GO WEST ON HIGHWAY 8 FOR 0.3 MILES TO THE MARK ON THE RIGHT, NORTH 55.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 10.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100028 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

AZ Mark Station	100028A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100028A	Date Monumented 8/10/2011	Monumented By AHTD	County CLARK	Route 8	Job Number: 070363
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	570,143.2381	
Easting (M)	281,183.3664	
Elevation (M)*	146.742	
Northing (SFT)	1,870,544.9403	
Easting (SFT)	922,515.7613	
Elevation (SFT)*	481.435	

Convergence Angle	0	43	17.5459872
Scale Factor	0.999922331		
Elevation Adjust. Factor	0.9999769720		
Combined Adjust. Factor	0.9998993048		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments
Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.

Location Description	
<p>TO REACH THE STATION MARK FROM THE STATION MARK IS LOCATED IN THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 53 AND 8, NORTH OF HOLLYWOOD, 56.3 FEET SOUTH OF THE CENTERLINE OF HIGHWAY 8, EAST 76.7 FEET OF THE CENTERLINE OF HIGHWAY 53 AND NORTH 21.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100028A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND,</p>	

AZ Mark Station	100028
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100029	Date Monumented 9/25/2012	Monumented By AHTD	County Clark	Route 67	Job Number: 070376,070460
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	570,930.3449	0.0020			
Easting (M)	304,499.3399	0.0020			
Elevation (M)*	77.045				
Northing (SFT)	1,873,127.3066				
Easting (SFT)	999,011.5843				
Elevation (SFT)*	252.771				

Convergence Angle	0	34	48.0299948
Scale Factor	0.999922804		
Elevation Adjust. Factor	0.9999879093		
Combined Adjust. Factor	0.9999107143		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	12	12.3697080
Longitude	93	2	10.6854000
Ellipsoid Height:	50.362		
Grid Northing (Meters)	570,930.3453		
Grid Easting (Meters)	304,499.3455		

Location Description			
To reach from the Hot Springs and Clark Co. line on hwy.67, go southwest for .55miles to the station on the left. A standard alum cap stamped 100029 2012 on a 4ft 5/8 rebar driven 2" below ground surface. Lat-034.12.11 Long-093.02.13			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL of hwy.67		13.10	43.0
MK # 2	CL of Riverbend Rd.		28.95	95.0
MK # 3	West of mi.marker7	63	32.00	105.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHP Ref Mon # 3 ARPB	DIGITAL LEVELS WERE RAN BY CREW S5102 FROM NGS BM A 152 DURING JOB 070376 IN OCTOBER 2012. NOTE: LEVELS WERE RAN THROUGH NGS BM B 152 DURING LEVEL RUN AND THE DETERMINED ELEV. (264.9063) MISSED THE PUBLISHED ELEV. (264.954) BY 0.05'. Position updated by S5101 in 02/2017 during job 070460

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100029A	Date Monumented 9/25/2012	Monumented By AHTD	County Clark	Route 67	Job Number: 070376,070460
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	571,139.7019	0.0020	
Easting (M)	305,041.1451	0.0020	
Elevation (M)*	62.529		
Northing (SFT)	1,873,814.1720		
Easting (SFT)	1,000,789.1569		
Elevation (SFT)*	205.146		

Convergence Angle	0	34	36.2308216
Scale Factor	0.999922904		
Elevation Adjust. Factor	0.9999901873		
Combined Adjust. Factor	0.9999130921		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	12	19.3419720
Longitude	93	1	49.6038720
Ellipsoid Height:	35.854		
Grid Northing (Meters)	571,139.7053		
Grid Easting (Meters)	305,041.1489		

Location Description				
To reach from the Hot Springs and Clark Co. line on hwy.67, Go southwest for .20miles to the station on the right. A standard alum cap stamped 100029A 2012 on a 3.ft 5/8 rebar driven 2" below ground surface. Lat-034.12.19 Long-093.01.49				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	North of CL of hwy.67		12.50	41.0	AZ Mark Station
MK # 2	South of 3 strand barb Fence		11.28	37.0	Geodetic Azimuth
MK # 3	Power Pole	62	24.69	81.0	Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	DIGITAL LEVELS WERE RAN BY CREW S5102 FROM NGS BM A 152 DURING JOB 070376 IN OCTOBER 2012. NOTE: LEVELS WERE RAN THROUGH NGS BM B 152 DURING LEVEL RUN AND THE DETERMINED ELEV. (264.9063) MISSED THE PUBLISHED ELEV. (264.954) BY 0.05'. Position updated by S5101 in 02/2017 during job 070460
Ref Mon # 2 ARHP	
Ref Mon # 3 ARPB	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100030	Date Monumented 8/1/2017	Monumented By B&F	County CLARK	Route 51	Job Number: 070439, 070442
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	562,177.9113 0.0040
Easting (M)	300,335.5697 0.0040
Elevation (M)*	90.371

Northing (SFT)	1,844,412.0307	
Easting (SFT)	985,350.9483	
Elevation (SFT)*	296.492	

Convergence Angle	0	36	17.0405082
Scale Factor	0.999919691		
Elevation Adjust. Factor	0.9999858180		
Combined Adjust. Factor	0.9999055102		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (2011)
Latitude	34 7 26.9114196
Longitude	93 4 49.7206308
Ellipsoid Height:	63.554
Grid Northing (Meters)	562,177.9085
Grid Easting (Meters)	300,335.5741

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 51/HWY 8(EXIT 73), LOCATED IN ARKADELPHIA ALONG HWY 51(AKA PINE STREET). FROM I-30 EXIT 73, GO EAST ON HWY 51 FOR 1.19 KM (.75 MI) TO THE INTERSECTION OF 26TH ST., TURN LEFT (NORTH) ONTO 26TH ST. AND GO 0.12 KM (.07 MI) TO THE STATION ON THE LEFT. THE STATION IS SOUTH OF THE ENTRANCE TO "OUACHITA BEHAVIORAL HEALTH & WELLNESS" (205 N. 26TH ST.)

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	EDGE OUACHITA SIGN	182	7.10	23.3
MK # 2	POWER POLE	75	16.67	54.7
MK # 3	CORNER WOODEN FENCE	9	25.79	84.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM (ARCM)	ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING FOR JOB #070439 IN SUMMER OF 2017 FROM NGS 2ND ORDER BM's X 136 & Y 136 (ORIG. STATIC USED GEOID 12A W/-26.8024m GEOID HT.)
Ref Mon # 2 ARGS (ARHP)	
Ref Mon # 3 ARHP, ARLR (ARLR, ARRV)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100030A	Date Monumented 8/1/2017	Monumented By B&F	County CLARK	Route 51	Job Number: 070439
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	561,785.8284 0.0030
Easting (M)	300,345.2364 0.0030
Elevation (M)*	80.279
Northing (SFT)	1,843,125.6720
Easting (SFT)	985,382.6631
Elevation (SFT)*	263.383

Convergence Angle	0 36 16.7389885
Scale Factor	0.999919596
Elevation Adjust. Factor	0.9999874017
Combined Adjust. Factor	0.9999069988

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By: 3rd Order - Digital Levels	Elevation Datum: NAVD 88
Geoid Datum: Geoid 12A	Latitude 34 7 14.1896604
Longitude 93 4 49.1820780	Ellipsoid Height (M): 53.472 0.0060
Geoid Height (M): -26.800 0.0060	

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 51/HWY 8(EXIT 73), LOCATED IN ARKADELPHIA ALONG HWY 51(AKA PINE STREET). FROM I-30 EXIT 73, GO EAST ON HWY 51 FOR 1.19 KM (.75 MI) TO THE INTERSECTION OF 26TH ST., TURN RIGHT(SOUTH) ONTO 26TH ST. AND GO 0.27 KM (.17 MI) TO THE STATION ON THE LEFT, NORTHEAST CORNER OF 26TH ST. & CLINTON ST. THE STATION IS ON A VACANT LOT.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	STOP SIGN	193	6.49	21.3
MK # 2	POWER POLE	264	23.26	76.3
MK # 3	DISCOUNT TOBACCO SIGN	300	30.48	100.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM Ref Mon # 2 ARHP Ref Mon # 3 ARLR, ARRV	Comments ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING FOR JOB #070439 IN SUMMER OF 2017 FROM NGS 2ND ORDER BM's X 136 & Y 136
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100031	Date Monumented 8/1/2017	Monumented By B&F	County CLARK	Route 51	Job Number: 070439, 070442
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	561,973.1012	0.0020	
Easting (M)	302,630.7840	0.0020	
Elevation (M)*	74.786		

Northing (SFT)	1,843,740.0829		
Easting (SFT)	992,881.1638		
Elevation (SFT)*	245.360		

Convergence Angle	0	35	26.8619870
Scale Factor	0.999919647		
Elevation Adjust. Factor	0.9999882638		
Combined Adjust. Factor	0.9999079118		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (2011)		
Latitude	34	7	21.0415728
Longitude	93	3	20.0664972
Ellipsoid Height:	48.003		
Grid Northing (Meters)	561,973.1024		
Grid Easting (Meters)	302,630.7913		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	STOP SIGN		66	2.07	6.8
MK # 2	APEX SIGN		300	4.45	14.6
MK # 3	FIRE HYDRANT		134	18.50	60.7

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM (ARCM) Ref Mon # 2 ARGS (ARHP) Ref Mon # 3 ARHP, ARLR (ARLR, ARRV)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING FOR JOB #070439 IN SUMMER OF 2017 FROM NGS 2ND ORDER BM's X 136 & Y 136 (ORIG. STATIC USED GEOID 12A W/-26.7761m GEIOD HT.)</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING FOR JOB #070439 IN SUMMER OF 2017 FROM NGS 2ND ORDER BM's X 136 & Y 136 (ORIG. STATIC USED GEOID 12A W/-26.7761m GEIOD HT.)
Comments			
ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING FOR JOB #070439 IN SUMMER OF 2017 FROM NGS 2ND ORDER BM's X 136 & Y 136 (ORIG. STATIC USED GEOID 12A W/-26.7761m GEIOD HT.)			

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 51/HWY 8(EXIT 73), LOCATED IN ARKADELPHIA ALONG HWY 51(AKA PINE STREET). FROM I-30 EXIT 73, GO EAST ON HWY 51 FOR 3.51 KM (2.18 MI) TO THE INTERSECTION OF N.8TH ST. STATION IS ON THE LEFT AT THE NORTHWEST INTERSECTION OF HWY 51 & N.8TH ST. AT BACK EDGE OF SIDEWALK.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100031A	Date Monumented 8/1/2017	Monumented By B&F	County CLARK	Route 51	Job Number: 070439, 070442
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	561,558.3216 0.0020
Easting (M)	302,626.7123 0.0020
Elevation (M)*	74.253

Northing (SFT)	1,842,379.2601	
Easting (SFT)	992,867.8053	
Elevation (SFT)*	243.613	

Convergence Angle	0	35	26.8575019
Scale Factor	0.999919549		
Elevation Adjust. Factor	0.9999883474		
Combined Adjust. Factor	0.9999078973		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (2011)
Latitude	34 7 7.5782892
Longitude	93 3 20.0582856
Ellipsoid Height:	47.465
Grid Northing (Meters)	561,558.3198
Grid Easting (Meters)	302,626.7247

Location Description

 TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 51/HWY 8(EXIT 73), LOCATED IN ARKADELPHIA ALONG HWY 51(AKA PINE STREET). FROM I-30 EXIT 73, GO EAST ON HWY 51 FOR 3.51 KM (2.18 MI) TO THE INTERSECTION OF N.8TH ST., TURN RIGHT(SOUTH) ONTO N.8TH ST. AND GO 0.41 KM (.25 MI) TO THE STATION ON THE LEFT, AT "TOWN HALL" BUILDING IN LAWN(700 CLAY ST.

Location Reference Marks

Description	Azimuth	Distance							
		Meters Feet							
MK # 1 STOP SIGN	333	4.02 13.2	<table style="width: 100%;"> <tr> <td style="width: 60%;">AZ Mark Station</td> <td style="width: 40%;">100031</td> </tr> <tr> <td>Geodetic Azimuth</td> <td></td> </tr> <tr> <td>Grid Azimuth</td> <td></td> </tr> </table>	AZ Mark Station	100031	Geodetic Azimuth		Grid Azimuth	
AZ Mark Station	100031								
Geodetic Azimuth									
Grid Azimuth									
MK # 2 NW BUILDING CORNER	117	25.06 82.2							
MK # 3									

<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> Area Reference Monuments (used for Processing) </div> <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td style="width: 80%;">ARCM (ARCM)</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARGS (ARHP)</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARHP, ARLR (ARLR, ARRV)</td> </tr> </table>	Ref Mon # 1	ARCM (ARCM)	Ref Mon # 2	ARGS (ARHP)	Ref Mon # 3	ARHP, ARLR (ARLR, ARRV)	<div style="border: 1px solid black; padding: 5px;"> Comments ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING FOR JOB #070439 IN SUMMER OF 2017 FROM NGS 2ND ORDER BM's X 136 & Y 136 (ORIG. STATIC USED GEOID 12A W/-26.7736m GEIOD HT.) </div>
Ref Mon # 1	ARCM (ARCM)						
Ref Mon # 2	ARGS (ARHP)						
Ref Mon # 3	ARHP, ARLR (ARLR, ARRV)						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100032	Date Monumented 9/25/2017	Monumented By AHTD	County CLARK	Route 7	Job Number: 012275
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	569,288.5456	0.0030			
Easting (M)	301,209.0218	0.0030			
Elevation (M)*					
Northing (SFT)	1,867,740.8367				
Easting (SFT)	988,216.5990				
Elevation (SFT)*					

Convergence Angle	0	35	59.5886415		
Scale Factor	0.999922064				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND I 30, IN CADDO VALLEY, GO NORTH ON HIGHWAY 7 FOR 0.25 MILES TO THE MARK ON THE RIGHT, EAST 37' OF THE C/L OF THE HIGHWAY AND NORTH 79' OF THE C/L FROST ROAD AND 105' SOUTH OF A GRAVEL DRIVEWAY. THE MARK IS A STANDARD 2" CAP STAMPED "2017 100032 ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	SS MANHOLE	102		13.26	43.5
MK # 2	SW CORNER OF HOUSE	29		32.31	106.0
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM</p> <p>Ref Mon # 2 ARLR</p> <p>Ref Mon # 3 ARHP</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100032A	Date Monumented 9/25/2017	Monumented By AHTD	County CLARK	Route 7	Job Number: 012275, 070509
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	569,762.5180	0.0030			
Easting (M)	301,029.7623	0.0030			
Elevation (M)*					

Northing (SFT)	1,869,295.8611				
Easting (SFT)	987,628.4785				
Elevation (SFT)*					

Convergence Angle	0	36	3.6156782		
Scale Factor	0.999922265				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (1997)				
Latitude	34	11	33.3074472		
Longitude	93	4	25.7346444		
Ellipsoid Height:	43.796				
Grid Northing (Meters)	569,762.5180				
Grid Easting (Meters)	301,029.7623				

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	UNDERGROUND CABLE MKR		114	14.90	48.9
MK # 2	COMBINATION POLE		5	35.35	116.0
MK # 3					

AZ Mark Station	100032
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARLR Ref Mon # 3 ARHP	OLD REFERENCE MARKS FOR SUPERCEDED POSITION WERE ARCM, ARLR & ARHP. OLD GEOID HT. -26.846m FROM GEOID 12 B.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100033	Date Monumented 9/25/2017	Monumented By AHTD	County CLARK	Route 7	Job Number: 012275
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	571,834.9248	0.0030			
Easting (M)	300,401.4086	0.0030			
Elevation (M)*					
Northing (SFT)	1,876,095.0824				
Easting (SFT)	985,566.9547				
Elevation (SFT)*					

Convergence Angle	0	36	17.8296102
Scale Factor	0.999923212		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	SIGN	68	5.30	17.4	100033A
MK # 2	UNDERGROUND CABLE MKR	60	16.15	53.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	
Ref Mon # 2 ARLR	
Ref Mon # 3 ARHP	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100033A	Date Monumented 9/25/2017	Monumented By AHTD	County CLARK	Route 7	Job Number: 012275
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	572,195.1991	0.0030			
Easting (M)	300,136.7389	0.0030			
Elevation (M)*					
Northing (SFT)	1,877,277.0824				
Easting (SFT)	984,698.6175				
Elevation (SFT)*					

Convergence Angle	0	36	23.6998631
Scale Factor	0.999923386		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	EDGE OF SIGN	170	25.15	82.5	100033
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	
Ref Mon # 2 ARLR	
Ref Mon # 3 ARHP	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100034	Date Monumented 3/19/2020	Monumented By ARDOT	County CLARK	Route I-30	Job Number: 070513
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	538,340.2673	0.0020			
Easting (M)	280,510.9078	0.0020			
Elevation (M)*					
Northing (SFT)	1,766,204.6936				
Easting (SFT)	920,309.5367				
Elevation (SFT)*					

Convergence Angle	0	43	23.4703619
Scale Factor	0.999920923		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
Exit 65 Intersection of highway 53 & I-30 8.9 miles. 45' NW of fence 15' to EP			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	South corner of billboard	280			AZ Mark Station 100034A
MK # 2	To closest powerpole	146			Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARDOT CORS SITES ARCM, ARDQ, ARGS & ARHP
Ref Mon # 2 ARDQ	
Ref Mon # 3 ARGS, ARHP	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100034A	Date Monumented 3/19/2020	Monumented By ARDOT	County CLARK	Route I-30	Job Number: 070513
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	538,030.4164	0.0020	
Easting (M)	280,241.7422	0.0020	
Elevation (M)*			
Northing (SFT)	1,765,188.1245		
Easting (SFT)	919,426.4492		
Elevation (SFT)*			

Convergence Angle	0	43	29.2490140
Scale Factor	0.999921033		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	8" pine	213	
MK # 2	RW Marker	58	
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARDOT CORS SITES ARCM, ARDQ, ARGS & ARHP
Ref Mon # 2 ARDQ	
Ref Mon # 3 ARGS, ARHP	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	33 54 15.6254508
Longitude	93 17 41.9482428
Ellipsoid Height (M):	47.925 0.0110
Geoid Height (M):	-26.829 0.0110

Location Description
2.1 Miles from intersection of HWY67/HWY51 on East bound on-ramp, stationed on the left 55' S of I-30 shoulder, 66' S of I-30 EP, 60" West of Center of On-Ramp

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100035	Date Monumented 7/8/2020	Monumented By ARDOT	County CLARK	Route 67	Job Number: 070442
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	560,390.9346 0.0010
Easting (M)	302,207.1326 0.0020
Elevation (M)*	56.257
Northing (SFT)	1,838,549.2579
Easting (SFT)	991,491.2342
Elevation (SFT)*	184.570

Convergence Angle	0 35 35.7574267
Scale Factor	0.999919295
Elevation Adjust. Factor	0.9999911715
Combined Adjust. Factor	0.9999104672

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/GUY	280	12.59	41.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY/AUG. 2020 FOR JOB #070442 FROM ARDOT GPS POINTS 100031 & 100031A AND FROM NGS 2ND ORDER BM U 348. ELEV. ON GPS POINTS 100031 & 100031A ARE BASED ON NGS 2ND ORDER BM's X 136 & Y 136.
Ref Mon # 2 ARGS	
Ref Mon # 3 ARHP, ARLR	

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67S, 51N AND 7S, IN ARKADELPHIA, GO SOUTH ON HIGHWAY 67 FOR 1.05 MILES TO THE MARK ON THE RIGHT, NORTHWEST OF THE C/L OF THE HIGHWAY 24.5' AND NORTHEAST 56' OF THE C/L OF SIPLAST ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 100035" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	34 6 29.5496064
Longitude	93 3 35.9602740
Ellipsoid Height (M):	29.447 0.0040
Geoid Height (M):	-26.796 0.0040

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100035A	Date Monumented 7/8/2020	Monumented By ARDOT	County CLARK	Route 67	Job Number: 070442
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	560,031.0099	0.0020			
Easting (M)	301,865.1456	0.0020			
Elevation (M)*	55.869				
Northing (SFT)	1,837,368.4050				
Easting (SFT)	990,369.2319				
Elevation (SFT)*	183.296				

Convergence Angle	0	35	43.1440791
Scale Factor	0.999919224		
Elevation Adjust. Factor	0.9999912325		
Combined Adjust. Factor	0.9999104572		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	320	18.38	60.3
MK # 2	COMBINATION POLE	318	6.83	22.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARGS Ref Mon # 3 ARHP, ARLR	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY/AUG. 2020 FOR JOB #070442 FROM ARDOT GPS POINTS 100031 & 100031A AND FROM NGS 2ND ORDER BM U 348. ELEV. ON GPS POINTS 100031 & 100031A ARE BASED ON NGS 2ND ORDER BM's X 136 & Y 136.

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67S, 51N AND 7S, IN ARKADELPHIA, GO SOUTH ON HIGHWAY 67 FOR 1.35 MILES TO THE MARK ON THE RIGHT, NORTHWEST OF THE C/L OF THE HIGHWAY 34.2' AND SOUTHWEST 25.8' OF THE C/L OF A GRAVEL DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 100035A" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	100035
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100036	Date Monumented 7/8/2020	Monumented By ARDOT	County CLARK	Route N/A	Job Number: 070442
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	560,690.5206 0.0020
Easting (M)	300,262.6348 0.0020
Elevation (M)*	85.804
Northing (SFT)	1,839,532.1497
Easting (SFT)	985,111.6610
Elevation (SFT)*	281.509

Convergence Angle	0 36 18.2904530
Scale Factor	0.999919353
Elevation Adjust. Factor	0.9999865347
Combined Adjust. Factor	0.9999058888

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MANHOLE	150	12.74	41.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM Ref Mon # 2 ARGS Ref Mon # 3 ARHP, ARLR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY/AUG. 2020 FOR JOB #070442 FROM GPS POINT 100021 WHICH IS BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN DEC. 2011 FROM 2ND ORDER NGS BM's X 136 & Y 136.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY/AUG. 2020 FOR JOB #070442 FROM GPS POINT 100021 WHICH IS BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN DEC. 2011 FROM 2ND ORDER NGS BM's X 136 & Y 136.
Comments			
ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY/AUG. 2020 FOR JOB #070442 FROM GPS POINT 100021 WHICH IS BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN DEC. 2011 FROM 2ND ORDER NGS BM's X 136 & Y 136.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF I 30 AND STATE HIGHWAY 51, IN ARKADDELPHIA, GO SOUTH ON HIGHWAY 51 0.8 MILES TO 26th STREET AND TURN RIGHT AND GO 0.8 MILES TO WILLOWBROOK STREET AND TURN LEFT AND GO 125' TO THE MARK ON THE RIGHT, 15.8' SOUTHWEST OF THE C/L OF THE STREET AND 64' NORTHWEST OF THE C/L OF A CONCRETE DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 100036" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	34 6 38.6127936
Longitude	93 4 51.9540816
Ellipsoid Height (M):	58.998 0.0050
Geoid Height (M):	-26.821 0.0050

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100036A	Date Monumented 7/8/2020	Monumented By ARDOT	County CLARK	Route N/A	Job Number: 070442
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	560,380.9062 0.0020
Easting (M)	300,503.7267 0.0020
Elevation (M)*	62.461
Northing (SFT)	1,838,516.3564
Easting (SFT)	985,902.6433
Elevation (SFT)*	204.923

Convergence Angle	0 36 12.9540988
Scale Factor	0.999919290
Elevation Adjust. Factor	0.9999901980
Combined Adjust. Factor	0.9999094888

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By: 3rd Order - Digital Levels	Elevation Datum: NAVD 88
Geoid Datum: Geoid 18	Latitude 34 6 28.6466832
Longitude 93 4 42.4196112	Ellipsoid Height (M): 35.670 0.0060
Geoid Height (M): -26.817 0.0060	

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF I 30 AND STATE HIGHWAY 51, IN ARKADELPHIA, GO SOUTH ON HIGHWAY 51 0.8 MILES TO 26th STREET AND TURN RIGHT AND GO 0.8 MILES TO WILLOWBROOK STREET AND TURN LEFT AND GO 0.25 MILES TO THE MARK ON THE RIGHT, 45.7' SOUTH OF THE C/L OF THE STREET AND 114.4' WEST OF THE C/L OF A CONCRETE DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 100036A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	315	12.83	42.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY/AUG. 2020 FOR JOB #070442 FROM GPS POINT 100021 WHICH IS BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN DEC. 2011 FROM 2ND ORDER NGS BM's X 136 & Y 136.
Ref Mon # 2 ARGS	
Ref Mon # 3 ARHP, ARLR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 10015	Date Monumented 8/31/2017	Monumented By AHTD	County ARKANSAS	Route 79	Job Number: 20630
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	597,603.1388	0.0020	
Easting (M)	434,544.7392	0.0020	
Elevation (M)*	59.993		

Northing (SFT)	1,960,636.2979	
Easting (SFT)	1,425,668.8652	
Elevation (SFT)*	196.828	

Convergence Angle	0	12	37.4514964
Scale Factor	0.999944408		
Elevation Adjust. Factor	0.9999905852		
Combined Adjust. Factor	0.9999349937		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID12B		
Latitude	34	26	51.6812640
Longitude	91	37	26.6605320
Ellipsoid Height (M):	33.493	0.0080	
Geoid Height (M):	-26.500		

Location Description

From the intersection of Hwy. 79 and Goldman Sunshine Rd., go South 1.0 mile to the station on the left at the intersection of Roth Prairie Rd. and Goldman Loop, 27' NW of witness post, 19' S. of CL 343/Goldman Sunshine Rd., 39' E of CL Roth Prairie Rd.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WITNESS POST		3.66	12.0
MK # 2	CENTER OF gOLDMAN IOOP		4.42	14.5
MK # 3	CL of Roth Prairie Rd.		11.87	39.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPB	Elev. based on static GPS constraining Ortho. ht. at ARPB.
Ref Mon # 2 ARLR	
Ref Mon # 3 ARWY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
11 DWB 1967	9/13/1995	USC&GS	CRAWFORD	59	040226

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	134,609.9300	
Easting (M)	186,219.1990	
Elevation (M)*	276.268	
Northing (SFT)	441,632.7453	
Easting (SFT)	610,954.1554	
Elevation (SFT)*	906.389	

Convergence Angle	-1	22	18.1822164
Scale Factor	0.999936492		
Elevation Adjust. Factor	0.9999566464		
Combined Adjust. Factor	0.9998931412		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	292	13.50	44.3
MK # 2	TELEPHONE POLE	86	0.45	1.5
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	92170001
Ref Mon # 2	FORT SMITH GIS NO. 103
Ref Mon # 3	GRASSY OFFSET

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 31 24.9907872

Longitude 94 21 26.3200140

Ellipsoid Height (M): 246.345

Geoid Height (M): -29.923

Location Description

FROM THE JCT. OF HWY. 59 AND I-40 IN THE TOWN OF VAN BUREN, GO NORTH ON HWY. 59 FOR 7.017 KM (4.36 MILES) TO THE STATION ON THE RIGHT JUST NORTH OF THE SMALL TOWN OF FIGURE FIVE. THE STATION IS 25.75 METERS SOUTHEAST OF A GRAVEL DRIVE, 13.10 METERS NORTHWEST OF A GRAVEL DRIVE, 11.54 METERS NORTH-NORTHWEST OF THE CENTER OF HWY. 59, 0.45 METERS NORTH OF A WITNESS POST, 0.35 METERS SOUTH OF A CHAIN LINK FENCE SURROUNDING A USED CAR LOT AND 0.23 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD TABLET SET IN A CONCRETE POST PROJECTING 4" AND STAMPED "11 DWB 1967 906". THIS STATION IS A USC&GS BENCH MARK.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 11 DWB AZ	Date Monumented 9/13/1995	Monumented By AHTD	County CRAWFORD	Route 59	Job Number: 040226
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1986)
Northing (M)	134,406.4061
Easting (M)	186,413.0370
Elevation (M)*	276.482
Northing (SFT)	440,965.0173
Easting (SFT)	611,590.1056
Elevation (SFT)*	907.091

Convergence Angle	-1	22	13.5939790
Scale Factor	0.999936526		
Elevation Adjust. Factor	0.9999566128		
Combined Adjust. Factor	0.9998931416		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	310	17.00	55.8
MK # 2	COMBINATION POLE	234	22.10	72.5
MK # 3	POWER POLE	82	5.80	19.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 92170001	THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. "11 DWB 1967".
Ref Mon # 2 FORT SMITH GIS NO. 103	
Ref Mon # 3 GRASSY OFFSET	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110001	Date Monumented 7/13/1994	Monumented By AHTD	County CLAY	Route 62	Job Number: R00084, 050324
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	234,311.9065	0.0020			
Easting (M)	544,303.4607	0.0030			
Elevation (M)*	91.219	0.0011			
Northing (SFT)	768,738.3132				
Easting (SFT)	1,785,768.9373				
Elevation (SFT)*	299.273				

Convergence Angle	0	56	11.2952013		
Scale Factor	1.000045997				
Elevation Adjust. Factor	0.9999856850				
Combined Adjust. Factor	1.0000316814				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (1986)				
Latitude	36	26	4.6494132		
Longitude	90	23	26.3954148		
Ellipsoid Height:	61.810				
Grid Northing (Meters)	234,312.1501				
Grid Easting (Meters)	544,303.3820				

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	FENCE CORNER		193	3.10	10.2
MK # 2	COMBINATION POLE		261	19.50	64.0
MK # 3	POWER POLE		22	17.40	57.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="CORNPOR"/>	Elevation by static GPS by crew S5113 in August 2016 for job 050324
Ref Mon # 2 <input type="text" value="HOPEWELL"/>	
Ref Mon # 3 <input type="text" value="NONE"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110002	Date Monumented 7/13/1994	Monumented By AHTD	County CLAY	Route 62	Job Number: R00084
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1986)
Northing (M)	234,303.4931
Easting (M)	549,106.8400
Elevation (M)*	96.646
Northing (SFT)	768,710.7103
Easting (SFT)	1,801,528.0242
Elevation (SFT)*	317.079

Convergence Angle	0	58	3.4900235
Scale Factor	1.000045791		
Elevation Adjust. Factor	0.9999848333		
Combined Adjust. Factor	1.0000306236		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
FROM THE POST OFFICE IN McDOUGAL, GO EAST ON HWY. 62 FOR 4.950 KM (3.08 MILES) TO THE STATION ON THE LEFT AT THE EDGE OF A CULTIVATED FIELD. THE STATION IS 16.10 METERS NORTH OF THE CENTERLINE OF HWY. 62 AND 1.39 METERS SOUTH OF A WITNESS POST AND A POWER POLE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "110002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CORNPORT	Cross Reference Job: R00119 and R00125
Ref Mon # 2 HOPEWELL	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110003	Date Monumented 7/13/1994	Monumented By AHTD	County CLAY	Route 62	Job Number: R00084
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	233,918.4261				
Easting (M)	554,140.6710				
Elevation (M)*	100.587				
Northing (SFT)	767,447.3696				
Easting (SFT)	1,818,043.1848				
Elevation (SFT)*	330.009				

Convergence Angle	1	0	0.9117360
Scale Factor	1.000044693		
Elevation Adjust. Factor	0.9999842149		
Combined Adjust. Factor	1.0000289072		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>FROM THE JCT. OF HWY. 62 AND HWY. 139 IN POLLARD, GO WEST ON HWY. 62 FOR 1.609 KM (1.0 MILES) TO THE STATION ON THE RIGHT AT THE EDGE OF A CULTIVATED FIELD. THE STATION IS 21.7 METERS NORTH OF THE CENTERLINE OF HWY. 62, 16 METERS EAST OF A FIELD ENTRANCE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "110003" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	EAST END OF A 36" CONCRETE PIPE	252	13.40	44.0	Geodetic Azimuth	95 50 46.631671
MK # 2	NONE				Grid Azimuth	94 50 45.825963
MK # 3	NONE					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 CORNPORT</p> <p>Ref Mon # 2 HOPEWELL</p> <p>Ref Mon # 3 NONE</p>	<p style="text-align: center;">Comments</p> <p>Cross Reference Job: R00119 and R00125</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110003A	Date Monumented 7/13/1994	Monumented By AHTD	County CLAY	Route 62	Job Number: R00084
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	233,880.8321	
Easting (M)	554,584.0870	
Elevation (M)*	101.435	
Northing (SFT)	767,324.0300	
Easting (SFT)	1,819,497.9588	
Elevation (SFT)*	332.791	

Convergence Angle	1	0	11.2529799
Scale Factor	1.000044588		
Elevation Adjust. Factor	0.9999840818		
Combined Adjust. Factor	1.0000286691		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF A 24" CONCRETE PIPE	356	6.40	21.0
MK # 2	TELEPHONE JUNCTION BOX	82	1.85	6.1
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="CORNPOR"/>	Cross Reference Job: R00119 and R00125
Ref Mon # 2 <input type="text" value="HOPEWELL"/>	
Ref Mon # 3 <input type="text" value="NONE"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110004	Date Monumented 7/13/1994	Monumented By AHTD	County CLAY	Route 62	Job Number: R00084
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 233,688.5371		Latitude 36 25 36.8750928
Easting (M) 557,897.7440		Longitude 90 14 21.1574220
Elevation (M)* 128.885		Ellipsoid Height (M): 99.501
		Geoid Height (M): -29.384

Northing (SFT) 766,693.1421		
Easting (SFT) 1,830,369.5151		
Elevation (SFT)* 422.850		

Convergence Angle 1 1 28.5669689		
Scale Factor 1.000044006		
Elevation Adjust. Factor 0.9999797741		
Combined Adjust. Factor 1.0000237793		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

FROM THE POST OFFICE IN PIGGOTT, GO WEST ON HWY. 62 FOR 7.04 KM (4.38 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.3 METERS NORTHEAST OF THE CENTERLINE OF HWY. 62 AND 0.48 METERS SOUTHWEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "110004" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station 110004A
MK # 2	NONE				Geodetic Azimuth 146 22 08.63460
MK # 3	NONE				Grid Azimuth 145 20 40.13581

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 CORNPORT</p> <p>Ref Mon # 2 HOPEWELL</p> <p>Ref Mon # 3 NONE</p>	<p style="text-align: center;">Comments</p> <p>Cross Reference Job: R00119 and R00125</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110005	Date Monumented 7/13/1994	Monumented By AHTD	County CLAY	Route 62	Job Number: R00084
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	230,878.2941	
Easting (M)	560,549.2730	
Elevation (M)*	113.240	
Northing (SFT)	757,473.2032	
Easting (SFT)	1,839,068.7398	
Elevation (SFT)*	371.522	

Convergence Angle	1	2	29.3012522
Scale Factor	1.000037491		
Elevation Adjust. Factor	0.9999822293		
Combined Adjust. Factor	1.0000197196		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	328	11.30	37.1
MK # 2	4" PEACH TREE	265	22.60	74.1
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="CORNPOR"/>	Cross Reference Job: R00119 and R00125
Ref Mon # 2 <input type="text" value="HOPEWELL"/>	
Ref Mon # 3 <input type="text" value="NONE"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110006	Date Monumented 7/20/1999	Monumented By AHTD	County CLAY	Route 90	Job Number: 100394
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	215,295.7680	
Easting (M)	553,422.4130	
Elevation (M)*	86.708	
Northing (SFT)	706,349.5322	
Easting (SFT)	1,815,686.7000	
Elevation (SFT)*	284.474	

Convergence Angle	0	59	36.5928545
Scale Factor	1.000005775		
Elevation Adjust. Factor	0.9999863929		
Combined Adjust. Factor	0.9999921678		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	183	13.49	44.3
MK # 2	RAILROAD CROSSING SWITCH STAND	340	8.81	28.9
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 POCAPORT	Elevation by 3-wire from NGS Point Z 187
Ref Mon # 2 KENNPORT	
Ref Mon # 3 AHTD PAR 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110006A	Date Monumented 7/20/1999	Monumented By AHTD	County CLAY	Route 90	Job Number: 100394
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	215,629.2460
Easting (M)	553,400.7010
Elevation (M)*	90.829
Northing (SFT)	707,443.6179
Easting (SFT)	1,815,615.4665
Elevation (SFT)*	297.995

Convergence Angle	0 59 36.2215782
Scale Factor	1.000006398
Elevation Adjust. Factor	0.9999857462
Combined Adjust. Factor	0.9999921441

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 90, LOCATED IN RECTOR, GO NORTH ON STATE HIGHWAY 90 FOR 0.63 KM (0.39 MI) TO THE STATION ON THE LEFT. THE STATION IS 27.20 METERS NORTH OF THE CENTER OF 3RD STREET, 9.50 METERS WEST OF THE CENTER OF STATE HIGHWAY 90 (MAIN STREET), 5.55 METERS SOUTH OF THE CENTER OF A CONCRETE ENTRANCE TO A PAVED PARKING LOT, 0.90 METERS EAST OF THE EAST EDGE OF A CONCRETE SIDEWALK AND 0.83 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110006A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 334.184 METERS.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	LIGHT POLE	180	19.50	64.0		110006
MK # 2	NONE					177 16 05.47746
MK # 3	NONE					176 16 29.25896

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 POCAPORT	
Ref Mon # 2 KENNPORT	
Ref Mon # 3 AHTD PAR 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110007	Date Monumented 7/20/1999	Monumented By AHTD	County CLAY	Route 90	Job Number: 100394
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	220,692.4920	
Easting (M)	553,324.2600	
Elevation (M)*	113.457	
Northing (SFT)	724,055.2842	
Easting (SFT)	1,815,364.6764	
Elevation (SFT)*	372.234	

Convergence Angle	0	59	36.4863803
Scale Factor	1.000016178		
Elevation Adjust. Factor	0.9999821952		
Combined Adjust. Factor	0.9999983729		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHERN MOST ONE OF THREE WATER METERS	275	5.48	18.0
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	POCAPORT
Ref Mon # 2	KENNPOR
Ref Mon # 3	AHTD PAR 1

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110007A	Date Monumented 7/20/1999	Monumented By AHTD	County CLAY	Route 90	Job Number: 100394
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	221,026.8791	
Easting (M)	552,873.0380	
Elevation (M)*	113.162	
Northing (SFT)	725,152.3525	
Easting (SFT)	1,813,884.2922	
Elevation (SFT)*	371.266	

Convergence Angle	0	59	26.0979858
Scale Factor	1.000016862		
Elevation Adjust. Factor	0.9999822415		
Combined Adjust. Factor	0.9999991032		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	312	14.55	47.7
MK # 2	MOST WESTERLY IN LINE BRACE POST	84	5.30	17.4
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>POCAPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>KENNPOR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD PAR 1</td> </tr> </table>	Ref Mon # 1	POCAPORT	Ref Mon # 2	KENNPOR	Ref Mon # 3	AHTD PAR 1	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	POCAPORT							
Ref Mon # 2	KENNPOR							
Ref Mon # 3	AHTD PAR 1							
Comments								

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 36 18 49.0428072

Longitude 90 17 51.6217056

Ellipsoid Height (M): 84.736

Geoid Height (M): -28.460

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 90, LOCATED IN RECTOR, GO NORTH ON STATE HIGHWAY 90 FOR 6.33 KM (3.93 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.60 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 90 AND 3.32 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "110007A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVER FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 561.617 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110008A	Date Monumented 7/20/1999	Monumented By AHTD	County CLAY	Route 90	Job Number: 100394
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	221,409.3381
Easting (M)	549,385.8230
Elevation (M)*	120.541
Northing (SFT)	726,407.1367
Easting (SFT)	1,802,443.3210
Elevation (SFT)*	395.475

Convergence Angle	0 58	4.9174496
Scale Factor	1.000017750	
Elevation Adjust. Factor	0.9999810835	
Combined Adjust. Factor	0.9999988332	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	94	25.68	84.3
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 POCAPORT	
Ref Mon # 2 KENNPORT	
Ref Mon # 3 AHTD PAR 1	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 19 3.3823704
Longitude	90 20 11.1313428
Ellipsoid Height (M):	92.086
Geoid Height (M):	-28.455

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 90, LOCATED IN RECTOR, GO NORTH ON STATE HIGHWAY 90 FOR 9.90 KM (6.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.50 METERS WEST OF THE EXTENDED CENTER OF A GRAVEL DRIVEWAY, 9.40 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 90 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110008A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 595.646 METERS.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110009	Date Monumented 7/20/1999	Monumented By AHTD	County CLAY	Route 90	Job Number: 100394
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	223,145.3711	
Easting (M)	544,682.4060	
Elevation (M)*	102.186	
Northing (SFT)	732,102.7717	
Easting (SFT)	1,787,012.1937	
Elevation (SFT)*	335.255	

Convergence Angle	0	56	15.8774014
Scale Factor	1.000021444		
Elevation Adjust. Factor	0.9999839639		
Combined Adjust. Factor	1.0000054076		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	99	10.63	34.9
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 POCAPORT Ref Mon # 2 KENNPORT Ref Mon # 3 AHTD PAR 1	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 20 2.2325712
Longitude	90 23 18.5178552
Ellipsoid Height (M):	73.714
Geoid Height (M):	-28.472

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 90, LOCATED IN RECTOR, GO NORTH ON STATE HIGHWAY 90 FOR 14.65 KM (9.10 MI) TO THE JUNCTION OF STATE HIGHWAY 141 ON THE RIGHT, CONTINUE WEST ON STATE HIGHWAY 90 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.89 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 90 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110009 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	110009A
Geodetic Azimuth	272 06 11.59293
Grid Azimuth	271 09 55.59638

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110009A	Date Monumented 7/20/1999	Monumented By AHTD	County CLAY	Route 90	Job Number: 100394
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	223,156.7890	
Easting (M)	544,121.1030	
Elevation (M)*	92.865	
Northing (SFT)	732,140.2319	
Easting (SFT)	1,785,170.6521	
Elevation (SFT)*	304.675	

Convergence Angle	0	56	2.7871743
Scale Factor	1.000021486		
Elevation Adjust. Factor	0.9999854267		
Combined Adjust. Factor	1.0000069124		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF CMP	260	12.19	40.0
MK # 2	POWER POLE	130	31.49	103.3
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 POCAPORT Ref Mon # 2 KENNPORT Ref Mon # 3 AHTD PAR 1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">AZ Mark Station</th> <td style="text-align: center;">110009</td> </tr> <tr> <th style="text-align: center;">Geodetic Azimuth</th> <td style="text-align: center;">92 05 58.264405</td> </tr> <tr> <th style="text-align: center;">Grid Azimuth</th> <td style="text-align: center;">91 09 55.596379</td> </tr> </table> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>	AZ Mark Station	110009	Geodetic Azimuth	92 05 58.264405	Grid Azimuth	91 09 55.596379
AZ Mark Station	110009						
Geodetic Azimuth	92 05 58.264405						
Grid Azimuth	91 09 55.596379						

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 20 2.9003856
Longitude	90 23 41.0135532
Ellipsoid Height (M):	64.394
Geoid Height (M):	-28.471

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 90, LOCATED IN RECTOR, GO NORTH ON STATE HIGHWAY 90 FOR 14.65 KM (9.10 MI) TO THE JUNCTION OF STATE HIGHWAY 141 ON THE RIGHT, CONTINUE WEST ON STATE HIGHWAY 90 FOR 0.89 KM (0.55 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.41 METERS EAST OF THE CENTER OF A FIELD ENTRANCE, 9.72 METERS NORTH OF THE CENTER OF STATE HIGHWAY 90 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110009A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 561.410 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110010	Date Monumented 1/6/2004	Monumented By AHTD	County CLAY	Route CR 341	Job Number: 100528
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	236,899.6121	
Easting (M)	564,124.5360	
Elevation (M)*		
Northing (SFT)	777,228.1440	
Easting (SFT)	1,850,798.5819	
Elevation (SFT)*		

Convergence Angle	1	3	55.3895911
Scale Factor	1.000051297		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	233	25.70	84.3
MK # 2	TELEPHONE RISER	214	17.50	57.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CNWM	
Ref Mon # 2 AHTD PAR 1	
Ref Mon # 3 BLMM	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 27 17.3425824
Longitude	90 10 8.8411440
Ellipsoid Height (M):	66.066
Geoid Height (M):	-28.633

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 62 AND THE WEST END OF THE ST. FRANCIS RIVER BRIDGE, IN ST. FRANCIS, GO WEST ON HIGHWAY 62 0.30 MILES TO CLAY COUNTY ROAD# 341 AND TURN RIGHT ONTO COUNTY ROAD 341 AND GO 1.25 MILES TO THE STATION ON THE RIGHT. THE STATION MARK IS NORTH 8.50 METERS OF THE CENTERLINE OF COUNTY ROAD 341 AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110010 2004" ON TOP OF A 1.22 MEETER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	110010A
Geodetic Azimuth	268 39 40
Grid Azimuth	267 35 45

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110010A	Date Monumented 1/6/2004	Monumented By AHTD	County CLAY	Route CR 341	Job Number: 100528
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas North</td> <td>301</td> </tr> <tr> <td>Horizontal Datum</td> <td>NAD 83 (1997)</td> </tr> <tr> <td>Northing (M)</td> <td>236,877.9181</td> </tr> <tr> <td>Easting (M)</td> <td>563,607.8400</td> </tr> <tr> <td>Elevation (M)*</td> <td></td> </tr> <tr> <td>Northing (SFT)</td> <td>777,156.9696</td> </tr> <tr> <td>Easting (SFT)</td> <td>1,849,103.3884</td> </tr> <tr> <td>Elevation (SFT)*</td> <td></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Convergence Angle</td> <td>1</td> <td>3</td> <td>43.3084113</td> </tr> <tr> <td>Scale Factor</td> <td colspan="3">1.000051268</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td colspan="3"></td> </tr> <tr> <td>Combined Adjust. Factor</td> <td colspan="3"></td> </tr> </table>	Zone	Zone Code	Arkansas North	301	Horizontal Datum	NAD 83 (1997)	Northing (M)	236,877.9181	Easting (M)	563,607.8400	Elevation (M)*		Northing (SFT)	777,156.9696	Easting (SFT)	1,849,103.3884	Elevation (SFT)*		Convergence Angle	1	3	43.3084113	Scale Factor	1.000051268			Elevation Adjust. Factor				Combined Adjust. Factor				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Vertical Determined By:</td> <td style="width: 50%;">NONE</td> </tr> <tr> <td>Elevation Datum:</td> <td>NONE</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td>36 27 16.9501104</td> </tr> <tr> <td>Longitude</td> <td>90 10 29.6027832</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>79.136</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.634</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">Location Description</p> <p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 62 AND THE WEST END OF THE ST. FRANCIS RIVER BRIDGE, IN ST. FRANCIS, GO WEST ON HIGHWAY 62 0.30 MILES TO CLAY COUNTY ROAD# 341 AND TURN RIGHT ONTO COUNTY ROAD 341 AND GO 1.6 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS EAST 44.7 METERS OF THE JUNCTION OF COUNTY ROAD 341 AND COUNTY ROAD 347 AND SOUTH 6.80 METERS OF THE CENTERLINE OF COUNTY ROAD 341 AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110010A 2004" ON TOP OF A 1.22 MEETER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p> </div>	Vertical Determined By:	NONE	Elevation Datum:	NONE	Geoid Datum:		Latitude	36 27 16.9501104	Longitude	90 10 29.6027832	Ellipsoid Height (M):	79.136	Geoid Height (M):	-28.634
Zone	Zone Code																																																
Arkansas North	301																																																
Horizontal Datum	NAD 83 (1997)																																																
Northing (M)	236,877.9181																																																
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SUPERCEDED CONTROL												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)	
Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
Grid Northing (Meters)												
Grid Easting (Meters)												

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: CNWM</p> <p>Ref Mon # 2: AHTD PAR 1</p> <p>Ref Mon # 3: BLMM</p>	<div style="border: 1px solid black; height: 100px; width: 100%;"></div> <p style="text-align: center; margin-top: 5px;">Comments</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110011	Date Monumented 1/6/2004	Monumented By AHTD	County CLAY	Route CR 347	Job Number: 100528
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	234,311.9087	
Easting (M)	544,303.4589	
Elevation (M)*		
Northing (SFT)	768,738.3205	
Easting (SFT)	1,785,768.9314	
Elevation (SFT)*		

Convergence Angle	0	56	11.2951594
Scale Factor	1.000045997		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 62 AND THE WST END OF THE ST. FRANCIS RIVER BRIDGE, IN ST. FRANCIS, GO WEST ON HIGHWAY 62 0.30 MILES TO CLAY COUNTY ROAD# 341 AND TURN RIGHT ONTO COUNTY ROAD 341 AND GO 1.6 MILES TO CLAY COUNTY ROAD 347 AND TURN RIGHT ONTO COUNTY ROAD 347 AND GO 2.5 MILES TO THE STATION ON THE LEFT. THE STATION IS LOCATED AT THE APROX PI OF THE CURVE AND SOUTH 6.50 METERS OF THE CENTERLINE OF THE COUNTY ROAD AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110011 2004" ON TOP OF A 1.22 MEETER IRON ROD DRIVEN TO 0.25 METERS BELOW THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: CNWM</p> <p>Ref Mon # 2: AHTD PAR 1</p> <p>Ref Mon # 3: BLMM</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110011A	Date Monumented 1/6/2004	Monumented By AHTD	County CLAY	Route CR 347	Job Number: 100528
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	240,470.9311	
Easting (M)	564,025.4910	
Elevation (M)*		
Northing (SFT)	788,945.0465	
Easting (SFT)	1,850,473.6317	
Elevation (SFT)*		

Convergence Angle	1	3	54.6269238
Scale Factor	1.000060004		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	11" PEAR TREE	220	10.70	35.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CNWM	
Ref Mon # 2 AHTD PAR 1	
Ref Mon # 3 BLMM	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 29 13.2360684
Longitude	90 10 10.1517960
Ellipsoid Height (M):	65.193
Geoid Height (M):	-28.661

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 62 AND THE WEST END OF THE ST. FRANCIS RIVER BRIDGE, IN ST. FRANCIS, GO WEST ON HIGHWAY 62 0.30 MILES TO CLAY COUNTY ROAD# 341 AND TURN RIGHT ONTO COUNTY ROAD 341 AND GO 1.6 MILES TO CLAY COUNTY ROAD 347 AND TURN RIGHT ONTO COUNTY ROAD 347 AND GO 2.75 MILES TO THE STATION ON THE RIGHT. THE STATION MARK IS NORTHEAST 4.3 METERS OF THE CENTERLINE OF COUNTY ROAD 347 AND NORTHEAST 8.80 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110011A 2004" ON TOP OF A 1.22 MEETER IRON ROD DRIVEN 0.25 METERS BELOW THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110012	Date Monumented 1/20/2004	Monumented By AHTD	County CLAY	Route 62	Job Number: 100528
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	235,245.7041	
Easting (M)	566,132.6460	
Elevation (M)*		
Northing (SFT)	771,801.9475	
Easting (SFT)	1,857,386.8561	
Elevation (SFT)*		

Convergence Angle	1	4	41.5784081
Scale Factor	1.000047286		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTH END OF 18" CMP	236	4.00	13.1	
MK # 2	FE CORNER	40	2.60	8.5	
MK # 3					

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>CNWM</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD PAR 1</td> </tr> <tr> <td>Ref Mon # 3</td> <td>BLMM</td> </tr> </table>	Ref Mon # 1	CNWM	Ref Mon # 2	AHTD PAR 1	Ref Mon # 3	BLMM	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	CNWM						
Ref Mon # 2	AHTD PAR 1						
Ref Mon # 3	BLMM						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 26 22.4800116
Longitude	90 8 49.4651580
Ellipsoid Height (M):	60.314
Geoid Height (M):	28.614

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 62 AND THE WEST END OF THE ST. FRANCIS RIVER BRIDGE, IN ST. FRANCIS, GO WEST ON HIGHWAY 62 1.4 MILES TO THE STATION ON THE LEFT, SOUTH 4.30 METERS OF A FARM TURN IN, EAST 4.35 METERS OF THE CENTERLINE OF HIGHWAY 62, AND WEST 1.80 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110012 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	110012A
Geodetic Azimuth	182 37 23
Grid Azimuth	181 32 41

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110012A	Date Monumented 1/20/2004	Monumented By AHTD	County CLAY	Route 62	Job Number: 100528
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	234,489.0691	
Easting (M)	566,112.2410	
Elevation (M)*		
Northing (SFT)	769,319.5542	
Easting (SFT)	1,857,319.9107	
Elevation (SFT)*		

Convergence Angle	1	4	40.7692020
Scale Factor	1.000045516		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF A DOUBLE BOX CULVERT	26	9.90	32.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CNWM	
Ref Mon # 2 AHTD PAR 1	
Ref Mon # 3 BLMM	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 25 57.9511632
Longitude	90 8 50.8557876
Ellipsoid Height (M):	58.786
Geoid Height (M):	28.608

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND THE WEST END OF THE ST. FRANCIS RIVER BRIDGE, IN ST. FRANCIS, GO WEST ON HIGHWAY 62 1.8 MILES TO THE STATION ON THE RIGHT, NORTH 5.0 METERS OF A FARM ROAD TURN IN, WEST 16.70 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST OF A 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110012A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110013	Date Monumented 2/19/2019	Monumented By ARDOT	County CLAY	Route 62	Job Number: 101004
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	228,854.5808	0.0020	
Easting (M)	565,896.4383	0.0020	
Elevation (M)*			
Northing (SFT)	750,833.7372		
Easting (SFT)	1,856,611.8980		
Elevation (SFT)*			

Convergence Angle	1	4	33.2571777
Scale Factor	1.000032784		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH HDWL UNDER 62	74	31.09	102.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG	
Ref Mon # 2 ARPG	
Ref Mon # 3 MOKE	

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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110013A	Date Monumented 2/19/2019	Monumented By ARDOT	County CLAY	Route 1	Job Number: 101004
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	228,838.0825 0.0020
Easting (M)	566,314.3478 0.0020
Elevation (M)*	

Northing (SFT)	750,779.6090	
Easting (SFT)	1,857,982.9894	
Elevation (SFT)*		

Convergence Angle	1	4	43.0047406
Scale Factor	1.000032730		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	16.6 WEST OF WEST END RCP	170	5.06	16.6
MK # 2	FENCE CORNER	233	18.89	62.0
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARPG</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARPG</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MOKE</td> </tr> </table>	Ref Mon # 1	ARPG	Ref Mon # 2	ARPG	Ref Mon # 3	MOKE	<table border="1" style="width: 100%; height: 100px;"> <tr> <td style="text-align: center;">Comments</td> </tr> </table>	Comments
Ref Mon # 1	ARPG							
Ref Mon # 2	ARPG							
Ref Mon # 3	MOKE							
Comments								

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	Geoid12B
Latitude	36 22 54.5369448
Longitude	90 8 47.0139900
Ellipsoid Height (M):	55.797 0.0090
Geoid Height (M):	-28.608 0.0090

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 62, EAST OF PIGGOTT, GO NORTH ON HIGHWAY 1 0.25 MILES TO THE MARK ON THE RIGHT, SOUTH 16' OF THE C/L OF THE HIGHWAY AND 20.6' WEST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "110013A 2019" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	110013A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110014	Date Monumented 11/4/2020	Monumented By ARDOT	County CLAY	Route CR-109	Job Number: 100512
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	222,458.6772	0.0020
Easting (M)	512,997.2578	0.0020
Elevation (M)*		
Northing (SFT)	729,849.8434	
Easting (SFT)	1,683,058.5033	
Elevation (SFT)*		

Convergence Angle	0	43	56.4542458
Scale Factor	1.000020981		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF A GATE	210°	1.68	5.5
MK # 2	POWER POLE	70°	41.15	135.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB Ref Mon # 2 ARPG Ref Mon # 3 MODP, MOKE	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110014A	Date Monumented 11/4/2020	Monumented By ARDOT	County CLAY	Route CR-109	Job Number: 100512
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	222,462.5381	0.0020	
Easting (M)	513,330.8714	0.0020	
Elevation (M)*			
Northing (SFT)	729,862.5104		
Easting (SFT)	1,684,153.0339		
Elevation (SFT)*			

Convergence Angle	0	44	4.2384291
Scale Factor	1.000020981		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE / TRANS	55°	49.23	161.5
MK # 2	NW CORNER OF A BUILDING	115°	35.20	115.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

AZ Mark Station	110014
Geodetic Azimuth	270° 4 ' 17"
Grid Azimuth	269° 20 ' 13"

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110015	Date Monumented 11/4/2020	Monumented By ARDOT	County CLAY	Route CR-116	Job Number: 100512
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	224,892.2928	0.0020
Easting (M)	515,449.8837	0.0020
Elevation (M)*		
Northing (SFT)	737,834.1306	
Easting (SFT)	1,691,105.1601	
Elevation (SFT)*		

Convergence Angle	0	44	54.4142067
Scale Factor	1.000025985		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	120	18.75	61.5	
MK # 2	WELL HEAD	110	3.93	12.9	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2: ARPG	
Ref Mon # 3: MODP, MOKE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110015A	Date Monumented 11/4/2020	Monumented By ARDOT	County CLAY	Route CR-116	Job Number: 100512
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	224,927.7244	0.0020	
Easting (M)	515,937.4425	0.0020	
Elevation (M)*			
Northing (SFT)	737,950.3758		
Easting (SFT)	1,692,704.7593		
Elevation (SFT)*			

Convergence Angle	0	45	5.8025883
Scale Factor	1.000026046		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE / GUY	320	21.03	69.0
MK # 2	EAST END OF CULVERT	330	5.55	18.2
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110016	Date Monumented 11/4/2020	Monumented By ARDOT	County CLAY	Route CR-125	Job Number: 100512,101172
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	226,964.0772	0.0020
Easting (M)	518,715.2157	0.0020
Elevation (M)*		
Northing (SFT)	744,631.3099	
Easting (SFT)	1,701,818.1702	
Elevation (SFT)*		

Convergence Angle	0	46	11.2623459
Scale Factor	1.000030322		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	100	24.80	81.4
MK # 2	POWER POLE	210	4.90	16.1
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments
STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110016A	Date Monumented 11/4/2020	Monumented By ARDOT	County CLAY	Route CR-110	Job Number: 100512,101172
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	227,333.4220	0.0020
Easting (M)	518,691.3004	0.0020
Elevation (M)*		
Northing (SFT)	745,843.0687	
Easting (SFT)	1,701,739.7081	
Elevation (SFT)*		

Convergence Angle	0	46	10.8199519
Scale Factor	1.000031124		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SERVICE POLE	340	5.20	17.1
MK # 2	POWER POLE	65	16.00	52.5
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARJB</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARPG</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MODP, MOKE</td> </tr> </table>	Ref Mon # 1	ARJB	Ref Mon # 2	ARPG	Ref Mon # 3	MODP, MOKE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG </td> </tr> </table>	Comments	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 1	ARJB								
Ref Mon # 2	ARPG								
Ref Mon # 3	MODP, MOKE								
Comments									
STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG									

Location Description
TO REACH THE STATION MARK FROM THE JCT OF US-67 & US-62 IN CORNING, GO SOUTH 0.5 MILES TO CR-125. THEN GO SOUTH 2.5 MILES TO STATION ON RIGHT. 28.6' WEST OF C/L CR-125. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "110016A 2020" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	110016
Geodetic Azimuth	177° 3 ' 54"
Grid Azimuth	176° 17 ' 43"

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110017	Date Monumented 11/4/2020	Monumented By ARDOT	County CLAY	Route N/A	Job Number: 100512,101172
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	228,995.1023	0.0020	
Easting (M)	521,184.4727	0.0020	
Elevation (M)*			
Northing (SFT)	751,294.7648		
Easting (SFT)	1,709,919.3908		
Elevation (SFT)*			

Convergence Angle	0	47	9.5473459
Scale Factor	1.000034693		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid18
Latitude	36 23 23.4520908
Longitude	90 38 57.3920160
Ellipsoid Height (M):	55.737 0.0070
Geoid Height (M):	-28.615 0.0070

Location Description
TO REACH THE STATION MARK FROM THE JCT OF US-67 & US-62 IN CORNING, GO SOUTH 4.0 MILES TO CR-131. THEN GO SOUTH 1.0 MILES TO CR-110. THEN GO EAST 0.5 MILES TO A DIRT FARM ROAD. THEN GO SOUTH 0.5 MILES TO STATION ON RIGHT. 15' NORTH OF C/L EAST/WEST FARM ROAD. 13.8' NORTH OF C/L NORTH/SOUTH DITCH. THE MARK IS A STANDARD 2½" CAP STAMPED "110017 2020" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110017A	Date Monumented 11/4/2020	Monumented By ARDOT	County CLAY	Route N/A	Job Number: 100512,101172
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	229,000.2562	0.0020	
Easting (M)	521,639.5703	0.0020	
Elevation (M)*			
Northing (SFT)	751,311.6739		
Easting (SFT)	1,711,412.4902		
Elevation (SFT)*			

Convergence Angle	0	47	20.1737787
Scale Factor	1.000034691		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF A CULVERT	90	7.30	24.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110018	Date Monumented 11/4/2020	Monumented By ARDOT	County CLAY	Route CR-135	Job Number: 100512,101172
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	232,086.8508	0.0010	
Easting (M)	521,931.5487	0.0020	
Elevation (M)*			
Northing (SFT)	761,438.2763		
Easting (SFT)	1,712,370.4227		
Elevation (SFT)*			

Convergence Angle	0	47	27.9853709
Scale Factor	1.000041631		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WELL HEAD	75	6.61	21.7
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB Ref Mon # 2 ARPG Ref Mon # 3 MODP, MOKE	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

Location Description	
TO REACH THE STATION MARK FROM THE JCT OF US-67 & US-62 IN CORNING, GO SOUTH 3.1 MILES TO CR-135. THEN GO NORTH 0.4 MILES TO STATION ON RIGHT NEAR A WELL PUMP. 30.6' EAST OF C/L CR-135. 58.6' SOUTH OF A FIELD ENTRANCE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "110018 2020" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	110018A
Geodetic Azimuth	262° 35 ' 27"
Grid Azimuth	261° 47 ' 59"

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110018A	Date Monumented 11/4/2020	Monumented By ARDOT	County CLAY	Route ARM RD	Job Number: 100512,101172
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	232,027.4111	0.0020	
Easting (M)	521,519.0820	0.0020	
Elevation (M)*			
Northing (SFT)	761,243.2646		
Easting (SFT)	1,711,017.1882		
Elevation (SFT)*			

Convergence Angle	0	47	18.3333996
Scale Factor	1.000041508		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WELL HEAD	85	9.60	31.5
MK # 2	WATER HYDRANT	160	3.28	10.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110019	Date Monumented 11/3/2020	Monumented By ARDOT	County CLAY	Route ARM RD	Job Number: 100512,101172
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	233,875.2262	0.0020	
Easting (M)	524,341.1305	0.0020	
Elevation (M)*			
Northing (SFT)	767,305.6380		
Easting (SFT)	1,720,275.8590		
Elevation (SFT)*			

Convergence Angle	0	48	24.8474362
Scale Factor	1.000045687		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WELL HEAD	250	8.08	26.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB Ref Mon # 2 ARPG Ref Mon # 3 MODP, MOKE	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

Location Description			
TO REACH THE STATION MARK FROM THE JCT OF US-67 & SR-328 NORTH OF CORNING, GO WEST ON SR-328 1.0 MILES TO CR-143. THEN GO SOUTH 1.5 MILES TO A EAST/WEST FARM ROAD NEXT TO A POWER SUBSTATION. THEN GO WEST 0.5 MILES TO STATION ON LEFT NEAR A WELL PUMP. 25' SOUTH OF C/L EAST/WEST FARM RD. THE MARK IS A STANDARD 2½" CAP STAMPED "110019 2020" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110019A	Date Monumented 11/3/2020	Monumented By ARDOT	County CLAY	Route ARM RD	Job Number: 100512,101172
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	234,281.7721 0.0010
Easting (M)	524,363.8771 0.0020
Elevation (M)*	
Northing (SFT)	768,639.4473
Easting (SFT)	1,720,350.4868
Elevation (SFT)*	

Convergence Angle	0	48	25.5125490
Scale Factor	1.000046637		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WELL HEAD	20	13.26	43.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110020	Date Monumented 11/3/2020	Monumented By ARDOT	County CLAY	Route US-67	Job Number: 100512,101172
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	236,057.4197	0.0020
Easting (M)	526,829.1338	0.0020
Elevation (M)*		
Northing (SFT)	774,465.0511	
Easting (SFT)	1,728,438.5831	
Elevation (SFT)*		

Convergence Angle	0	49	23.6965025
Scale Factor	1.000050754		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18" CMP CUS	175	25.00	82.0
MK # 2	POWER POLE+TRANS	290	32.92	108.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110020A	Date Monumented 11/3/2020	Monumented By ARDOT	County CLAY	Route US-67	Job Number: 100512,101172
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	236,375.9033	0.0020
Easting (M)	526,972.6342	0.0020
Elevation (M)*		
Northing (SFT)	775,509.9427	
Easting (SFT)	1,728,909.3840	
Elevation (SFT)*		

Convergence Angle	0	49	27.1563539
Scale Factor	1.000051510		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	LIGHT POLE	255	17.53	57.5	
MK # 2	LIGHT POLE	345	13.71	45.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB Ref Mon # 2 ARPG Ref Mon # 3 MODP, MOKE	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

Location Description	
TO REACH THE STATION MARK FROM THE JCT OF US-67 & SR-328 NORTH OF CORNING, GO NORTH ON US-67 0.05 MILES TO STATION ON LEFT. 41.5' WEST OF C/L US-67. THE MARK IS A STANDARD 2½" CAP STAMPED "110020A 2020" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	110020
Geodetic Azimuth	205° 4 ' 45"
Grid Azimuth	204° 15 ' 18"

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110021	Date Monumented 11/3/2020	Monumented By ARDOT	County CLAY	Route US-67	Job Number: 100512,101172
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	238,668.5584	0.0010	
Easting (M)	529,365.2261	0.0020	
Elevation (M)*			
Northing (SFT)	783,031.7620		
Easting (SFT)	1,736,759.0793		
Elevation (SFT)*			

Convergence Angle	0	50	23.8450023
Scale Factor	1.000056980		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	45	21.80	71.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110021A	Date Monumented 11/3/2020	Monumented By ARDOT	County CLAY	Route US-67	Job Number: 100512,101172
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	239,010.7584	0.0020	
Easting (M)	529,693.7759	0.0020	
Elevation (M)*			
Northing (SFT)	784,154.4632		
Easting (SFT)	1,737,836.9964		
Elevation (SFT)*			

Convergence Angle	0	50	31.6411346
Scale Factor	1.000057809		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	36" OAK TREE	27	49.07	161.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110022	Date Monumented 11/3/2020	Monumented By ARDOT	County CLAY	Route CR-278	Job Number: 100512,101172
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	241,190.0519	0.0020	
Easting (M)	530,597.0634	0.0020	
Elevation (M)*			
Northing (SFT)	791,304.3619		
Easting (SFT)	1,740,800.5322		
Elevation (SFT)*			

Convergence Angle	0	50	53.5068260
Scale Factor	1.000063194		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	105	25.00	82.0	110022A
MK # 2	FENCE CORNER	30	7.38	24.2	270° 8 ' 9"
MK # 3					269° 17 ' 16"

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110022A	Date Monumented 11/3/2020	Monumented By ARDOT	County CLAY	Route CR-278	Job Number: 100512,101172
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	241,185.0402	0.0020	
Easting (M)	530,193.9881	0.0020	
Elevation (M)*			
Northing (SFT)	791,287.9194		
Easting (SFT)	1,739,478.1093		
Elevation (SFT)*			

Convergence Angle	0	50	44.0821110
Scale Factor	1.000063196		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					110022	
MK # 2					90° 7 ' 60"	
MK # 3					89° 17 ' 16"	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 11B AZ RESET	Date Monumented 9/5/1996	Monumented By AHTD	County CONWAY	Route N/A	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	108,783.8451	
Easting (M)	334,095.4480	
Elevation (M)*	185.959	
Northing (SFT)	356,901.6651	
Easting (SFT)	1,096,111.4823	
Elevation (SFT)*	610.100	

Convergence Angle	0	25	18.2191430
Scale Factor	0.999947185		
Elevation Adjust. Factor	0.9999708178		
Combined Adjust. Factor	0.9999180044		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	0.080 METER PIPE PROJECTING 0.80 METER	27	4.00	13.1	AZ Mark Station NONE
MK # 2	METAL PIPE FENCE CORNER POST	348	10.45	34.3	Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 D 293 Ref Mon # 2 P 291 Ref Mon # 3 M 49 BM OFFSET	ELEVATION BY 3-WIRE USING U.S.A.F. BM NUMBER 11B AZ MK. ELEVATION = 191.231 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120001	Date Monumented 5/22/1990	Monumented By AHTD	County CLEBURNE	Route 25	Job Number: 5933
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 151,207.2910		Geoid Datum:
Easting (M) 418,231.3120		Latitude 35 41 45.9884832
Elevation (M)* 		Longitude 91 47 54.7977516
Northing (SFT) 496,085.9206		Ellipsoid Height (M): 336.592
Easting (SFT) 1,372,147.2295		Geoid Height (M): -28.308
Elevation (SFT)* 		

Convergence Angle 0 7 1.9945560	Location Description THE STATION IS 54 FEET NORTH OF THE CENTERLINE OF HWY. 25, 32 FEET SOUTH OF SPINKS ROAD AND 1.5 FEET EAST OF A WITNESS POST.
Scale Factor 0.999937834	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL	
Horizontal Datum 	
Latitude 	
Longitude 	
Ellipsoid Height: 	
Grid Northing (Meters) 	
Grid Easting (Meters) 	

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NBC IN 14" PECAN	3	20.75	68.1	NONE
MK # 2	NBC IN TOP OF FENCE CORNER POST	194	6.79	22.3	
MK # 3	NBC IN TOP OF FENCE CORNER POST	316	2.93	9.6	

Area Reference Monuments (used for Processing) Ref Mon # 1 ALMOND Ref Mon # 2 BATESVILLE Ref Mon # 3 SALADO	Comments Old point number 90120001
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120002	Date Monumented 5/31/1995	Monumented By AHTD	County CLEBURNE	Route 263	Job Number: 050228
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	145,027.8189		
Easting (M)	394,774.2820		
Elevation (M)*	272.586		
Northing (SFT)	475,812.1025		
Easting (SFT)	1,295,188.6235		
Elevation (SFT)*	894.309		

Convergence Angle	0	2	0.8744184
Scale Factor	0.999936417		
Elevation Adjust. Factor	0.9999572242		
Combined Adjust. Factor	0.9998936439		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	110	9.35	30.7
MK # 2	GUY POLE	170	21.30	69.9
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHR Ref Mon # 3 ARBT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 38 26.0308716
Longitude	92 3 27.7240068
Ellipsoid Height (M):	244.175
Geoid Height (M):	-28.293

Location Description
FROM THE JCT. OF HWY. 25 AND HWY. 92 IN THE SMALL VILLAGE OF DRASCO, GO WEST ON HWY. 92 FOR 11.26 KM (7.0 MILES) TO THE JCT. WITH HWY. 263 NORTH, TURN RIGHT AND NORTH ON HWY. 263 AND GO 4.35 KM (2.80 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 9.0 METERS NORTH OF THE CENTER OF HWY. 263 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "120002" SET ON TOP OF A 3/4" REBAR 0.60 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120002-1	Date Monumented 5/31/1995	Monumented By AHTD	County CLEBURNE	Route 263	Job Number: 005914
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1986)
Northing (M)	145,027.4900
Easting (M)	394,774.2000
Elevation (M)*	272.468
Northing (SFT)	475,811.0234
Easting (SFT)	1,295,188.3545
Elevation (SFT)*	893.922

Convergence Angle	0	2	0.8763101
Scale Factor	0.999936417		
Elevation Adjust. Factor	0.9999572427		
Combined Adjust. Factor	0.9998936624		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	110	9.35	30.7
MK # 2	GUY POLE	170	21.30	69.9
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HEBEPOR 1990	
Ref Mon # 2 ALMOND 1934	
Ref Mon # 3 5 JWO AND 6 JWO (BM'S)	

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NGVD 29

Geoid Datum:

Latitude 35 38 26.0201976

Longitude 92 3 27.7272576

Ellipsoid Height (M): 245.202

Geoid Height (M): -27.384

Location Description

FROM THE JCT. OF HWY. 25 AND HWY. 92 IN THE SMALL VILLAGE OF DRASCO, GO WEST ON HWY. 92 FOR 11.26 KM (7.0 MILES) TO THE JCT. WITH HWY. 263 NORTH, TURN RIGHT AND NORTH ON HWY. 263 AND GO 4.35 KM (2.80 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 9.0 METERS NORTH OF THE CENTER OF HWY. 263 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "120002" SET ON TOP OF A 3/4" REBAR 0.60 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120002A	Date Monumented 5/31/1995	Monumented By AHTD	County CLEBURNE	Route 263	Job Number: 005914
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	144,963.6109	
Easting (M)	395,023.2260	
Elevation (M)*	262.993	
Northing (SFT)	475,601.4468	
Easting (SFT)	1,296,005.3673	
Elevation (SFT)*	862.836	

Convergence Angle	0	1	55.1153453
Scale Factor	0.999936407		
Elevation Adjust. Factor	0.9999587295		
Combined Adjust. Factor	0.9998951392		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	267	3.95	13.0
MK # 2	8" PINE TREE	235	6.55	21.5
MK # 3	18" METAL CULVERT	277	17.35	56.9

Area Reference Monuments (used for Processing) Ref Mon # 1 HEBEPORT 1990 Ref Mon # 2 ALMOND 1934 Ref Mon # 3 5 JWO AND 6 JWO (BM'S)	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description	
FROM THE JCT. OF HWY. 25 AND HWY. 92 IN THE SMALL VILLAGE OF DRASCO, GO WEST ON HWY. 92 FOR 11.26 KM (7.0 MILES) TO THE JCT. WITH HWY. 263 ON THE RIGHT, TURN RIGHT AND NORTH ON HWY. 263 AND GO 4.265 KM (2.65 MILES) TO THE STATION ON THE RIGHT NEAR A PULL-OFF GOING INTO A CLEARCUT AREA. THE STATION IS 9.90 METERS NORTH OF THE CENTERLINE OF HWY. 263, 8.40 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "120002A" SET ON TOP OF A 3/4" REBAR 0.601 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.	

AZ Mark Station	120002
Geodetic Azimuth	284 25 50.35886
Grid Azimuth	284 27 45.47028

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120003	Date Monumented 11/29/1995	Monumented By AHTD	County CLEBURNE	Route 25	Job Number: 001657, 050216, 012227
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	116,697.4642 0.0030
Easting (M)	380,943.8114 0.0030
Elevation (M)*	184.329
Northing (SFT)	382,864.9305
Easting (SFT)	1,249,813.1546
Elevation (SFT)*	604.753

Convergence Angle	0 7 19.3860843
Scale Factor	0.999941947
Elevation Adjust. Factor	0.9999710736
Combined Adjust. Factor	0.9999130223

SUPERCEDED CONTROL	
Horizontal Datum	NAD 83 (1986)
Latitude	35 23 6.1432224
Longitude	92 12 35.0851608
Ellipsoid Height:	155.947
Grid Northing (Meters)	116,697.9301
Grid Easting (Meters)	380,943.9290

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	155	21.20	69.6
MK # 2	GUY POLE	240	9.95	32.6
MK # 3	WOODEN FENCE POST	48	25.65	84.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR, (SC) MAY 1940	PREVIOUS ELEV. (604.7465 SURV. FT.) BASED ON Digital Levels ran from NGS mark T 68 by crew S5104 in Sept 2009. UPDATED ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM T 68 IN 2015 BY S5112 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM NGS 2ND ORDER BM's Q 68 & Y 68.
Ref Mon # 2 ARBT, (SC)92230001	
Ref Mon # 3 P777, (SC)120009	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120003A	Date Monumented 11/29/1995	Monumented By AHTD	County CLEBURNE	Route 25	Job Number: 001657, 050216, 012227
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	117,017.4711	0.0030	
Easting (M)	381,407.5584	0.0030	
Elevation (M)*	189.489		

Northing (SFT)	383,914.8198		
Easting (SFT)	1,251,334.6312		
Elevation (SFT)*	621.682		

Convergence Angle	0	7	8.7086527
Scale Factor	0.999941774		
Elevation Adjust. Factor	0.9999702639		
Combined Adjust. Factor	0.9999120396		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	23	16.5592932
Longitude	92	12	16.7352444
Ellipsoid Height:	161.111		
Grid Northing (Meters)	117,017.9471		
Grid Easting (Meters)	381,407.6920		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	137	0.70	2.3
MK # 2	GAS METER	225	25.68	84.3
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR, (SC) MAY 1940	PREVIOUS ELEV. (621.6823 SURV. FT.) BASED ON Digital Levels ran from NGS mark T 68 by crew S5104 in Sept 2009. UPDATED ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM T 68 IN 2015 BY S5112 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM NGS 2ND ORDER BM's Q 68 & Y 68.
Ref Mon # 2 ARBT, (SC)92230001	
Ref Mon # 3 P777, (SC)120009	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120004	Date Monumented 11/29/1995	Monumented By AHTD	County CLEBURNE	Route 25	Job Number: 001657, 012227
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	119,568.6037 0.0030
Easting (M)	385,403.2884 0.0030
Elevation (M)*	179.409

Northing (SFT)	392,284.6606	
Easting (SFT)	1,264,443.9554	
Elevation (SFT)*	588.611	

Convergence Angle	0 5 36.6704241
Scale Factor	0.999940483
Elevation Adjust. Factor	0.9999718457
Combined Adjust. Factor	0.9999123303

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)
Latitude	35 24 39.5818128
Longitude	92 9 38.5668864
Ellipsoid Height:	151.067
Grid Northing (Meters)	119,569.0471
Grid Easting (Meters)	385,403.4130

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 356 IN QUITMAN GO NORTHERLY ON HWY-25 FOR 6.12 KM. (3.80 MI.) TO THE STATION ON THE RIGHT. 18.39 METERS SOUTHEAST OF THE CENTER OF HWY-25 AND 1.77 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120004 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	16" (0.40 M) PINE TREE	53	35.09	115.1
MK # 2	18" (0.45 M) PINE TREE	240	39.90	130.9
MK # 3	NONE			

AZ Mark Station	120004A
Geodetic Azimuth	52 56 20.01377
Grid Azimuth	53 01 56.66044

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR, (SC) MAY 1940	PREVIOUS ELEVATION (588.6307 SURV. FT.) BY 3-WIRE USING NGS Point F 207 *NOTE: F 207 LATER DESTROYED & NOT FOUND IN 2015. UPDATED ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM D 49 IN 2015 BY S5112 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM NGS 2ND ORDER BM's Q 68 & Y 68.
Ref Mon # 2 ARBT, (SC) 92230001	
Ref Mon # 3 P777, (SC) 120009	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120004A	Date Monumented 11/29/1995	Monumented By AHTD	County CLEBURNE	Route 25	Job Number: 001657, 012227
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas North</td> <td>301</td> </tr> <tr> <td>Horizontal Datum</td> <td>NAD 83 (1986)</td> </tr> <tr> <td>Northing (M)</td> <td>119,893.6641</td> </tr> <tr> <td>Easting (M)</td> <td>385,834.7010</td> </tr> <tr> <td>Elevation (M)*</td> <td>183.007</td> </tr> <tr> <td>Northing (SFT)</td> <td>393,351.1296</td> </tr> <tr> <td>Easting (SFT)</td> <td>1,265,859.3482</td> </tr> <tr> <td>Elevation (SFT)*</td> <td>600.416</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Convergence Angle</td> <td style="width: 50%;">0 5 26.7318665</td> </tr> <tr> <td>Scale Factor</td> <td>0.999940330</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td>0.9999712811</td> </tr> <tr> <td>Combined Adjust. Factor</td> <td>0.9999116128</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;">SUPERCEDED CONTROL</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas North	301	Horizontal Datum	NAD 83 (1986)	Northing (M)	119,893.6641	Easting (M)	385,834.7010	Elevation (M)*	183.007	Northing (SFT)	393,351.1296	Easting (SFT)	1,265,859.3482	Elevation (SFT)*	600.416	Convergence Angle	0 5 26.7318665	Scale Factor	0.999940330	Elevation Adjust. Factor	0.9999712811	Combined Adjust. Factor	0.9999116128	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Vertical Determined By:</td> <td style="width: 50%;">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td>NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td>35 24 50.1379740</td> </tr> <tr> <td>Longitude</td> <td>92 9 21.4922772</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>154.672</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.346</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center; margin: 0;">Location Description</p> <p style="margin: 0;">TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 356 IN QUITMAN GO NORTHERLY ON HWY-25 FOR 6.60 KM. (4.10 MI.) TO THE STATION ON THE LEFT. 10.94 METERS NORTHWEST OF THE CENTER OF HWY-25 AND 1.03 METERS SOUTHEAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120004A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p> </div>	Vertical Determined By:	LEVEL - Unkown Quality	Elevation Datum:	NAVD 88	Geoid Datum:		Latitude	35 24 50.1379740	Longitude	92 9 21.4922772	Ellipsoid Height (M):	154.672	Geoid Height (M):	-28.346
Zone	Zone Code																																																				
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Ellipsoid Height (M):	154.672																																																				
Geoid Height (M):	-28.346																																																				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL FENCE BRACE POST	324	1.36	4.5
MK # 2	TELEPHONE POLE	74	6.35	20.8
MK # 3	NONE			

AZ Mark Station	120004
Geodetic Azimuth	232 56 29.90779
Grid Azimuth	233 01 56.66044

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>MAY 1940</td> </tr> <tr> <td>Ref Mon # 2</td> <td>92230001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>120009</td> </tr> </table>	Ref Mon # 1	MAY 1940	Ref Mon # 2	92230001	Ref Mon # 3	120009	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;">Comments</p> <p style="margin: 0;">PREVIOUS ELEVATION (600.4516 SURV. FT.) BY 3-WIRE USING NGS Point F 207 *NOTE: F 207 LATER DESTROYED & NOT FOUND IN 2015. UPDATED ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM D 49 IN 2015 BY S5112 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM NGS 2ND ORDER BM's Q 68 & Y 68.</p> <p style="text-align: right; margin: 0;">*NOTE: S5112 FOUND</p> </div>
Ref Mon # 1	MAY 1940						
Ref Mon # 2	92230001						
Ref Mon # 3	120009						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120005	Date Monumented 11/29/1995	Monumented By AHTD	County CLEBURNE	Route 25	Job Number: 001657, 012227, 050413
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	121,865.8767	0.0020			
Easting (M)	390,026.9512	0.0020			
Elevation (M)*	232.804				

Northing (SFT)	399,821.6305				
Easting (SFT)	1,279,613.4224				
Elevation (SFT)*	763.792				

Convergence Angle	0	3	50.0857195		
Scale Factor	0.999939458				
Elevation Adjust. Factor	0.9999634668				
Combined Adjust. Factor	0.9999029270				

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)				
Latitude	35	25	54.3327204		
Longitude	92	6	35.4006432		
Ellipsoid Height:	204.483				
Grid Northing (Meters)	121,866.3050				
Grid Easting (Meters)	390,027.0570				

Location Description

 TO REACH THE STATION FROM THE JUNCTION OF HWY-25/16 AND 5 ABOUT 5 KM. SOUTH OF HEBER SPRINGS, GO SOUTHWESTERLY ON HWY-25 & 16 FOR 6.92 KM. (4.30 MI.) TO THE STATION ON THE LEFT. 9.50 METERS SOUTHEAST OF THE CENTER OF HWY-25 AND 0.59 METERS NORTH OF A WITNESS POST SET AT THE END OF A WOODEN FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120005 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER POST	163	0.65	2.1
MK # 2	GUY POLE	262	34.86	114.4
MK # 3	TELEPHONE JUNCTION BOX	347	18.90	62.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR, (SC) MAY 1940 Ref Mon # 2 ARBT, (SC) 92230001 Ref Mon # 3 P777, (SC) 120009	<div style="border: 1px solid black; padding: 5px;"> Comments NO RECORD OF HOW PREVIOUS ELEV. (763.8010 SURV. FT.) WAS DERIVED. UPDATED ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM D 49 BY S5112 IN 2015 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68. </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120005A	Date Monumented 11/29/1995	Monumented By AHTD	County CLEBURNE	Route 25	Job Number: 001657
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1986)
Northing (M)	121,951.7640
Easting (M)	390,431.2510
Elevation (M)*	236.555
Northing (SFT)	400,103.4124
Easting (SFT)	1,280,939.8627
Elevation (SFT)*	776.098

Convergence Angle	0	3	40.7603479
Scale Factor	0.999939422		
Elevation Adjust. Factor	0.9999628782		
Combined Adjust. Factor	0.9999023024		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MONUMENT	238	29.85	97.9
MK # 2	TELEPHONE JUNCTION BOX	56	19.85	65.1
MK # 3	GUY POLE	305	36.81	120.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MAY 1940	
Ref Mon # 2 92230001	
Ref Mon # 3 120009	

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 25 57.1201500

Longitude 92 6 19.3790664

Ellipsoid Height (M): 208.232

Geoid Height (M): -28.323

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-26/16 & 5 ABOUT 5 KM. SOUTH OF HEBER SPRINGS GO SOUTHWESTERLY ON HWY-25 & 16 FOR 6.52 KM. (4.05 MI.) TO THE STATION ON THE LEFT. 11.30 METERS SOUTHEAST OF THE CENTER OF HWY-25 & 16 AND 1.25 METERS NORTHWEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120005A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120006	Date Monumented 11/29/1995	Monumented By AHTD	County CLEBURNE	Route 25	Job Number: 001657
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	123,699.2280	
Easting (M)	392,239.7220	
Elevation (M)*	249.897	
Northing (SFT)	405,836.5505	
Easting (SFT)	1,286,873.1546	
Elevation (SFT)*	819.870	

Convergence Angle	0	2	59.0721873
Scale Factor	0.999938735		
Elevation Adjust. Factor	0.9999607846		
Combined Adjust. Factor	0.9998995220		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	MAY 1940
Ref Mon # 2	92230001
Ref Mon # 3	120009

Comments

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 26 53.8811880
Longitude	92 5 7.7375076
Ellipsoid Height (M):	221.582
Geoid Height (M):	-28.315

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-25/16 & 5 ABOUT 5 KM. SOUTH OF HEBER SPRINGS GO SOUTHWESTERLY ON HWY-25 & 16 FOR 3.70 KM. (2.30 MI.) TO A LARGE CLEARING ON THE RIGHT AND THE STATION ON THE RIGHT. 9.35 METERS NORTH-NORTHWEST OF THE CENTER OF HWY-25 & 16 AND 0.50 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120006 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120006A	Date Monumented 11/29/1995	Monumented By AHTD	County CLEBURNE	Route 25	Job Number: 001657
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	123,694.2040	
Easting (M)	392,730.3100	
Elevation (M)*	256.087	
Northing (SFT)	405,820.0676	
Easting (SFT)	1,288,482.6921	
Elevation (SFT)*	840.179	

Convergence Angle	0	2	47.7515423
Scale Factor	0.999938737		
Elevation Adjust. Factor	0.9999598132		
Combined Adjust. Factor	0.9998985527		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	MAY 1940
Ref Mon # 2	92230001
Ref Mon # 3	120009

Comments

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 26 53.7315468
Longitude	92 4 48.2828556
Ellipsoid Height (M):	227.774
Geoid Height (M):	-28.313

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-25/16 & 5 ABOUT 5 KM. SOUTH OF HEBER SPRINGS GO SOUTHWESTERLY ON HWY-25 & 16 FOR 3.22 KM. (2.0 MI.) TO A LARGE CLEARING ON THE RIGHT AND THE STATION ON THE RIGHT. 9.90 METERS NORTH OF THE CENTER OF HWY-25 & 16, 51.70 METERS EAST OF A FIELD ENTRANCE, 48.8 METERS WEST OF A FIELD ENTRANCE AND 0.80 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120006A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120007	Date Monumented 12/5/1995	Monumented By AHTD	County CLEBURNE	Route 5	Job Number: 001748,050067
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	115,147.5271	
Easting (M)	393,188.3520	
Elevation (M)*	230.702	
Northing (SFT)	377,779.8452	
Easting (SFT)	1,289,985.4515	
Elevation (SFT)*	756.895	

Convergence Angle	0	2	37.0318641
Scale Factor	0.999942809		
Elevation Adjust. Factor	0.9999637966		
Combined Adjust. Factor	0.9999066077		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	121	1.55	5.1
MK # 2	SOUTHWEST CORNER OF STORM CELLAR	60	21.25	69.7
MK # 3	16" (0.40 M) TREE	8	15.40	50.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 120009	
Ref Mon # 2 730001	
Ref Mon # 3 430001	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 22 16.4076708
Longitude	92 4 29.8609716
Ellipsoid Height (M):	202.388
Geoid Height (M):	-28.314

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-5 & 36 IN ROSE BUD GO NORTH ON HWY-5 FOR 4.67 KM. (2.90 MI.) TO THE STATION ON THE RIGHT. 11.60 METERS EAST OF THE CENTER OF HWY-5 AND 1.65 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120007 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120007A	Date Monumented 12/5/1995	Monumented By AHTD	County CLEBURNE	Route 5	Job Number: 001748
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	116,002.4980	
Easting (M)	393,313.6470	
Elevation (M)*	240.024	
Northing (SFT)	380,584.8622	
Easting (SFT)	1,290,396.5235	
Elevation (SFT)*	787.479	

Convergence Angle	0	2	34.1581166
Scale Factor	0.999942321		
Elevation Adjust. Factor	0.9999623338		
Combined Adjust. Factor	0.9999046570		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	120009
Ref Mon # 2	430001
Ref Mon # 3	730001

Comments

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 22 44.1542424
Longitude	92 4 24.9224052
Ellipsoid Height (M):	211.710
Geoid Height (M):	-28.314

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-5 & 36 IN ROSE BUD GO NORTH ON HWY-5 FOR 5.55 KM. (3.45 MI.) TO THE STATION ON THE RIGHT. 12.50 METERS EAST OF THE CENTER OF HWY-5 AND 0.63 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120007A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120008	Date Monumented 12/5/1995	Monumented By AHTD	County CLEBURNE	Route 5	Job Number: 001748,050067
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	118,718.7631	
Easting (M)	394,680.8110	
Elevation (M)*	267.680	
Northing (SFT)	389,496.4753	
Easting (SFT)	1,294,881.9608	
Elevation (SFT)*	878.213	

Convergence Angle	0	2	2.6745369
Scale Factor	0.999940889		
Elevation Adjust. Factor	0.9999579940		
Combined Adjust. Factor	0.9998988855		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	50	29.98	98.4
MK # 2	POWER POLE	136	2.64	8.7
MK # 3	GUY POLE	319	24.59	80.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 120009 Ref Mon # 2 430001 Ref Mon # 3 730001	

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 24 12.3257088
Longitude	92 3 30.8175300
Ellipsoid Height (M):	239.371
Geoid Height (M):	-28.309

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HWY-5, HWY-25 AND HWY-16 ABOUT 4.50 KM. SOUTH OF HEBER SPRINGS GO SOUTH ON HWY-5 FOR 7.24 KM. (4.50 MI.) TO THE STATION ON THE LEFT. 11.87 METERS SOUTHEAST OF THE CENTER OF HWY-5, 24.87 METERS SOUTHWEST OF THE CENTER OF A GRAVEL DRIVEWAY AND 2.40 METERS NORTHWEST OF A WITNESS POST SET NEXT TO A POWER POLE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120008 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120008A	Date Monumented 12/5/1995	Monumented By AHTD	County CLEBURNE	Route 5	Job Number: 001748,050067
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	118,309.0480	
Easting (M)	394,207.8160	
Elevation (M)*	268.201	
Northing (SFT)	388,152.2683	
Easting (SFT)	1,293,330.1430	
Elevation (SFT)*	879.923	

Convergence Angle	0	2	13.5769268
Scale Factor	0.999941093		
Elevation Adjust. Factor	0.9999579123		
Combined Adjust. Factor	0.9998990078		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	231	10.00	32.8
MK # 2	FENCE CORNER POST	323	1.20	3.9
MK # 3	GUY POLE	288	31.50	103.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 120009	
Ref Mon # 2 430001	
Ref Mon # 3 730001	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 23 59.0211024
Longitude	92 3 49.5534060
Ellipsoid Height (M):	239.890
Geoid Height (M):	-28.311

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-5, HWY-25 AND HWY-16 ABOUT 4.50 KM. SOUTH OF HEBER SPRINGS, GO SOUTH ON HWY-5 FOR 7.89 KM. (4.90 MI.) TO THE STATION ON THE RIGHT. 12.10 METERS NORTHWEST OF THE CENTER OF HWY-5 AND 1.05 METERS SOUTHEAST OF A WITNESS POST SET NEXT TO A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120008A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	120008
Geodetic Azimuth	49 03 47.8821
Grid Azimuth	49 06 01.4346

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120009A	Date Monumented 12/7/1995	Monumented By AHTD	County CLEBURNE	Route 25	Job Number: 01657, 050119 ,050118, 01222
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	124,950.1585 0.0030
Easting (M)	395,745.5379 0.0030
Elevation (M)*	276.841

Northing (SFT)	409,940.6450
Easting (SFT)	1,298,375.1523
Elevation (SFT)*	908.269

Convergence Angle	0 1 38.1875384
Scale Factor	0.999938289
Elevation Adjust. Factor	0.9999565565
Combined Adjust. Factor	0.9998948482

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)
Latitude	35 27 34.5631176
Longitude	92 2 48.7330296
Ellipsoid Height:	248.539
Grid Northing (Meters)	124,950.5770
Grid Easting (Meters)	395,745.6220

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	95	1.45	4.8
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR, (SC) MAY 1940	PREVIOUS Elevation (908.2692 SURV. FT.) based on 3-wire from NGS Point Y 68 <div style="text-align: right;">UPDATED</div> ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM Y 68 IN 2015 BY S5112 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM NGS 2ND ORDER BM's Q 68 & Y 68.
Ref Mon # 2 ARBT, (SC)92230001	
Ref Mon # 3 P777, (SC)120009	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120010	Date Monumented 3/4/2006	Monumented By AHTD	County CLEBURNE	Route 25B	Job Number: 050175
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	130,727.5180	
Easting (M)	397,341.6000	
Elevation (M)*	173.602	
Northing (SFT)	428,895.1986	
Easting (SFT)	1,303,611.5660	
Elevation (SFT)*	569.561	

Convergence Angle	0	1	1.3921563
Scale Factor	0.999936733		
Elevation Adjust. Factor	0.9999727569		
Combined Adjust. Factor	0.9999094916		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	349	16.37	53.7
MK # 2	MAN HOLE	336	11.13	36.5
MK # 3	8" PIPE FLUSH WITH ASPH.	247	6.22	20.4

Area Reference Monuments (used for Processing) Ref Mon # 1 HEBEPORT Ref Mon # 2 ARHR Ref Mon # 3 ARLR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire levels ran from NGS BM W7/V7 by S5103 in Jun 2006 in Job 050175.</td> </tr> </table>	Comments	3-Wire levels ran from NGS BM W7/V7 by S5103 in Jun 2006 in Job 050175.
Comments			
3-Wire levels ran from NGS BM W7/V7 by S5103 in Jun 2006 in Job 050175.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25B AND STATE HIGHWAY 110, IN HEBER SPRINGS, GO NORTH ON 25B FOR 1.30 MILES TO THE STATION ON THE LEFT, NORTH 32.0 FEET OF AN ASPH. DRIVE, 26.7 FEET WEST OF THE CENTERLINE OF THE HIGHWAY AND EAS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120010A	Date Monumented 3/4/2006	Monumented By AHTD	County CLEBURNE	Route 25B	Job Number: 050175
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	130,238.7871	
Easting (M)	397,327.2160	
Elevation (M)*	173.333	
Northing (SFT)	427,291.7540	
Easting (SFT)	1,303,564.3745	
Elevation (SFT)*	568.676	

Convergence Angle	0	1	1.7209577
Scale Factor	0.999936833		
Elevation Adjust. Factor	0.9999727992		
Combined Adjust. Factor	0.9999096339		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PAY PHONE	302	3.75	12.3
MK # 2	LIGHT POLE	183	22.86	75.0
MK # 3	LIGHT POLE	350	26.40	86.6

Area Reference Monuments (used for Processing) Ref Mon # 1 HEBEPORT Ref Mon # 2 ARHR Ref Mon # 3 ARLR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire levels ran from NGS BM W7/V7 by S5103 in Jun 2006 in Job 050175.</td> </tr> </table>	Comments	3-Wire levels ran from NGS BM W7/V7 by S5103 in Jun 2006 in Job 050175.
Comments			
3-Wire levels ran from NGS BM W7/V7 by S5103 in Jun 2006 in Job 050175.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25B AND STATE HIGHWAY 110, IN HEBER SPRINGS, GO NORTH ON 25B FOR 1.00 MILES TO THE STATION ON THE LEFT, 29.20 FEET WEST OF THE CENTERLINE OF THE HIGHWAY AND EAST 1.5 FEET OF A WITNESS POST. THE S	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120011	Date Monumented 3/4/2006	Monumented By AHTD	County CLEBURNE	Route 110	Job Number: 050175
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	128,932.5440	
Easting (M)	399,607.6380	
Elevation (M)*	86.301	
Northing (SFT)	423,006.1881	
Easting (SFT)	1,311,046.0590	
Elevation (SFT)*	283.141	

Convergence Angle	0	0	9.0592498
Scale Factor	0.999937129		
Elevation Adjust. Factor	0.9999864567		
Combined Adjust. Factor	0.9999235865		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE 110 STATE HIGHWAY 25, SOUTHEAST OF HEBER SPRINGS, GO WEST ON HIGHWAY 110 0.40 MILES TO THE STATION MARK ON THE LEFT, EAST OF A GRAVEK DRIVE 39.7 FEET, WEST 55.5 FEET OF A GRAVEL DRIVE, SOUTH 29.4 FEET O				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	16" ELM	197	11.58	38.0	120011A
MK # 2	GAS METER	347	21.21	69.6	266 21 07
MK # 3					266 21 16

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HEBEPOR	3-Wire levels ran from NGS BM W7/V7 by S5103 in Jun 2006 in Job 050175.
Ref Mon # 2 ARHR	
Ref Mon # 3 ARLR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120011A	Date Monumented 3/4/2006	Monumented By AHTD	County CLEBURNE	Route 110	Job Number: 050175
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	128,898.3500	
Easting (M)	399,070.9590	
Elevation (M)*	88.033	
Northing (SFT)	422,894.0033	
Easting (SFT)	1,309,285.3047	
Elevation (SFT)*	288.822	

Convergence Angle	0	0	21.4505555
Scale Factor	0.999937137		
Elevation Adjust. Factor	0.9999861849		
Combined Adjust. Factor	0.9999233228		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	80	28.65	94.0
MK # 2	16" PINE	58	27.07	88.8
MK # 3	SOUTHEAST CORNER ASPH. LOT	281	14.97	49.1

Area Reference Monuments (used for Processing) Ref Mon # 1 HEBEPORT Ref Mon # 2 ARHR Ref Mon # 3 ARLR	Comments 3-Wire levels ran from NGS BM W7/V7 by S5103 in Jun 2006 in Job 050175.
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Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE 110 STATE HIGHWAY 25, SOUTHEAST OF HEBER SPRINGS, GO WEST ON HIGHWAY 110 0.70 MILES TO THE STATION MARK ON THE RIGHT, NORTH 31.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 1.5 FEET OF A WITNESS POST	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120012	Date Monumented 4/28/2010	Monumented By AHTD	County CLEBURNE	Route 225	Job Number: 050228
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 140,598.9057		Latitude 35 36 2.1201599
Easting (M) 388,307.1784		Longitude 92 7 44.5625501
Elevation (M)* 187.632		Ellipsoid Height (M): 160.155
		Geoid Height (M): -27.477

Northing (SFT) 461,281.5765		
Easting (SFT) 1,273,971.1345		
Elevation (SFT)* 615.589		

Convergence Angle 0 4 30.3285428		
Scale Factor 0.999935976		
Elevation Adjust. Factor 0.9999705553		
Combined Adjust. Factor 0.9999065332		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 225 AND STATE HIGHWAY 92, EAST OF GREERS FERRY, GO NORTH ON 225 FOR 1.0 MILE TO THE MARK ON THE RIGHT, 75.1 FEET SOUTH OF THE CENTERLINE OF HAZELWOOD DRIVE, AND EAST 18.4 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120012 2010" ON TOP OF A 3.8 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER VALVE	30	16.46	54.0
MK # 2	COMBINATION POLE	7	29.41	96.5
MK # 3	12" RED OAK	111	17.13	56.2

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARLR</p> <p>Ref Mon # 2 ARBT</p> <p>Ref Mon # 3 ARHR</p>	<p style="text-align: center;">Comments</p> <p>ELEVATIONS WERE DERIVED BY GPS USING D 52 AND N 48.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120012A	Date Monumented 4/28/2010	Monumented By AHTD	County CLEBURNE	Route 225	Job Number: 050228
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	140,018.7930	
Easting (M)	388,389.7260	
Elevation (M)*	193.415	
Northing (SFT)	459,378.3234	
Easting (SFT)	1,274,241.9594	
Elevation (SFT)*	634.562	

Convergence Angle	0	4	28.4026612
Scale Factor	0.999935954		
Elevation Adjust. Factor	0.9999696478		
Combined Adjust. Factor	0.9999056037		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	7	15.42	50.6
MK # 2	FIRE HYDRANT	113	11.46	37.6
MK # 3	EAST END 30" RCP	178	24.38	80.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHR Ref Mon # 3 ARBT	ELEVATIONS WERE DERIVED BY GPS USING D 52 AND N 48. <div style="border: 1px solid black; height: 100px; width: 100%;"></div>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120013	Date Monumented 4/28/2010	Monumented By AHTD	County CLEBURNE	Route 225	Job Number: 050228
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 142,761.9450		Latitude 35 37 12.3068208
Easting (M) 388,286.6840		Longitude 92 7 45.4896624
Elevation (M)* 247.335		Ellipsoid Height (M): 219.874
		Geoid Height (M): -27.461

Northing (SFT) 468,378.1479		
Easting (SFT) 1,273,903.8958		
Elevation (SFT)* 811.465		

Convergence Angle 0 4 30.8680287		
Scale Factor 0.999936130		
Elevation Adjust. Factor 0.9999611866		
Combined Adjust. Factor 0.9998973191		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 225 AND STATE HIGHWAY 92, EAST OF GREERS FERRY, GO NORTH ON 225 FOR 2.55 MILES TO THE MARK ON THE LEFT, WEST 20.2 FEET OF THE CENTERLINE OF THE HIGHWAY AND EAST 20.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120013 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WEST END 24" RCP	195	5.55	18.2	120013A
MK # 2	COMBINATION POLE WITH GUY	349	16.00	52.5	192 48 04
MK # 3					192 52 35

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARLR</p> <p>Ref Mon # 2 ARHR</p> <p>Ref Mon # 3 ARBT</p>	<p style="text-align: center;">Comments</p> <p>ELEVATIONS WERE DERIVED BY GPS USING D 52 AND N 48.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120013A	Date Monumented 4/28/2010	Monumented By AHTD	County CLEBURNE	Route 225	Job Number: 050228
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 142,325.2010		Latitude 35 36 58.1308488
Easting (M) 388,186.8450		Longitude 92 7 49.4342940
Elevation (M)* 209.957		Ellipsoid Height (M): 182.490
Northing (SFT) 466,945.2636		Geoid Height (M): -27.468
Easting (SFT) 1,273,576.3406		
Elevation (SFT)* 688.834		

Convergence Angle 0 4 33.1634064	Location Description
Scale Factor 0.999936090	<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 225 AND STATE HIGHWAY 92, EAST OF GREERS FERRY, GO NORTH ON 225 FOR 2.25 MILES TO THE MARK ON THE LEFT, WEST 19.3 FEET OF THE CENTERLINE OF THE HIGHWAY AND EAST 29.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120013A 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>
Elevation Adjust. Factor 0.9999670520	
Combined Adjust. Factor 0.9999031441	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWE POLE	248	75.59	248.0	120013
MK # 2					12 48 02
MK # 3					12 52 35

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHR Ref Mon # 3 ARBT	ELEVATIONS WERE DERIVED BY GPS USING D 52 AND N 48.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120014	Date Monumented 11/8/2011	Monumented By AHTD	County CLEBURNE	Route 25	Job Number: 050261
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	138,885.2698	
Easting (M)	406,390.9314	
Elevation (M)*	299.665	
Northing (SFT)	455,659.4227	
Easting (SFT)	1,333,300.9141	
Elevation (SFT)*	983.152	

Convergence Angle	0	2	27.7248307
Scale Factor	0.999935935		
Elevation Adjust. Factor	0.9999529749		
Combined Adjust. Factor	0.9998889130		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WATER VALVE	330	8.41	27.6	120014A
MK # 2	NORTHEAST CORNER OF METAL BUILDING	267	19.32	63.4	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120014A	Date Monumented 11/8/2011	Monumented By AHTD	County CLEBURNE	Route 25	Job Number: 050261
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	138,368.3590	
Easting (M)	406,258.4015	
Elevation (M)*	292.594	
Northing (SFT)	453,963.5245	
Easting (SFT)	1,332,866.1056	
Elevation (SFT)*	959.953	

Convergence Angle	0	2	24.6530562
Scale Factor	0.999935937		
Elevation Adjust. Factor	0.9999540845		
Combined Adjust. Factor	0.9998900245		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF METAL SIGN	29	16.61	54.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120015	Date Monumented 11/8/2011	Monumented By AHTD	County CLEBURNE	Route 25	Job Number: 050261
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	141,585.5525	
Easting (M)	405,331.5104	
Elevation (M)*	287.801	
Northing (SFT)	464,518.6002	
Easting (SFT)	1,329,825.1304	
Elevation (SFT)*	944.227	

Convergence Angle	0	2	3.2738823
Scale Factor	0.999936032		
Elevation Adjust. Factor	0.9999548367		
Combined Adjust. Factor	0.9998908716		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF HEADWALL	134	11.33	37.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.</td> </tr> </table>	Comments	ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.
Comments			
ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 25 SPUR, NORTHEAST OF HEBER SPRINGS, GO NORTH ON HIGHWAY 25 6.15 MILES TO THE MARK ON THE LEFT, WEST OF THE CENTERLINE OF THE HIGHWAY 21.3 FEET AND EAST 28.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120015 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120015A	Date Monumented 11/8/2011	Monumented By AHTD	County CLEBURNE	Route 25	Job Number: 050261
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - 3 Wire Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum: Geoid 96		
Northing (M) 142,033.1266		Latitude 35 36 48.8582856
Easting (M) 405,189.8312		Longitude 91 56 33.7717644
Elevation (M)* 294.081		Ellipsoid Height (M): 266.798
		Geoid Height (M): -27.284

Northing (SFT) 465,987.0162		
Easting (SFT) 1,329,360.3045		
Elevation (SFT)* 964.832		

Convergence Angle 0 2 0.0040305		
Scale Factor 0.999936066		
Elevation Adjust. Factor 0.9999538512		
Combined Adjust. Factor 0.9998899201		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 25 SPUR, NORTHEAST OF HEBER SPRINGS, GO NORTH ON HIGHWAY 25 6.45 MILES TO THE MARK ON THE LEFT, WEST OF THE CENTERLINE OF THE HIGHWAY 38.5 FEET AND EAST 3.3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120015A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks			
	Description	Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

AZ Mark Station 120015	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120016	Date Monumented 11/8/2011	Monumented By AHTD	County CLEBURNE	Route CR 90	Job Number: 050261
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	146,608.9913	
Easting (M)	407,055.3010	
Elevation (M)*	324.465	
Northing (SFT)	480,999.6656	
Easting (SFT)	1,335,480.6000	
Elevation (SFT)*	1,064.516	

Convergence Angle	0	2	43.2228444
Scale Factor	0.999936691		
Elevation Adjust. Factor	0.9999490834		
Combined Adjust. Factor	0.9998857777		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.

Vertical Determined By:	3rd Order - 3 Wire Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	35 39 17.2964592
Longitude	91 55 19.4997612
Ellipsoid Height (M):	297.168
Geoid Height (M):	-27.297

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 5 NORTH, NORTHEAST OF DRASCO, FROM THE JUNCTION, GO NORTH ON COUNTY ROAD 90 (WOLF BAYO) 0.15 MILES TO THE MARK ON THE LEFT, NORTH OF THE CENTERLINE OF THE COUNTY ROAD 90, 19.0 FEET AND SOUTH 7.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120016 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120016A	Date Monumented 11/8/2011	Monumented By AHTD	County CLEBURNE	Route CR 90	Job Number: 050261
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - 3 Wire Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 146,601.9705		Geoid Datum: Geoid 96
Easting (M) 407,735.9351		Latitude 35 39 17.0503272
Elevation (M)* 321.362		Longitude 91 54 52.4397924
Northing (SFT) 480,976.6315		Ellipsoid Height (M): 294.066
Easting (SFT) 1,337,713.6471		Geoid Height (M): -27.295
Elevation (SFT)* 1,054.334		

Convergence Angle 0 2 58.9690166	
Scale Factor 0.999936689	
Elevation Adjust. Factor 0.9999495704	
Combined Adjust. Factor 0.9998862626	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH 3 GUYS	275	13.83	45.4
MK # 2	POWER POLE WITN GUY	358	28.00	91.9
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.
Ref Mon # 2	
Ref Mon # 3	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120017	Date Monumented 11/8/2011	Monumented By AHTD	County CLEBURNE	Route 25	Job Number: 050261
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	148,644.4064	
Easting (M)	408,679.8568	
Elevation (M)*	330.545	
Northing (SFT)	487,677.5233	
Easting (SFT)	1,340,810.4969	
Elevation (SFT)*	1,084.464	

Convergence Angle	0	3	20.8524199
Scale Factor	0.999937134		
Elevation Adjust. Factor	0.9999481293		
Combined Adjust. Factor	0.9998852666		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 5 NORTH AND STATE HIGHWAY 25, NORTHEAST OF DRASCO GO NORTH ON HIGHWAY 25 1.85 MILES TO THE MARK ON THE LEFT, NORTH 20.7 FEET OF THE CENTERLINE OF HIGHWAY 25 AND SOUTH 16.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120017 2011" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;"> ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT. </td> </tr> </table>	Comments	ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.
Comments			
ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120017A	Date Monumented 11/8/2011	Monumented By AHTD	County CLEBURNE	Route 25	Job Number: 050261
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	148,556.4564	
Easting (M)	409,181.3824	
Elevation (M)*	327.217	
Northing (SFT)	487,388.9740	
Easting (SFT)	1,342,455.9188	
Elevation (SFT)*	1,073.544	

Convergence Angle	0	3	32.4556479
Scale Factor	0.999937113		
Elevation Adjust. Factor	0.9999486516		
Combined Adjust. Factor	0.9998857679		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TELEPHONE POLE	106	28.80	94.5	120017
MK # 2	FIRE HYDRANT	70	21.37	70.1	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.
Ref Mon # 2	
Ref Mon # 3	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120018	Date Monumented 2/7/2012	Monumented By AHTD	County Cleburne	Route 16	Job Number: 050262,050315
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	122,389.5696	
Easting (M)	405,786.8665	
Elevation (M)*	268.700	
Northing (SFT)	401,539.7796	
Easting (SFT)	1,331,319.0778	
Elevation (SFT)*	881.561	

Convergence Angle	0	2	13.5152108
Scale Factor	0.999939242		
Elevation Adjust. Factor	0.9999578339		
Combined Adjust. Factor	0.9998970785		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	north of center line of highway 16	180	7.01	23.0
MK # 2	west of gravel driveway	95	11.00	36.1
MK # 3	south east of power pole with guide wire	305	14.33	47.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.</td> </tr> </table>	Comments	3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.
Comments			
3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120018A	Date Monumented 2/7/2012	Monumented By AHTD	County Cleburne	Route 16	Job Number: 050262,050315
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	122,125.3743	
Easting (M)	405,579.4067	
Elevation (M)*	267.405	
Northing (SFT)	400,672.9988	
Easting (SFT)	1,330,638.4368	
Elevation (SFT)*	877.312	

Convergence Angle	0	2	8.7248719
Scale Factor	0.999939350		
Elevation Adjust. Factor	0.9999580372		
Combined Adjust. Factor	0.9998973897		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	west of the center line of good springs road	85	5.80	19.0
MK # 2	south west of power pole	70	12.19	40.0
MK # 3	east of witness post		0.30	1.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.</td> </tr> </table>	Comments	3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.
Comments			
3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120019	Date Monumented 2/7/2012	Monumented By AHTD	County Cleburne	Route 16	Job Number: 050262.050279
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	121,858.2132
Easting (M)	410,485.3994
Elevation (M)*	167.188
Northing (SFT)	399,796.4878
Easting (SFT)	1,346,734.1812
Elevation (SFT)*	548.515

Convergence Angle	0	4	1.9058156
Scale Factor	0.999939462		
Elevation Adjust. Factor	0.9999737635		
Combined Adjust. Factor	0.9999132271		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By: 3rd Order - 3 Wire Levels	
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 09
Latitude	35 25 54.0511176
Longitude	91 53 4.2822168
Ellipsoid Height (M):	139.827
Geoid Height (M):	-27.416

Location Description
Starting at the junction of highway 110 and 16 in pangurn. Go west for 3.5 miles to the station on the left. The station is a standard alum. cap and 4 foot rebar. LAT.35.2554 LON.91.5304

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	South of center line of highway 16	0	8.42	27.6
MK # 2	East of 18" cmp	280	9.72	31.9
MK # 3	North west of the north west corner of brick church	135	24.08	79.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120019A	Date Monumented 2/7/2012	Monumented By AHTD	County Cleburne	Route 16	Job Number: 050262
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	121,864.2099	
Easting (M)	410,903.1506	
Elevation (M)*	175.649	
Northing (SFT)	399,816.1620	
Easting (SFT)	1,348,104.7533	
Elevation (SFT)*	576.276	

Convergence Angle	0	4	11.5437996
Scale Factor	0.999939459		
Elevation Adjust. Factor	0.9999724357		
Combined Adjust. Factor	0.9999118963		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	west of haddix lane		95		10.06	33.0
MK # 2	south west of power pole with guide wire		40		11.58	38.0
MK # 3	north of the center line highway 16		180		8.23	27.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.</td> </tr> </table>	Comments	3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.
Comments			
3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120020	Date Monumented 9/8/2014	Monumented By AHTD	County CLEBURNE	Route 16	Job Number: 050315
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	123,462.3660	0.0030			
Easting (M)	402,367.1977	0.0032			
Elevation (M)*	264.583				
Northing (SFT)	405,059.4458				
Easting (SFT)	1,320,099.7145				
Elevation (SFT)*	868.051				

Convergence Angle	0	0	54.6228020
Scale Factor	0.999938823		
Elevation Adjust. Factor	0.9999584801		
Combined Adjust. Factor	0.9998973056		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TELEPHONE BOX	267	40.80	133.9	120021
MK # 2	TELEPHONE BOX	86	18.70	61.4	
MK # 3	WOODEN FENCE POST	177	1.30	4.3	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	3 Wire Levels were ran by crew S5114 in Sep. 15 from 2nd order NGS mark N 207.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120021	Date Monumented 9/8/2014	Monumented By AHTD	County CLEBURNE	Route 16	Job Number: 050315
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	123,468.1845	0.0028			
Easting (M)	402,756.0249	0.0031			
Elevation (M)*	266.445				
Northing (SFT)	405,078.5353				
Easting (SFT)	1,321,375.3917				
Elevation (SFT)*	874.160				

Convergence Angle	0	1	3.5949841
Scale Factor	0.999938821		
Elevation Adjust. Factor	0.9999581879		
Combined Adjust. Factor	0.9998970115		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	179	13.80	45.3
MK # 2	METAL FENCE CORNER POST	281	15.90	52.2
MK # 3	POWER POLE	3	2.00	6.6

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3 Wire Levels were ran by crew S5114 in Sep. 14 from 2nd order NGS mark N207. ELEV WAS UPDATED 01/25/2015 DURING JOB 050315 FROM 874.22 TO 874.16. NEW ELEV IS BASED ON NGS BM N 207.</td> </tr> </table>	Comments	3 Wire Levels were ran by crew S5114 in Sep. 14 from 2nd order NGS mark N207. ELEV WAS UPDATED 01/25/2015 DURING JOB 050315 FROM 874.22 TO 874.16. NEW ELEV IS BASED ON NGS BM N 207.
Comments			
3 Wire Levels were ran by crew S5114 in Sep. 14 from 2nd order NGS mark N207. ELEV WAS UPDATED 01/25/2015 DURING JOB 050315 FROM 874.22 TO 874.16. NEW ELEV IS BASED ON NGS BM N 207.			

Location Description	
TO REACH FROM THE JUNCTION OF HIGHWAY 25 AND HIGHWAY 16 IN HEBER SPRINGS. GO EAST ON HIGHWAY 16 FOR 4.1 MILES TO THE STATION ON THE LEFT. THE STATION IS 5 FT. SOUTH OF A WITNESS POST, AND 22.6 FT. NORTH OF THE CENTERLINE OF HIGHWAY 16. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "120021 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120022	Date Monumented 5/13/2015	Monumented By AHTD	County CLEBURNE	Route 25	Job Number: 012227, 050413
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	--------------------------------------

Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	121,951.3910	0.0030			
Easting (M)	390,441.6447	0.0030			
Elevation (M)*	236.503				

Northing (SFT)	400,102.1886				
Easting (SFT)	1,280,973.9627				
Elevation (SFT)*	775.927				

Convergence Angle	0	3	40.5205457
Scale Factor	0.999939423		
Elevation Adjust. Factor	0.9999628863		
Combined Adjust. Factor	0.9999023116		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description	Azimuth	Distance		
		Meters	Feet	
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments
ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM D 49 BY S5112 IN 2015 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	35 25 57.1084068
Longitude	92 6 18.9669636
Ellipsoid Height (M):	208.929 0.0060
Geoid Height (M):	-27.559 0.0060

Location Description
<p>TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 16W, NORTHEAST OF QUITMAN, GO NORTH ON HIGHWAY 25 0.4 MILES TO THE MARK ON THE RIGHT, SOUTHEAST 18 FEET OF THE EDGE OF THE PAVEMENT AND NORTHWEST 9 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2015 120022" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120023	Date Monumented 5/13/2015	Monumented By AHTD	County CLEBURNE	Route 25	Job Number: 012227, 050413
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	--------------------------------------

Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	123,693.7914 0.0020
Easting (M)	392,225.0668 0.0020
Elevation (M)*	249.579

Northing (SFT)	405,818.7140	
Easting (SFT)	1,286,825.0733	
Elevation (SFT)*	818.828	

Convergence Angle	0	2	59.4102542
Scale Factor	0.999938737		
Elevation Adjust. Factor	0.9999608344		
Combined Adjust. Factor	0.9998995738		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

 TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 107N, NORTHEAST OF QUITMAN, GO NORTH ON HIGHWAY 25 0.65 MILES TO THE MARK ON THE LEFT, NORTH 13 FEET OF THE EDGE OF THE PAVEMENT. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2015 120023" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description	Azimuth	Distance	
		Meters Feet	
MK # 1			AZ Mark Station 120023A
MK # 2			Geodetic Azimuth
MK # 3			Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARBT Ref Mon # 3 P777	Comments ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM Y 68 BY S5112 IN 2015 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120023A	Date Monumented 5/13/2015	Monumented By AHTD	County CLEBURNE	Route 25	Job Number: 012227, 050413
---------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	--------------------------------------

Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	123,695.0108 0.0030
Easting (M)	392,732.2432 0.0030
Elevation (M)*	255.643
Northing (SFT)	405,822.7146
Easting (SFT)	1,288,489.0346
Elevation (SFT)*	838.723

Convergence Angle	0 2 47.7069474
Scale Factor	0.999938737
Elevation Adjust. Factor	0.9999598828
Combined Adjust. Factor	0.9998986223

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM Y 68 BY S5112 IN 2015 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.
Ref Mon # 2 ARBT	
Ref Mon # 3 P777	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120024	Date Monumented 1/22/2019	Monumented By ARDOT	County CLEBURNE	Route 16	Job Number: Hwy. 16 Slide
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	130,700.9433	0.0030			
Easting (M)	379,842.7182	0.0020			
Elevation (M)*					
Northing (SFT)	428,808.0115				
Easting (SFT)	1,246,200.6513				
Elevation (SFT)*					

Convergence Angle	0	7	45.5030335
Scale Factor	0.999936743		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PPOLE + GY	195	10.97	36.0
MK # 2	TB	171	25.00	82.0
MK # 3	S END OF CU	78	3.52	11.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	STATIC GPS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARBT, ARHR, ARLR & ARR V AND ON NGS 2ND ORDER BM TT 21 RDM IN FINAL NETWORK ADJUSTMENT
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 120024A	Date Monumented 1/22/2019	Monumented By ARDOT	County CLEBURNE	Route 16	Job Number: Hwy. 16 Slide
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	130,268.0287	0.0030			
Easting (M)	380,013.3588	0.0020			
Elevation (M)*					
Northing (SFT)	427,387.6908				
Easting (SFT)	1,246,760.4947				
Elevation (SFT)*					

Convergence Angle	0	7	41.5399792
Scale Factor	0.999936832		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PPOLE	191	5.50	18.0
MK # 2	WATER VALVE	286	20.12	66.0
MK # 3	SE COR OF MTL BU	282	15.54	51.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	STATIC GPS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARBT, ARHR, ARLR & ARR V AND ON NGS 2ND ORDER BM TT 21 RDM IN FINAL NETWORK ADJUSTMENT
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130001	Date Monumented 1/12/1994	Monumented By AHTD	County CLEVELAND	Route 15	Job Number: R70095
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	522,301.6582	
Easting (M)	400,645.6730	
Elevation (M)*		
Northing (SFT)	1,713,584.6903	
Easting (SFT)	1,314,451.6788	
Elevation (SFT)*		

Convergence Angle	0	0	14.0451006
Scale Factor	0.999929109		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	22	4.15	13.6
MK # 2	NBC IN COMBINATION POLE	235	26.23	86.1
MK # 3	GAS METER	285	26.92	88.3

Area Reference Monuments (used for Processing)	
Ref Mon # 1	WARRPORT
Ref Mon # 2	CELLPORT
Ref Mon # 3	93400004

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130001A	Date Monumented 1/12/1994	Monumented By AHTD	County CLEVELAND	Route 15	Job Number: R70095
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	522,699.6671	
Easting (M)	400,644.9800	
Elevation (M)*		
Northing (SFT)	1,714,890.4911	
Easting (SFT)	1,314,449.4052	
Elevation (SFT)*		

Convergence Angle	0	0	14.0306156
Scale Factor	0.999928823		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	WARRPORT
Ref Mon # 2	CELLPORT
Ref Mon # 3	93400004

Comments

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 46 22.5993468
Longitude	91 59 34.9314828
Ellipsoid Height (M):	44.031
Geoid Height (M):	-26.539

Location Description
<p>FROM THE JCT. OF HWY. 15 AND HWY. 35 AND HWY. 11 IN THE TOWN OF PANSY NORTH OF WARREN, GO SOUTH ON HWY. 15 FOR 5.65 KM (3.50 MILES) TO THE STATION ON THE LEFT JUST SOUTH OF A CEMETERY. THE STATION IS 10.50 METERS EAST OF THE CENTERLINE OF HWY. 15, 28.00 METERS SOUTH SOUTHWEST OF AN ARKLA GAS REGULATOR STATION AND 1.60 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "13001A 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130002	Date Monumented 1/12/1994	Monumented By AHTD	County CLEVELAND	Route 15	Job Number: R70095
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	528,201.3271	
Easting (M)	399,739.5750	
Elevation (M)*		

Northing (SFT)	1,732,940.5207	
Easting (SFT)	1,311,478.9223	
Elevation (SFT)*		

Convergence Angle	0	0	5.6684620
Scale Factor	0.999925269		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

FROM THE JCT. OF HWY. 15 AND HWY. 35 AND HWY. 11 IN THE TOWN OF PANSY NORTH OF WARREN, GO NORTH ON HWY. 15 FOR 0.839 KM (0.52 MILES) TO THE STATION ON THE LEFT. THE STATION IS 29.00 METERS NORTH OF THE CENTERLINE OF HWY. 11, 14.10 METERS EAST OF THE CENTERLINE OF HWY. 15 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130002 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	334	29.85	97.9
MK # 2	TOP OF FIRE HYDRANT	237	16.20	53.1
MK # 3	NONE			

AZ Mark Station	13002A
Geodetic Azimuth	335 41 20.07162
Grid Azimuth	335 41 25.75989

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 WARRPORT</p> <p>Ref Mon # 2 CELLPORT</p> <p>Ref Mon # 3 93400004</p>	<div style="border: 1px solid black; height: 100px; margin: 5px 0;"></div> <p style="text-align: center; margin: 0;">Comments</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130002A	Date Monumented 1/12/1994	Monumented By AHTD	County CLEVELAND	Route 15	Job Number: R70095
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	528,944.2152	
Easting (M)	399,404.0000	
Elevation (M)*		
Northing (SFT)	1,735,377.8127	
Easting (SFT)	1,310,377.9567	
Elevation (SFT)*		

Convergence Angle	0	0	12.9736706
Scale Factor	0.999924846		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 18" PINE TREE	335	27.65	90.7
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	WARRPORT
Ref Mon # 2	CELLPORT
Ref Mon # 3	93400004

Comments

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 33 49 45.2884440

Longitude 92 0 23.1800724

Ellipsoid Height (M): 45.224

Geoid Height (M): -26.542

Location Description

FROM THE JCT. OF HWY. 15 AND HWY. 35 AND HWY. 11 IN THE TOWN OF PANSY NORTH OF WARREN, GO NORTH ON HWY. 15 FOR 0.839 KM (0.52 MILES) TO THE STATION ON THE LEFT. THE STATION IS 11.80 METERS WEST OF THE CENTERLINE OF HWY. 15, 14.20 METERS SOUTH OF A DRIVEWAY AND 0.75 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "13002A 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130003	Date Monumented 1/12/1994	Monumented By AHTD	County CLEVELAND	Route 15	Job Number: R70095
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	531,901.6871	
Easting (M)	398,408.6340	
Elevation (M)*		
Northing (SFT)	1,745,080.7851	
Easting (SFT)	1,307,112.3267	
Elevation (SFT)*		

Convergence Angle	0	0	34.6515138
Scale Factor	0.999923297		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
FROM THE JCT. OF HWY. 15 AND HWY. 35 AND HWY. 11 IN THE TOWN OF PANSY NORTH OF WARREN, GO NORTH ON HWY. 15 FOR 4.19 KM (2.60 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.25 METERS EAST OF THE CENTERLINE OF HWY. 15, 26.384 METERS NORTH OF A DRIVEWAY, 25.187 METERS NORTHWEST OF THE NORTHWEST CORNER OF A BRICK HOUSE AND 1.0 METERS WEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130003 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>WARRPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>CELLPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>93400004</td> </tr> </table>	Ref Mon # 1	WARRPORT	Ref Mon # 2	CELLPORT	Ref Mon # 3	93400004	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	WARRPORT							
Ref Mon # 2	CELLPORT							
Ref Mon # 3	93400004							
Comments								

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130003A	Date Monumented 1/12/1994	Monumented By AHTD	County CLEVELAND	Route 15	Job Number: R70095
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	532,514.5141	
Easting (M)	398,518.1880	
Elevation (M)*		
Northing (SFT)	1,747,091.3683	
Easting (SFT)	1,307,471.7551	
Elevation (SFT)*		

Convergence Angle	0	0	32.2680966
Scale Factor	0.999923002		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NBC IN 20" GUM TREE	4	28.18	92.5	130003
MK # 2	NBC IN POWER POLE	259	33.35	109.4	190 07 35.77226
MK # 3	NONE				190 08 08.04576

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 WARRPORT	
Ref Mon # 2 CELLPORT	
Ref Mon # 3 93400004	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130004	Date Monumented 1/12/1994	Monumented By AHTD	County CLEVELAND	Route 15	Job Number: R70095
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1986)
Northing (M)	536,647.6070
Easting (M)	397,807.3880
Elevation (M)*	

Northing (SFT)	1,760,651.3573
Easting (SFT)	1,305,139.7388
Elevation (SFT)*	

Convergence Angle	0	0	47.7673972
Scale Factor	0.999921260		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 53 55.3201692
Longitude	92 1 25.3460640
Ellipsoid Height (M):	48.806
Geoid Height (M):	-26.546

Location Description

FROM THE JCT. OF HWY. 15 AND HWY. 114 IN THE TOWN OF CALMER NORTH OF WARREN, GO SOUTH ON HWY. 15 FOR 4.54 KM (2.82 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 12.30 METERS WEST OF THE CENTERLINE OF HWY. 15 AND 0.70 METERS EAST OF A WITNESS POST AND FENCE CORNER. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130004 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description	Azimuth	Distance		AZ Mark Station	Geodetic Azimuth
		Meters	Feet		
MK # 1 NBC IN 8" CHERRY TREE	45	25.35	83.2	13004A	353 38 20.83360
MK # 2 TELEPHONE JUNCTION BOX	101	30.04	98.5		
MK # 3 NONE					353 39 08.60315

<p style="text-align: center; margin-bottom: 10px;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 WARRPORT</p> <p>Ref Mon # 2 CELLPORT</p> <p>Ref Mon # 3 93400004</p>	<div style="border: 1px solid black; height: 100px; margin-top: 10px;"> <p style="text-align: center; margin-top: 0;">Comments</p> </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130004A	Date Monumented 1/12/1994	Monumented By AHTD	County CLEVELAND	Route 15	Job Number: R70095
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	537,158.9151	
Easting (M)	397,750.5090	
Elevation (M)*		
Northing (SFT)	1,762,328.8740	
Easting (SFT)	1,304,953.1283	
Elevation (SFT)*		

Convergence Angle	0	0	49.0091878
Scale Factor	0.999921074		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN 20" SYCAMORE TREE		178		33.24	109.0
MK # 2	NONE					
MK # 3	NONE					

Area Reference Monuments (used for Processing)	
Ref Mon # 1	WARRPORT
Ref Mon # 2	CELLPORT
Ref Mon # 3	93400004

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 54 11.9158776
Longitude	92 1 27.5647728
Ellipsoid Height (M):	51.564
Geoid Height (M):	-26.546

Location Description
<p>FROM THE JCT. OF HWY. 15 AND HWY. 114 IN THE TOWN OF CALMER NORTH OF WARREN, GO SOUTH ON HWY. 15 FOR 4.02 KM (2.50 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.31 METERS WEST OF THE CENTERLINE OF HWY. 15 AND 1.00 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "13004A 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	130004
Geodetic Azimuth	173 38 19.59609
Grid Azimuth	173 39 08.60315

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130006	Date Monumented 3/23/1995	Monumented By AHTD	County CLEVELAND	Route 15	Job Number: RX0025
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	545,343.3510	
Easting (M)	396,000.2150	
Elevation (M)*	84.439	
Northing (SFT)	1,789,180.6441	
Easting (SFT)	1,299,210.7054	
Elevation (SFT)*	277.030	

Convergence Angle	0	1	27.2178689
Scale Factor	0.999918967		
Elevation Adjust. Factor	0.9999867489		
Combined Adjust. Factor	0.9999057170		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	14" METAL PIPE	0		20.40	66.9
MK # 2	EAST CORNER OF BRICK AND WOOD SIGN	34		9.75	32.0
MK # 3	14" METAL PIPE	195		25.00	82.0

Area Reference Monuments (used for Processing) Ref Mon # 1 TARRY Ref Mon # 2 130004 AHTD Ref Mon # 3 93400004 AHTD	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	33 58 37.5478716
Longitude	92 2 35.8322676
Ellipsoid Height (M):	57.869
Geoid Height (M):	-26.555

Location Description
FROM THE JCT. OF HWY. 65 AND HWY. 15 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 31.73 KM (19.72 MILES) TO THE STATION ON THE LEFT IN FRONT OF THE "FRIENDSHIP MISSIONARY BAPTIST CHURCH" AND 1.19 KM (0.74 MILES) NORTH OF THE WOODLAWN PUBLIC SCHOOLS. THE STATION IS 24.0 METERS SOUTH OF THE NORTHERN MOST DRIVEWAY TO THE CHURCH, 30 METERS NORTH OF THE SOUTHERN MOST DRIVEWAY TO THE CHURCH, 11.5 METERS EAST OF THE CENTER OF HWY. 15, 4.20 METERS WEST OF THE EDGE OF THE PAVED PARKING AREA AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130006" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

AZ Mark Station	130006A
Geodetic Azimuth	14 12 48.738617
Grid Azimuth	14 14 15.953566

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130006A	Date Monumented 3/23/1995	Monumented By AHTD	County CLEVELAND	Route 15	Job Number: RX0025
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	546,085.4171	
Easting (M)	396,188.5070	
Elevation (M)*	83.610	
Northing (SFT)	1,791,615.2393	
Easting (SFT)	1,299,828.4600	
Elevation (SFT)*	274.310	

Convergence Angle	0	1	23.1185622
Scale Factor	0.999918858		
Elevation Adjust. Factor	0.9999868790		
Combined Adjust. Factor	0.9999057381		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	TARRY
Ref Mon # 2	130004 AHTD
Ref Mon # 3	93400004 AHTD

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	33 59 1.6362708
Longitude	92 2 28.5080316
Ellipsoid Height (M):	57.054
Geoid Height (M):	-26.556

Location Description

FROM THE JCT. OF HWY. 15 AND HWY. 65 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 30.96 KM (19.24 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 1.96 KM (1.22 MILES) NORTH OF THE WOODLAWN PUBLIC SCHOOLS. THE STATION IS 10.70 METERS WEST OF THE CENTER OF HWY. 15, 11.60 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY, 9.20 METERS NORTH OF A STEEL MAIL BOX POST, 4.50 METERS NORTHEAST OF A DUG WELL WITH A SMALL SHED OVER IT AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130006A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130007	Date Monumented 3/23/1995	Monumented By AHTD	County CLEVELAND	Route 15	Job Number: RX0025
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	547,648.4600				
Easting (M)	396,235.0560				
Elevation (M)*	81.613				
Northing (SFT)	1,796,743.3225				
Easting (SFT)	1,299,981.1796				
Elevation (SFT)*	267.759				

Convergence Angle	0	1	22.1170226
Scale Factor	0.999918672		
Elevation Adjust. Factor	0.9999871924		
Combined Adjust. Factor	0.9999058655		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UNDERGROUND CABLE MARKER	180	8.10	26.6
MK # 2	FENCE CORNER	280	0.65	2.1
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>TARRY</td> </tr> <tr> <td>Ref Mon # 2</td> <td>130004 AHTD</td> </tr> <tr> <td>Ref Mon # 3</td> <td>93400004 AHTD</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	TARRY	Ref Mon # 2	130004 AHTD	Ref Mon # 3	93400004 AHTD	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	TARRY										
Ref Mon # 2	130004 AHTD										
Ref Mon # 3	93400004 AHTD										
Comments											

Location Description	
<p>FROM THE JCT. OF HWY . 15 AND HWY. 65 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 30.55 KM (18.98 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 2.37 KM (1.48 MILES) NORTH OF THE WOODLAWN PUBLIC SCHOOLS. THE STATION IS 14.0 METERS WEST OF THE CENTER OF HWY. 15 AND 0.60 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130007" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130007A	Date Monumented 3/23/1995	Monumented By AHTD	County CLEVELAND	Route 15	Job Number: RX0025
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	547,065.8020	
Easting (M)	396,268.8180	
Elevation (M)*	82.958	
Northing (SFT)	1,794,831.7187	
Easting (SFT)	1,300,091.9471	
Elevation (SFT)*	272.171	

Convergence Angle	0	1	21.3756270
Scale Factor	0.999918734		
Elevation Adjust. Factor	0.9999869814		
Combined Adjust. Factor	0.9999057164		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	TARRY
Ref Mon # 2	130004 AHTD
Ref Mon # 3	93400004 AHTD

Comments

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NGVD 29

Geoid Datum:

Latitude 33 59 33.4584708

Longitude 92 2 25.3939272

Ellipsoid Height (M): 56.400

Geoid Height (M): -26.558

Location Description

FROM THE JCT. OF HWY. 15 AND HWY. 65 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 29.96 KM (18.62 MILES) TO THE STATION ON THE LEFT. THE STATION IS 2.96 KM (1.84 MILES) NORTH OF THE WOODLAWN PUBLIC SCHOOL. THE STATION IS 12.20 METERS EAST OF THE CENTER OF HWY. 15 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130007A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130008	Date Monumented 3/23/1995	Monumented By AHTD	County CLEVELAND	Route 15	Job Number: RX0025
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	550,505.1750	
Easting (M)	396,177.9320	
Elevation (M)*	88.377	
Northing (SFT)	1,806,115.7283	
Easting (SFT)	1,299,793.7652	
Elevation (SFT)*	289.950	

Convergence Angle	0	1	23.3881399
Scale Factor	0.999918487		
Elevation Adjust. Factor	0.9999861310		
Combined Adjust. Factor	0.9999046191		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	6" FENCE CORNER POST	215	5.80	19.0
MK # 2	18" CONCRETE CULVERT	165	4.90	16.1
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>TARRY</td> </tr> <tr> <td>Ref Mon # 2</td> <td>93400004 AHTD</td> </tr> <tr> <td>Ref Mon # 3</td> <td>GLEN LAKE</td> </tr> </table>	Ref Mon # 1	TARRY	Ref Mon # 2	93400004 AHTD	Ref Mon # 3	GLEN LAKE	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	TARRY						
Ref Mon # 2	93400004 AHTD						
Ref Mon # 3	GLEN LAKE						

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	34 1 25.0915080
Longitude	92 2 28.9896864
Ellipsoid Height (M):	61.825
Geoid Height (M):	-26.563

Location Description
FROM THE JCT. OF HWY. 15 AND HWY. 65 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 22.14 KM (13.76 MILES) TO THE JEFFERSON AND CLEVELAND COUNTY LINE, CONTINUE AHEAD ON HWY. 15 FOR 4.52 KM (2.81 MILES) TO THE STATION ON THE RIGHT IN THE SMALL VILLAGE OF RANDALL. THE STATION IS 11.0 METERS WEST OF THE CENTER OF HWY. 15, 8.20 METERS NORTH OF THE NORTHERN MOST ENTRANCE TO A METAL BARN AND HORSE CORRAL, 19.20 METERS NORTH OF A WATER VALVE AND 2.46 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130008" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

AZ Mark Station	130008A
Geodetic Azimuth	1 42 21.058072
Grid Azimuth	1 43 44.44618

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130008A	Date Monumented 3/23/1995	Monumented By AHTD	County CLEVELAND	Route 15	Job Number: RX0025
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	550,874.3961	
Easting (M)	396,189.0780	
Elevation (M)*	85.852	
Northing (SFT)	1,807,327.0812	
Easting (SFT)	1,299,830.3334	
Elevation (SFT)*	281.666	

Convergence Angle	0	1	23.1482092
Scale Factor	0.999918478		
Elevation Adjust. Factor	0.9999865272		
Combined Adjust. Factor	0.9999050063		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	310	10.20	33.5
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	TARRY
Ref Mon # 2	93400004 AHTD
Ref Mon # 3	GLEN LAKE

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	34 1 37.0756956
Longitude	92 2 28.5610020
Ellipsoid Height (M):	59.288
Geoid Height (M):	-26.564

Location Description
<p>FROM THE JCT. OF HWY. 15 AND HWY. 65 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 22.14 KM (13.76 MILES) TO THE JEFFERSON AND CLEVELAND COUNTY LINE, CONTINUE SOUTH ON HWY. 15 FOR 4.15 KM (2.58 MILES) TO THE SMALL VILLAGE OF RANDALL AND THE STATION ON THE RIGHT. THE STATION IS 11.20 METERS WEST OF THE CENTER OF HWY. 15, 2.70 METERS SOUTH OF A GUY WIRE AND 2.32 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130008A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

AZ Mark Station	130008
Geodetic Azimuth	181 42 21.29793
Grid Azimuth	181 43 44.44618

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130009	Date Monumented 3/23/1995	Monumented By AHTD	County CLEVELAND	Route 15	Job Number: RX0025,RX0030
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	553,091.3171
Easting (M)	396,141.1370
Elevation (M)*	80.154
Northing (SFT)	1,814,600.4295
Easting (SFT)	1,299,673.0470
Elevation (SFT)*	262.972

Convergence Angle	0	1	24.2139532
Scale Factor	0.999918493		
Elevation Adjust. Factor	0.9999874214		
Combined Adjust. Factor	0.9999059154		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	2	49.0401600
Longitude	92	2	30.4562832
Ellipsoid Height:	53.587		
Grid Northing (Meters)	553,091.6010		
Grid Easting (Meters)	396,141.3650		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	88	31.50	103.3
MK # 2	POWER POLE	290	0.90	3.0
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 TARRY Ref Mon # 2 93400004 AHTD Ref Mon # 3 GLEN LAKE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>CONTACT CHARLES WOOLEY, RT 1 BOX 45, SAREPTA, LA 71071, 318-847-84338, ABOUT GPS INFORMATION ON TWO POINTS LOCATED IN HIS DEVELOPING SUBDIVISION ON HWY. 15 IN CLEVELAND COUNTY.</td> </tr> </table>	Comments	CONTACT CHARLES WOOLEY, RT 1 BOX 45, SAREPTA, LA 71071, 318-847-84338, ABOUT GPS INFORMATION ON TWO POINTS LOCATED IN HIS DEVELOPING SUBDIVISION ON HWY. 15 IN CLEVELAND COUNTY.
Comments			
CONTACT CHARLES WOOLEY, RT 1 BOX 45, SAREPTA, LA 71071, 318-847-84338, ABOUT GPS INFORMATION ON TWO POINTS LOCATED IN HIS DEVELOPING SUBDIVISION ON HWY. 15 IN CLEVELAND COUNTY.			

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	GEOID99
Latitude	34 2 49.0309440
Longitude	92 2 30.4651680
Ellipsoid Height (M):	54.220
Geoid Height (M):	-25.796

Location Description
FROM THE JCT. OF HWY. 15 AND HWY. 65 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 22.14 KM (13.76 MILES) TO THE JEFFERSON AND CLEVELAND COUNTY LINE, CONTINUE AHEAD ON HWY. 15 FOR 1.89 KM (1.18 MILES) TO A SIDE ROAD RIGHT LEADING INTO A SUBDIVISION, TURN RIGHT ONTO A GRAVEL ROAD AND GO 47.3 METERS (155.18 FEET) TO THE STATION ON THE RIGHT. THE STATION IS 48.0 METERS EAST OF THE NORTH END OF A CONCRETE CROSS DRAIN, 7.0 METERS NORTH OF THE CENTER OF THE GRAVEL ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130009" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130009A	Date Monumented 3/23/1995	Monumented By AHTD	County CLEVELAND	Route 15	Job Number: RX0025
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	553,086.2110	
Easting (M)	395,906.7550	
Elevation (M)*	83.167	
Northing (SFT)	1,814,583.6773	
Easting (SFT)	1,298,904.0787	
Elevation (SFT)*	272.857	

Convergence Angle	0	1	29.3289440
Scale Factor	0.999918493		
Elevation Adjust. Factor	0.9999869486		
Combined Adjust. Factor	0.9999054426		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	335	1.65	5.4
MK # 2	12" TREE	240	19.50	64.0
MK # 3	10" PINE TREE	305	25.00	82.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TARRY Ref Mon # 2 93400004 AHTD Ref Mon # 3 GLEN LAKE	CONTACT CHARLES WOOLEY, RT 1 BOX 45, SAREPTA, LA 71071, 318-847-84338, ABOUT GPS INFORMATION ON TWO POINTS LOCATED IN HIS DEVELOPING SUBDIVISION ON HWY. 15 IN CLEVELAND COUNTY.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130016	Date Monumented 1/7/1997	Monumented By AHTD	County CLEVELAND	Route 167	Job Number: 001914,RX0028
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	543,237.7890				
Easting (M)	361,792.7480				
Elevation (M)*	81.121				
Northing (SFT)	1,782,272.6461				
Easting (SFT)	1,186,981.7074				
Elevation (SFT)*	266.143				

Convergence Angle	0	13	52.9436669
Scale Factor	0.999919368		
Elevation Adjust. Factor	0.9999872697		
Combined Adjust. Factor	0.9999066387		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	33	57	26.7401628
Longitude	92	24	48.2120604
Ellipsoid Height:	54.381		
Grid Northing (Meters)	543,238.1261		
Grid Easting (Meters)	361,792.9895		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Concrete right of way marker	177	4.55	14.9
MK # 2	Corner post of chain link fence	354	10.25	33.6
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM, IULM,S 197,K 124 Ref Mon # 2 700014,270005 070003,0700 Ref Mon # 3 T 83 N 81 070005 LROC UAM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.</td> </tr> </table>	Comments	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
Comments			
3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 15.13 KM (9.40 MI) TO THE STATION AND GARNER CEMETERY ON THE LEFT. THE STATION IS 18.30 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167, 15.00 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD AND 0.65 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "130016 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130016A	Date Monumented 1/7/1997	Monumented By AHTD	County CLEVELAND	Route 167	Job Number: 001914,RX0028
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	543,670.8121		
Easting (M)	361,776.1360		
Elevation (M)*	73.157		
Northing (SFT)	1,783,693.3227		
Easting (SFT)	1,186,927.2062		
Elevation (SFT)*	240.015		

Convergence Angle	0	13	53.3439543
Scale Factor	0.999919279		
Elevation Adjust. Factor	0.9999885194		
Combined Adjust. Factor	0.9999077994		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	33	57	40.7927736
Longitude	92	24	48.9271716
Ellipsoid Height:	46.446		
Grid Northing (Meters)	543,671.1448		
Grid Easting (Meters)	361,776.3797		

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 15.53 KM (9.65 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.00 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167, 9.50 METERS NORTH OF THE CENTER OF A LOG ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "130016A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	None			
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM, IULM,S 197,K 124</p> <p>Ref Mon # 2 700014,270005 070003,0700</p> <p>Ref Mon # 3 T 83 N 81 070005 LROC UAM</p>	<p style="text-align: center;">Comments</p> <p>3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130017	Date Monumented 1/7/1997	Monumented By AHTD	County CLEVELAND	Route 167	Job Number: RX0028
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	551,135.1090	
Easting (M)	362,082.1480	
Elevation (M)*	68.907	
Northing (SFT)	1,808,182.4368	
Easting (SFT)	1,187,931.1806	
Elevation (SFT)*	226.072	

Convergence Angle	0	13	47.3251761
Scale Factor	0.999918475		
Elevation Adjust. Factor	0.9999891864		
Combined Adjust. Factor	0.9999076622		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	358	33.06	108.5	
MK # 2	ALLTELL UNDER GROUND CABLE MARKE	173	19.49	63.9	
MK # 3	NONE				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MALEPORT Ref Mon # 2 WARRPORT Ref Mon # 3 TULIP	

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 34 1 43.0945392

Longitude 92 24 38.1828528

Ellipsoid Height (M): 42.192

Geoid Height (M): -26.715

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 23.09 KM (13.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.920 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167, 6.743 METERS NORTH OF A LOG ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "130017 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130017A	Date Monumented 1/7/1997	Monumented By AHTD	County CLEVELAND	Route 167	Job Number: RX0028
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	550,509.1280	
Easting (M)	362,029.5280	
Elevation (M)*	62.754	
Northing (SFT)	1,806,128.6974	
Easting (SFT)	1,187,758.5431	
Elevation (SFT)*	205.885	

Convergence Angle	0	13	48.4184173
Scale Factor	0.999918489		
Elevation Adjust. Factor	0.9999901519		
Combined Adjust. Factor	0.9999086418		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	58	38.48	126.3	
MK # 2	NONE				
MK # 3	NONE				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>MALEPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>WARRPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>TULIP</td> </tr> </table>	Ref Mon # 1	MALEPORT	Ref Mon # 2	WARRPORT	Ref Mon # 3	TULIP	<table style="width: 100%;"> <tr> <th colspan="2" style="text-align: center;">Comments</th> </tr> <tr> <td colspan="2" style="height: 100px;"></td> </tr> </table>	Comments			
Ref Mon # 1	MALEPORT										
Ref Mon # 2	WARRPORT										
Ref Mon # 3	TULIP										
Comments											

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 34 1 22.7699868

Longitude 92 24 40.1361480

Ellipsoid Height (M): 36.039

Geoid Height (M): -26.715

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 22.53 KM (14.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.30 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167, 5.50 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "130017A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130018	Date Monumented 3/28/2001	Monumented By AHTD	County CLEVELAND	Route 63	Job Number: 070204
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	540,888.1437	
Easting (M)	397,178.4626	
Elevation (M)*	77.440	
Northing (SFT)	1,774,563.8515	
Easting (SFT)	1,303,076.3394	
Elevation (SFT)*	254.067	

Convergence Angle	0	1	1.4964649
Scale Factor	0.999919910		
Elevation Adjust. Factor	0.9999878473		
Combined Adjust. Factor	0.9999077583		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF CMP	177	14.45	47.4
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD MON 1	Elevation based on BM917 from Job 070132 from Job 070088
Ref Mon # 2 S 197	
Ref Mon # 3 K 124	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 56 12.9546852
Longitude	92 1 49.8758052
Ellipsoid Height (M):	51.573
Geoid Height (M):	-25.748

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 114 WEST, LOCATED IN CALMER, GO SOUTH ON U.S. HIGHWAY 63 FOR 0.08 KM (0.05 MI) TO THE STATION ON THE LEFT, SET SOUTH OF THE MT. OLIVE UNTIED METHODIST CHURCH. THE STATION IS 17.60 METERS NORTH OF A PAVED DRIVEWAY, 13.75 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.93 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "130018 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 774.771 METERS.</p>

AZ Mark Station	130018A
Geodetic Azimuth	167 59 32.88241
Grid Azimuth	168 00 34.37435

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130018A	Date Monumented 3/28/2001	Monumented By AHTD	County CLEVELAND	Route 63	Job Number: 070204
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	540,130.3384				
Easting (M)	397,339.4071				
Elevation (M)*	73.274				
Northing (SFT)	1,772,077.6186				
Easting (SFT)	1,303,604.3715				
Elevation (SFT)*	240.401				

Convergence Angle	0	0	57.9839758
Scale Factor	0.999920118		
Elevation Adjust. Factor	0.9999885010		
Combined Adjust. Factor	0.9999086199		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD MON 1	Elevation based on BM917 from Job 070132 from Job 070088
Ref Mon # 2 S 197	
Ref Mon # 3 K 124	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130019	Date Monumented 1/22/2003	Monumented By AHTD	County CLEVELAND	Route 79	Job Number: 001942
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	546,334.3841	
Easting (M)	381,661.5430	
Elevation (M)*		
Northing (SFT)	1,792,432.0585	
Easting (SFT)	1,252,167.9123	
Elevation (SFT)*		

Convergence Angle	0	6	39.9232001
Scale Factor	0.999918827		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LOG MILE 2.00 SIGN POST	268	5.55	18.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 480016	
Ref Mon # 2 AHTD HOPE 1	
Ref Mon # 3 AHTD MON 1	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 59 9.1650912
Longitude	92 11 54.5432460
Ellipsoid Height (M):	47.233
Geoid Height (M):	-25.757

Location Description
<p>TO REACH THE STATION FROM THE CLEVELAND / JEFFERSON COUNTY LINE LOCATED SOUTH OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 79 FOR 5.35 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.80 METERS EAST OF THE CENTER OF U.S. HIGHWAY 79 AND 2.90 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "130019 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	130019A
Geodetic Azimuth	180 07 36
Grid Azimuth	180 14 16

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130019A	Date Monumented 1/22/2003	Monumented By AHTD	County CLEVELAND	Route 79	Job Number: 001942
---------------------------	-------------------------------------	------------------------------	----------------------------	--------------------	------------------------------

Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	545,799.5230	
Easting (M)	381,659.3230	
Elevation (M)*		
Northing (SFT)	1,790,677.2684	
Easting (SFT)	1,252,160.6289	
Elevation (SFT)*		

Convergence Angle	0	6	39.9489967
Scale Factor	0.999918901		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION FROM THE CLEVELAND / JEFFERSON COUNTY LINE LOCATED SOUTH OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 79 FOR 5.66 MILES TO THE STATION ON THE LEFT. THE STATION IS 11.50 METERS EAST OF THE CENTER OF U.S. HIGHWAY 79 AND 2.70 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "130019A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				AZ Mark Station	130019
MK # 2					Geodetic Azimuth	0 07 36
MK # 3					Grid Azimuth	0 14 16

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 480016	
Ref Mon # 2 AHTD HOPE 1	
Ref Mon # 3 AHTD MON 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130020	Date Monumented 1/22/2003	Monumented By AHTD	County CLEVELAND	Route 79	Job Number: 001942
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	551,300.7450	
Easting (M)	381,656.6940	
Elevation (M)*		
Northing (SFT)	1,808,725.8609	
Easting (SFT)	1,252,152.0036	
Elevation (SFT)*		

Convergence Angle	0	6	40.2391041
Scale Factor	0.999918472		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE CLEVELAND / JEFFERSON COUNTY LINE LOCATED SOUTH OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 79 FOR 2.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.00 METERS WEST OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "130020 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				AZ Mark Station	130020A
MK # 2					Geodetic Azimuth	180 10 02
MK # 3					Grid Azimuth	180 16 42

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 480016	
Ref Mon # 2 AHTD HOPE 1	
Ref Mon # 3 AHTD MON 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130020A	Date Monumented 1/22/2003	Monumented By AHTD	County CLEVELAND	Route 79	Job Number: 001942
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	550,311.3430	
Easting (M)	381,651.8860	
Elevation (M)*		
Northing (SFT)	1,805,479.7978	
Easting (SFT)	1,252,136.2293	
Elevation (SFT)*		

Convergence Angle	0	6	40.3021136
Scale Factor	0.999918494		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION FROM THE CLEVELAND / JEFFERSON COUNTY LINE LOCATED SOUTH OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 79 FOR 2.87 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.50 METERS WEST OF THE CENTER OF U.S. HIGHWAY 79 AND 3.00 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "130020A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				AZ Mark Station	130020
MK # 2					Geodetic Azimuth	0 10 02
MK # 3					Grid Azimuth	0 16 42

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 480016	
Ref Mon # 2 AHTD HOPE 1	
Ref Mon # 3 AHTD MON 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130021	Date Monumented 9/22/2006	Monumented By AHTD	County CLEVELAND	Route 167	Job Number: 001914
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	548,970.5710	
Easting (M)	362,005.4980	
Elevation (M)*	70.626	
Northing (SFT)	1,801,080.9484	
Easting (SFT)	1,187,679.7047	
Elevation (SFT)*	231.713	

Convergence Angle	0	13	48.8078062
Scale Factor	0.999918566		
Elevation Adjust. Factor	0.9999889166		
Combined Adjust. Factor	0.9999074835		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Under ground cable marker	034	8.20	26.9	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130021A	Date Monumented 9/22/2005	Monumented By AHTD	County CLEVELAND	Route 167	Job Number: 001914
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	549,544.3520				
Easting (M)	362,032.3000				
Elevation (M)*	69.922				
Northing (SFT)	1,802,963.4282				
Easting (SFT)	1,187,767.6376				
Elevation (SFT)*	229.402				

Convergence Angle	0	13	48.2734180
Scale Factor	0.999918531		
Elevation Adjust. Factor	0.9999890271		
Combined Adjust. Factor	0.9999075590		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	195	11.80	38.7
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130022	Date Monumented 9/22/2005	Monumented By AHTD	County CLEVELAND	Route 167	Job Number: 001914
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	552,886.8290	
Easting (M)	362,138.1390	
Elevation (M)*	75.142	
Northing (SFT)	1,813,929.5381	
Easting (SFT)	1,188,114.8777	
Elevation (SFT)*	246.530	

Convergence Angle	0	13	46.2566315
Scale Factor	0.999918485		
Elevation Adjust. Factor	0.9999882078		
Combined Adjust. Factor	0.9999066938		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	135	7.40	24.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM, IULM,S 197,K 124 Ref Mon # 2 700014,270005 070003,0700 Ref Mon # 3 T 83 N 81 070005 LROC UAM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.</td> </tr> </table>	Comments	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
Comments			
3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.			

Location Description
To reach the station from the Dallas and Cleveland county line on Hwy-167 north of Fordyce go north on Hwy-167 for 7.79 miles to the station on the right. 63 feet east of the center of Hwy-167 and 1.65 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "130022 2005" set on top of a 4 foot by 5/8 inch rebar and is just below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130023	Date Monumented 12/2/2014	Monumented By AHTD	County CLEVELAND	Route 63	Job Number: RX0030
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	548,023.6067	
Easting (M)	396,255.5346	
Elevation (M)*		
Northing (SFT)	1,797,974.1163	
Easting (SFT)	1,300,048.3664	
Elevation (SFT)*		

Convergence Angle	0	1	21.6736045
Scale Factor	0.999918636		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL FENCE POST	265	0.80	2.6
MK # 2	POWER POLE	180	13.70	44.9
MK # 3	TELEPHONE BOX	175	21.50	70.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARCM Ref Mon # 3 MSB6	34.0005 92.0226 <div style="height: 100px; border: 1px solid black;"></div>

Vertical Determined By:

Elevation Datum:

Geoid Datum: GEOID99

Latitude 34 0 4.5465120

Longitude 92 2 25.9263240

Ellipsoid Height (M): 59.585

Geoid Height (M): -25.793

Location Description

TO REACH FROM THE JCT. OF HWY. 63 AND HWY. 54 EAST NEAR PINE BLUFF. GO SOUTH ON HWY. 63 FOR 7.45 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS 60 FT. EAST OF THE CENTERLINE OF HWY. 63, AND 2 FT. WEST OF A WITNESS POST. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "130023 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130023A	Date Monumented 12/2/2014	Monumented By AHTD	County CLEVELAND	Route 63	Job Number: RX0030
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	547,461.0095		
Easting (M)	396,267.5385		
Elevation (M)*			
Northing (SFT)	1,796,128.3287		
Easting (SFT)	1,300,087.7492		
Elevation (SFT)*			

Convergence Angle	0	1	21.4069343
Scale Factor	0.999918691		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	190	11.30	37.1
MK # 2	WOODEN FENCE POST	270	0.80	2.6
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	33.5946 92.0226
Ref Mon # 2 ARCM	
Ref Mon # 3 MSB6	

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	GEOID99
Latitude	33 59 46.2860160
Longitude	92 2 25.4498640
Ellipsoid Height (M):	56.454
Geoid Height (M):	-25.794

Location Description
<p>TO REACH FROM THE JCT. OF HWY. 63 AND HWY. 54 EAST NEAR PINE BLUFF. GO SOUTH ON HWY. 63 FOR 7.8 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS 54 FT. EAST OF THE CENTERLINE OF HWY. 63, 2 FT. WEST OF A WITNESS POST, AND 17 FT. SOUTH OF A PAVED FIELD ENTRANCE. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "130023A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

AZ Mark Station	130023
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130024-1	Date Monumented 12/3/2018	Monumented By AHTD	County CALHOUN	Route 8	Job Number: 070512
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	524,912.7279 0.0020
Easting (M)	369,182.2726 0.0020
Elevation (M)*	

Northing (SFT)	1,722,151.1748	
Easting (SFT)	1,211,225.5060	
Elevation (SFT)*		

Convergence Angle	0	11	10.5496262
Scale Factor	0.999927337		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (2011)		
Latitude	33	47	32.8069824
Longitude	92	19	58.0717956
Ellipsoid Height:	28.800		
Grid Northing (Meters)	524,912.7279		
Grid Easting (Meters)	369,182.2726		

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF SR-8 AND SR-205 E OF FORDYCE, GO E ON SR-8 2.4 MILES TO STATION ON RIGHT. 21' S OF THE C/L SR-8. THE MARK IS A STANDARD 2½" CAP STAMPED "130024 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SE COR O BRF	287	5.79	19.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM Ref Mon # 2 ARMO Ref Mon # 3 ARPB	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;"> ELEV. WAS GPS DERIVED AND BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARCM, ARMO & ARPB AND ON 2ND ORDER NGS BM's J 91 & T 83. OBSERVATIONS TO ALL WERE PERFORMED SIMULTANEOUS. *****NOTE*****THIS GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT </td> </tr> </table>	Comments	ELEV. WAS GPS DERIVED AND BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARCM, ARMO & ARPB AND ON 2ND ORDER NGS BM's J 91 & T 83. OBSERVATIONS TO ALL WERE PERFORMED SIMULTANEOUS. *****NOTE*****THIS GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT
Comments			
ELEV. WAS GPS DERIVED AND BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARCM, ARMO & ARPB AND ON 2ND ORDER NGS BM's J 91 & T 83. OBSERVATIONS TO ALL WERE PERFORMED SIMULTANEOUS. *****NOTE*****THIS GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130024A-1	Date Monumented 12/3/2018	Monumented By AHTD	County CALHOUN	Route 8	Job Number: 070512
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	524,977.2903 0.0020
Easting (M)	369,678.3942 0.0020
Elevation (M)*	

Northing (SFT)	1,722,362.9933	
Easting (SFT)	1,212,853.1983	
Elevation (SFT)*		

Convergence Angle	0	10	59.7592986
Scale Factor	0.999927293		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (2011)		
Latitude	33	47	34.9545048
Longitude	92	19	38.7927048
Ellipsoid Height:	27.800		
Grid Northing (Meters)	524,977.2903		
Grid Easting (Meters)	369,678.3942		

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF SR-8 AND SR-205 E OF FORDYCE, GO E ON SR-8 2.7 MILES TO STATION ON RIGHT. 18.4' S OF THE C/L SR-8. 28' N OF A WITNESS POST. THE MARK IS A STANDARD 2½" CAP STAMPED "130024A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CP	311	24.05	78.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM Ref Mon # 2 ARMO Ref Mon # 3 ARPB	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> SUPERCEDED ELEV. (GEOID HT. -26.0201m) WAS GPS DERIVED AND BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARCM, ARMO & ARPB AND ON 2ND ORDER NGS BM's J 91 & T 83. OBSERVATIONS TO ALL WERE PERFORMED SIMULTANEOUS. *****NOTE*****THIS GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT </td> </tr> </table>	Comments	SUPERCEDED ELEV. (GEOID HT. -26.0201m) WAS GPS DERIVED AND BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARCM, ARMO & ARPB AND ON 2ND ORDER NGS BM's J 91 & T 83. OBSERVATIONS TO ALL WERE PERFORMED SIMULTANEOUS. *****NOTE*****THIS GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT
Comments			
SUPERCEDED ELEV. (GEOID HT. -26.0201m) WAS GPS DERIVED AND BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARCM, ARMO & ARPB AND ON 2ND ORDER NGS BM's J 91 & T 83. OBSERVATIONS TO ALL WERE PERFORMED SIMULTANEOUS. *****NOTE*****THIS GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130025-1	Date Monumented 12/7/2020	Monumented By ARDOT	County CALHOUN	Route 274	Job Number: 07X138
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	506,667.9603	0.0020			
Easting (M)	335,541.7109	0.0020			
Elevation (M)*					
Northing (SFT)	1,662,293.1331				
Easting (SFT)	1,100,856.4298				
Elevation (SFT)*					

Convergence Angle	0	23	19.8093911
Scale Factor	0.999943664		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 205N AND STATE HIGHWAY 274, EAST OF EAST CAMDEN, GO EAST ON HIGHWAY 274 0.25 MILES TO THE MARK ON THE RIGHT, WEST 31.8' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 130025" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	248	8.60	28.2	AZ Mark Station 130025A
MK # 2	RR SWITCH	30	28.41	93.2	Geodetic Azimuth
MK # 3					Grid Azimuth

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM</p> <p>Ref Mon # 2 ARMO</p> <p>Ref Mon # 3 ARGS</p>	<p style="text-align: center;">Comments</p> <p>*****NOTE*****THIS GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT UPDATED FROM 130024 TO 130025-1</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130025A-1	Date Monumented 12/7/2020	Monumented By ARDOT	County CALHOUN	Route 274	Job Number: 07X138
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	506,202.9944 0.0020
Easting (M)	335,654.6946 0.0020
Elevation (M)*	
Northing (SFT)	1,660,767.6575
Easting (SFT)	1,101,227.1105
Elevation (SFT)*	

Convergence Angle	0 23 17.2874544
Scale Factor	0.999944183
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 205N AND STATE HIGHWAY 274, EAST OF EAST CAMDEN, GO EAST ON HIGHWAY 274 0.55 MILES TO THE MARK ON THE RIGHT, WEST 47.1' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 130025A" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	135	4.18	13.7
MK # 2	SOUTHEAST CORNER I-S-B BLDING	282	20.85	68.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARMO Ref Mon # 3 ARGS	*****NOTE*****THIS GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT UPDATED FROM 130024 TO 130025A-1

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130026-1	Date Monumented 12/7/2020	Monumented By ARDOT	County CALHOUN	Route 274	Job Number: 07X134
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	505,386.5769 0.0020
Easting (M)	343,803.8167 0.0020
Elevation (M)*	

Northing (SFT)	1,658,089.1277	
Easting (SFT)	1,127,963.0220	
Elevation (SFT)*		

Convergence Angle	0	20	20.2251248
Scale Factor	0.999945050		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

 TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 203S AND STATE HIGHWAY 274, NORTHWEST OF HAMPTON, GO WEST ON HIGHWAY 274 3.05 MILES TO THE MARK ON THE RIGHT, NORTH 24.8' OF THE C/L OF THE HIGHWAY AND 32.2' WEST OF A PRIVATE ROAD. THE MARK IS A STANMDARD 2 1/2" CAP STAMPED "2020 130026" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TRANSMISSION POLE	282	24.90	81.7
MK # 2				
MK # 3				

AZ Mark Station	130026A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARMO Ref Mon # 3 ARGS	*****NOTE*****THIS GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT UPDATED FROM 130024 TO 130026-1

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130026A-1	Date Monumented 12/7/2020	Monumented By ARDOT	County CALHOUN	Route 274	Job Number: 07X134
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	505,366.0038	0.0020			
Easting (M)	344,300.1093	0.0020			
Elevation (M)*					
Northing (SFT)	1,658,021.6308				
Easting (SFT)	1,129,591.2753				
Elevation (SFT)*					

Convergence Angle	0	20	9.4464211		
Scale Factor	0.999945070				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	TRANSMISSION POLE	282		39.84	130.7
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	<p>*****NOTE*****THIS GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT UPDATED FROM 130024 TO 130026A-1</p>
Ref Mon # 2 ARMO	
Ref Mon # 3 ARGS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140001	Date Monumented 4/20/1994	Monumented By AHTD	County COLUMBIA	Route 82	Job Number: RX0018,07ST01
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	477,691.1609	
Easting (M)	268,465.0376	
Elevation (M)*	78.242	
Northing (SFT)	1,567,225.0837	
Easting (SFT)	880,789.0442	
Elevation (SFT)*	256.698	

Convergence Angle	0	47	27.6555355
Scale Factor	0.999987458		
Elevation Adjust. Factor	0.9999877215		
Combined Adjust. Factor	0.9999751796		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	33	21	32.2118388
Longitude	93	24	47.8967400
Ellipsoid Height:	51.177		
Grid Northing (Meters)	477,691.5011		
Grid Easting (Meters)	268,465.3710		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST END OF PARAPET WALL	260	4.75	15.6
MK # 2	NORTHEASTERN MOST GUARD RAIL POST	90	13.00	42.7
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SHRV</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARHP	Ref Mon # 2	ARCM	Ref Mon # 3	SHRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM Q 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).</td> </tr> </table>	Comments	VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM Q 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARHP										
Ref Mon # 2	ARCM										
Ref Mon # 3	SHRV										
Comments											
VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM Q 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).											

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	33 21 32.2006464
Longitude	93 24 47.9094516
Ellipsoid Height (M):	51.723
Geoid Height (M):	-26.521

Location Description
FROM THE JCT. OF HWY. 82 AND HWY. 53 NORTH IN BUCKNER, GO EAST ON HWY. 82 FOR 2.09 KM (1.30 MILES) TO A BRIDGE AT THE LAFAYETTE AND COLUMBIA COUNTY LINE AND THE STATION ON THE NORTHEAST CORNER BEHIND THE GUARD RAIL. THE STATION IS 8.1 METERS NORTH OF THE CENTERLINE OF HWY. 82 AND 1.0 METER NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "140001" SET ON TOP OF A REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140002	Date Monumented 4/20/1994	Monumented By AHTD	County COLUMBIA	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	476,663.4801	
Easting (M)	274,759.3730	
Elevation (M)*	95.401	
Northing (SFT)	1,563,853.4343	
Easting (SFT)	901,439.7096	
Elevation (SFT)*	312.995	

Convergence Angle	0	45	11.1105035
Scale Factor	0.999989203		
Elevation Adjust. Factor	0.9999850287		
Combined Adjust. Factor	0.9999742319		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station
MK # 2	NONE				Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 HOPEPORT Ref Mon # 2 MAGAPORT Ref Mon # 3 BEECH	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Old ZC=93.384 M, **MONUMENT NOT FOUND IN MAY OF 2012**</td> </tr> </table>	Comments	Old ZC=93.384 M, **MONUMENT NOT FOUND IN MAY OF 2012**
Comments			
Old ZC=93.384 M, **MONUMENT NOT FOUND IN MAY OF 2012**			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140002A	Date Monumented 4/20/1994	Monumented By AHTD	County COLUMBIA	Route 82	Job Number: RX0018,07ST01,070619
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	476,581.6763 0.0010
Easting (M)	275,383.2958 0.0010
Elevation (M)*	89.816

Northing (SFT)	1,563,585.0497	
Easting (SFT)	903,486.6963	
Elevation (SFT)*	294.673	

Convergence Angle	0 44 57.5827008
Scale Factor	0.999989340
Elevation Adjust. Factor	0.9999859051
Combined Adjust. Factor	0.9999752452

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)
Latitude	33 20 59.2096884
Longitude	93 20 19.7740104
Ellipsoid Height:	63.361
Grid Northing (Meters)	476,581.6762
Grid Easting (Meters)	275,383.2992

Location Description

FROM THE JCT. OF HWY. 82-82B AND HWY. 19 IN NORTHERN MAGNOLIA, GO WEST ON HWY. 82 FOR 10.90 KM (6.77 MILES) TO THE JCT. OF HWY. 82 AND HWY. 98 (WHICH LEADS EAST TO THE TOWN OF WALDO) AND THE STATION ON THE RIGHT IN A LARGE GRASSY ISLAND SEPARATING THE TWO LANES OF HWY. 98. THE STATION IS 21.0 METERS NORTHEAST OF THE CENTERLINE OF HWY. 82 AND 1.0 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "140002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF DROP INLET GRATE	260	5.60	18.4
MK # 2	WEST EDGE OF CONCRETE ISLAND CURB	270	7.00	23.0
MK # 3	EAST EDGE OF CONCRETE ISLAND CURB	90	6.20	20.3

AZ Mark Station	140015
Geodetic Azimuth	
Grid Azimuth	

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARHP</p> <p>Ref Mon # 2 ARCM</p> <p>Ref Mon # 3 SHRV</p>	<p style="text-align: center;">Comments</p> <p>*****Old ZC = 89.867 M***** *****Old ZC = 89.882 M***** UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM L 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140003	Date Monumented 4/20/1994	Monumented By AHTD	County COLUMBIA	Route 82	Job Number: RX0018,07ST01
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	474,147.5753
Easting (M)	278,438.2638
Elevation (M)*	103.684
Northing (SFT)	1,555,599.1700
Easting (SFT)	913,509.5372
Elevation (SFT)*	340.169

Convergence Angle	0 43 50.7869435
Scale Factor	0.999993874
Elevation Adjust. Factor	0.9999837289
Combined Adjust. Factor	0.9999776030

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	33	19	41.4998184
Longitude	93	18	20.4182964
Ellipsoid Height:	76.780		
Grid Northing (Meters)	474,147.9091		
Grid Easting (Meters)	278,438.5730		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN FENCE CORNER POST	30		1.20	3.9
MK # 2	NONE				
MK # 3	NONE				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SHRV</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARHP	Ref Mon # 2	ARCM	Ref Mon # 3	SHRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> <p>**PREVIOUS ELEV. (103.760 m) FROM UNDOCUMENTED SOURCE**</p> <p>UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM J 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, L 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).</p> </td> </tr> </table>	Comments	<p>**PREVIOUS ELEV. (103.760 m) FROM UNDOCUMENTED SOURCE**</p> <p>UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM J 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, L 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).</p>
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARHP										
Ref Mon # 2	ARCM										
Ref Mon # 3	SHRV										
Comments											
<p>**PREVIOUS ELEV. (103.760 m) FROM UNDOCUMENTED SOURCE**</p> <p>UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM J 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, L 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).</p>											

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	33 19 41.4888564
Longitude	93 18 20.4300864
Ellipsoid Height (M):	77.275
Geoid Height (M):	-26.411

Location Description
<p>FROM THE JCT. OF HWY. 82-82B AND HWY. 19 IN NORTHERN MAGNOLIA, GO WEST ON HWY. 82 FOR 6.51 KM (4.05 MILES) TO THE STATION ON THE RIGHT IN FRONT OF "DELTIC CORP." TIMBER OPERATION. THE STATION IS 21.0 METERS NORTHEAST OF THE CENTERLINE OF HWY. 82, 25.8 METERS NORTHWEST OF THE CENTER OF A GRAVEL COUNTY ROAD AND 1.10 METERS SOUTHWEST OF A WITNESS POST SET ALONG A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "140003" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140003A	Date Monumented 4/20/1994	Monumented By AHTD	County COLUMBIA	Route 82	Job Number: RX0018,07ST01
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	474,586.6987
Easting (M)	277,859.4123
Elevation (M)*	106.910
Northing (SFT)	1,557,039.8607
Easting (SFT)	911,610.4219
Elevation (SFT)*	350.753

Convergence Angle	0 44	3.4346176
Scale Factor	0.999993046	
Elevation Adjust. Factor	0.9999832226	
Combined Adjust. Factor	0.9999762688	

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	33	19	55.5114540
Longitude	93	18	43.0158816
Ellipsoid Height:	79.929		
Grid Northing (Meters)	474,587.0191		
Grid Easting (Meters)	277,859.7220		

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHP Ref Mon # 2 ARCM Ref Mon # 3 SHRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> **PREVIOUS ELEV. (106.945 m) FROM UNDOCUMENTED SOURCE** UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM J 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, L 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING). </td> </tr> </table>	Comments	**PREVIOUS ELEV. (106.945 m) FROM UNDOCUMENTED SOURCE** UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM J 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, L 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).
Comments			
PREVIOUS ELEV. (106.945 m) FROM UNDOCUMENTED SOURCE UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM J 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, L 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	33 19 55.5009276
Longitude	93 18 43.0277004
Ellipsoid Height (M):	80.493
Geoid Height (M):	-26.419

Location Description
FROM THE JCT. OF HWY. 82-82B AND HWY. 19 IN NORTHERN MAGNOLIA, GO WEST ON HWY. 82 FOR 7.24 KM (4.50 MILES) TO THE STATION ON THE LEFT. THE STATION IS 20.9 METERS SOUTHWEST OF THE CENTERLINE OF HWY. 82, 38.5 METERS NORTHWEST OF A FIELD ENTRANCE, 9.2 METERS NORTHEAST OF A FENCE LINE AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "140003A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

AZ Mark Station	140003
Geodetic Azimuth	
Grid Azimuth	

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140004	Date Monumented 4/20/1994	Monumented By AHTD	County COLUMBIA	Route 82	Job Number: RX0018,07ST01
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	471,371.7886	
Easting (M)	281,651.4759	
Elevation (M)*	81.227	
Northing (SFT)	1,546,492.2764	
Easting (SFT)	924,051.5505	
Elevation (SFT)*	266.493	

Convergence Angle	0	42	40.5095469
Scale Factor	0.999999224		
Elevation Adjust. Factor	0.9999872530		
Combined Adjust. Factor	0.9999864770		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	33	18	12.7202184
Longitude	93	16	14.8538568
Ellipsoid Height:	54.351		
Grid Northing (Meters)	471,372.1111		
Grid Easting (Meters)	281,651.7780		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF PARAPET WALL	110	4.40	14.4
MK # 2	NORTHWEST CORNER OF PARAPET WALL	46	15.50	50.9
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SHRV</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARHP	Ref Mon # 2	ARCM	Ref Mon # 3	SHRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> <p>**PREVIOUS ELEV. (81.244 m) FROM UNDOCUMENTED SOURCE** UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM T 203 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, L 202, AND J 202. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).</p> </td> </tr> </table>	Comments	<p>**PREVIOUS ELEV. (81.244 m) FROM UNDOCUMENTED SOURCE** UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM T 203 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, L 202, AND J 202. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).</p>
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARHP										
Ref Mon # 2	ARCM										
Ref Mon # 3	SHRV										
Comments											
<p>**PREVIOUS ELEV. (81.244 m) FROM UNDOCUMENTED SOURCE** UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM T 203 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, L 202, AND J 202. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).</p>											

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Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	33 18 12.7096308
Longitude	93 16 14.8653804
Ellipsoid Height (M):	54.856
Geoid Height (M):	-26.369

Location Description
<p>FROM THE JCT. OF HWY. 82-82B AND HWY. 19 IN NORTHERN MAGNOLIA, GO WEST ON HWY. 82 FOR 2.17 KM (1.35 MILES) TO A BRIDGE OVER "BIG CREEK" AND THE STATION ON THE SOUTHWEST END OF THE BRIDGE BEHIND THE GUARD RAIL. THE STATION IS 7.9 METERS SOUTHWEST OF THE CENTERLINE OF HWY. 82 AND 1.0 METER SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "140004" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140004A	Date Monumented 4/20/1994	Monumented By AHTD	County COLUMBIA	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1986)
Northing (M)	471,988.1001
Easting (M)	280,968.9160
Elevation (M)*	88.680
Northing (SFT)	1,548,514.2917
Easting (SFT)	921,812.1852
Elevation (SFT)*	290.944

Convergence Angle	0	42	55.4419089
Scale Factor	0.999998020		
Elevation Adjust. Factor	0.9999860834		
Combined Adjust. Factor	0.9999841034		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>FROM THE JCT. OF HWY. 82-82B AND HWY. 19 IN NORTHWEST MAGNOLIA, GO WEST ON HWY. 82 FOR 3.14 KM (1.95 MILES) TO A GAS LINE RIGHT OF WAY CLEARING AND THE STATION ON THE RIGHT. THE STATION IS 18.6 METERS NORTHEAST OF THE CENTERLINE OF HWY. 82, 11.0 METERS SOUTHWEST OF A FENCE AND 1.0 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "140004A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	GAS LINE MARKER		85	11.60	38.1
MK # 2	NBC IN 6" PINE TREE		343	18.30	60.0
MK # 3	NONE				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 HOPEPORT</p> <p>Ref Mon # 2 MAGAPORT</p> <p>Ref Mon # 3 BEECH</p>	<p style="text-align: center;">Comments</p> <p>MONUMENT NOT FOUND IN MAY OF 2012</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140005A	Date Monumented 9/10/2001	Monumented By AHTD	County COLUMBIA	Route N/A	Job Number: 070177,070304
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	467,438.2031	
Easting (M)	285,916.4540	
Elevation (M)*	100.749	
Northing (SFT)	1,533,586.8380	
Easting (SFT)	938,044.2328	
Elevation (SFT)*	330.540	

Convergence Angle	0	41	7.2263781
Scale Factor	1.000007131		
Elevation Adjust. Factor	0.9999841895		
Combined Adjust. Factor	0.9999913204		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	2	19.80	65.0
MK # 2	LIGHT POLE	334	36.80	120.7
MK # 3	LIGHT POLE	255	13.20	43.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 S 197	3-Wire levels ran in Job 070177 by S5101 in 05/2002 from NGS H120. Verified March 2009 by Crew S5110 with Digital Levels from 2nd Order NGS mark Magnolia RM 2.
Ref Mon # 2 MOSS	
Ref Mon # 3 AHTD HOPE 1	

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 16 6.7268892
Longitude	93 13 28.1962344
Ellipsoid Height (M):	74.357
Geoid Height (M):	-26.311

Location Description
<p>TO REACH THE STATION FROM THE COLUMBIA COUNTY COURT HOUSE, LOCATED IN MAGNOLIA, GO EAST ON U.S. HIGHWAY 82B (MAIN STREET) FOR 1.448 KM (0.9 MI) TO FREDRICK STREET. TURN LEFT (NORTH) ON N. FREDRICK STREET FOR 0.193 KM (0.12 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.80 METERS WEST OF THE CENTER OF FREDRICK STREET, 10.50 METERS SOUTH OF THE CENTER OF KROGER SHOPPING CENTER ENTRANCE, AND 1.820 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "140005A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 386.432 METERS.</p>

AZ Mark Station	140005
Geodetic Azimuth	2 14 15
Grid Azimuth	2 55 22

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140006	Date Monumented 5/19/2008	Monumented By AHTD	County Columbia	Route 79	Job Number: 070301
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	477,742.5301	
Easting (M)	289,387.1140	
Elevation (M)*	109.826	
Northing (SFT)	1,567,393.6175	
Easting (SFT)	949,430.8898	
Elevation (SFT)*	360.321	

Convergence Angle	0	39	54.7621951
Scale Factor	0.999986876		
Elevation Adjust. Factor	0.9999827650		
Combined Adjust. Factor	0.9999696412		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole with guy wire	182	18.17	59.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP Ref Mon # 2 TXMA Ref Mon # 3 ARCM	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 21 42.4977624
Longitude	93 11 18.7243944
Ellipsoid Height (M):	83.475
Geoid Height (M):	-26.351

Location Description
To reach the station from the junction of highways 79 and 98 east just north of McNeil go south on hwy-79 for 0.50 miles to the station on the left. 45.5 feet east of the center of hwy-79, 71.0 feet north of the center of a gravel drive and 8.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "140006 2008" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140006A	Date Monumented 5/19/2008	Monumented By AHTD	County Columbia	Route 79	Job Number: 070301
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	478,320.6451	
Easting (M)	289,508.1330	
Elevation (M)*	117.986	
Northing (SFT)	1,569,290.3165	
Easting (SFT)	949,827.9330	
Elevation (SFT)*	387.092	

Convergence Angle	0	39	52.2875357
Scale Factor	0.999985818		
Elevation Adjust. Factor	0.9999814845		
Combined Adjust. Factor	0.9999673028		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	power pole w/guy	10	30.54	100.2
MK # 2	Service pole	245	4.15	13.6
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP Ref Mon # 2 ARCM Ref Mon # 3 TXMA	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 22 1.3070640
Longitude	93 11 14.3029176
Ellipsoid Height (M):	91.633
Geoid Height (M):	-26.353

Location Description
To reach the station from the junction of highways 79 and 98 east just north of McNeil go south on hwy-79 for 0.20 miles to the station on the right. 46.0 feet west of the center of hwy-79, 67.4 feet north of a paved drive and 35.0 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "140006A 2008"" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140007	Date Monumented 5/19/2008	Monumented By AHTD	County Columbia	Route NA	Job Number: 070301,070366
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	481,450.6671	
Easting (M)	293,340.9240	
Elevation (M)*	68.069	
Northing (SFT)	1,579,559.3970	
Easting (SFT)	962,402.6815	
Elevation (SFT)*	223.323	

Convergence Angle	0	38	30.0688097
Scale Factor	0.999980174		
Elevation Adjust. Factor	0.9999893179		
Combined Adjust. Factor	0.9999694921		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach the station from the junction of highways 79 and 98 east just north of McNeil go north on hwy-79 for 2.50 miles to county road 62, turn right and go 0.30 miles on co. rd 62 to the station on the left. 28.0 feet north of the center of co. road 62 and 1.50 feet south of a witness post.. The station mark is a 2 1/2 inch cap stamped "140007 2008" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	None				AZ Mark Station	140007A
MK # 2					Geodetic Azimuth	93 54 42
MK # 3					Grid Azimuth	94 33 11

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARHP Ref Mon # 3 TXMA	Elev. established by S5102 in May of 2008 by 3-Wire Levels from 1st Order NGS BM B 120 under Job #070301.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140007A	Date Monumented 5/19/2008	Monumented By AHTD	County Columbia	Route NA	Job Number: 070301,070366
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	481,415.9401	
Easting (M)	293,776.9950	
Elevation (M)*	74.217	
Northing (SFT)	1,579,445.4635	
Easting (SFT)	963,833.3578	
Elevation (SFT)*	243.494	

Convergence Angle	0	38	20.6165904
Scale Factor	0.999980226		
Elevation Adjust. Factor	0.9999883531		
Combined Adjust. Factor	0.9999685793		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Cross tie post	329	3.20	10.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARHP Ref Mon # 3 TXMA	Elev. established by S5102 in May of 2008 by 3-Wire Levels from 1st Order NGS BM B 120 under Job #070301.

Location Description	
To reach the station from the junction of highways 79 and 98 east just north of McNeil go north on hwy-79 for 2.50 miles to county road 62, turn right and go 0.60 miles on co. rd 62 to the station on the right about 10 feet above the road surface on top of a high bank. 36.7 feet south of the center of co. road 62 and 10.0 feet south of a witness post.. The station mark is a 2 1/2 inch cap stamped "140007A 2008"" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140008	Date Monumented 5/20/2008	Monumented By AHTD	County Columbia	Route NA	Job Number: 070301
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	479,812.7741	
Easting (M)	294,098.5300	
Elevation (M)*	66.982	
Northing (SFT)	1,574,185.7430	
Easting (SFT)	964,888.2605	
Elevation (SFT)*	219.757	

Convergence Angle	0	38	13.2672174
Scale Factor	0.999983041		
Elevation Adjust. Factor	0.9999894885		
Combined Adjust. Factor	0.9999725296		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Power pole	95	26.52	87.0	
MK # 2	48 inch white oak	277	40.54	133.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARHP Ref Mon # 3 TXMA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140009	Date Monumented 9/13/2011	Monumented By AHTD	County COLUMBIA	Route 79	Job Number: 070365
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	470,479.0259	
Easting (M)	287,017.7637	
Elevation (M)*	108.002	
Northing (SFT)	1,543,563.2708	
Easting (SFT)	941,657.4464	
Elevation (SFT)*	354.335	

Convergence Angle	0	40	44.1903886
Scale Factor	1.000000879		
Elevation Adjust. Factor	0.9999830513		
Combined Adjust. Factor	0.9999839303		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF HEADWALL	93	2.19	7.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.</td> </tr> </table>	Comments	ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.
Comments			
ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.			

Location Description
THE STATION MARK IS LOCATED IN THE SOUTHWEST CORNER OF THE INTERSECTION OF STATE HIGHWAY 82W AND 79, NORTHEAST OF MAGNOLIA, 91.0 FEET SOUTHWEST OF THE SOUTH EDGE OF PAVEMENT OF HIGHWAY 82, 72.0 FEET NORTHWEST OF CENTERLINE OF HIGHWAY 79, 5.3 FEET WEST OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "140009 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140009A	Date Monumented 9/13/2011	Monumented By AHTD	County COLUMBIA	Route 79	Job Number: 070365
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	469,981.4309	
Easting (M)	286,934.8227	
Elevation (M)*	107.807	
Northing (SFT)	1,541,930.7445	
Easting (SFT)	941,385.3308	
Elevation (SFT)*	353.698	

Convergence Angle	0	40	45.8568770
Scale Factor	1.000001884		
Elevation Adjust. Factor	0.9999830818		
Combined Adjust. Factor	0.9999849658		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TELEPHONE BOX	353	1.04	3.4	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140010	Date Monumented 9/13/2011	Monumented By AHTD	County COLUMBIA	Route 82B	Job Number: 070365
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	467,072.0520	
Easting (M)	286,488.0040	
Elevation (M)*	86.318	
Northing (SFT)	1,532,385.5573	
Easting (SFT)	939,919.3931	
Elevation (SFT)*	283.195	

Convergence Angle	0	40	54.7726933
Scale Factor	1.000007881		
Elevation Adjust. Factor	0.9999864541		
Combined Adjust. Factor	0.9999943350		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	265	1.49	4.9
MK # 2	LIGHT POLE	181	9.75	32.0
MK # 3	TELEPHONE BOX	125	30.48	100.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.</td> </tr> </table>	Comments	ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.
Comments			
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140010A	Date Monumented 9/13/2011	Monumented By AHTD	County COLUMBIA	Route 82	Job Number: 070365
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	466,852.9674	
Easting (M)	287,027.4654	
Elevation (M)*	85.836	
Northing (SFT)	1,531,666.7772	
Easting (SFT)	941,689.2761	
Elevation (SFT)*	281.614	

Convergence Angle	0	40	43.0514599
Scale Factor	1.000008327		
Elevation Adjust. Factor	0.9999865297		
Combined Adjust. Factor	0.9999948566		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	108	1.46	4.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.</td> </tr> </table>	Comments	ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.
Comments			
ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND 82, EAST OF MAGNOLIA, GO EAST ON HIGHWAY 82 0.2 MILES TO THE STATION MARK ON THE LEFT, WEST 12.0 FEET OF CENTERLINE OF DRIVE , NORTH 76.0 FEET OF CENTERLINE HIGHWAY 82, SOUTH 84.8 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "140010A 2011" SET ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140011	Date Monumented 9/13/2011	Monumented By AHTD	County COLUMBIA	Route 82	Job Number: 070365
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	465,587.3254	
Easting (M)	291,135.8030	
Elevation (M)*	105.229	
Northing (SFT)	1,527,514.4167	
Easting (SFT)	955,168.0470	
Elevation (SFT)*	345.240	

Convergence Angle	0	39	13.9034467
Scale Factor	1.000010901		
Elevation Adjust. Factor	0.9999834864		
Combined Adjust. Factor	0.9999943872		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	COMBINATION POLE	79	23.32	76.5	
MK # 2	COMBINATION POLE	287	18.71	61.4	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER. <div style="height: 100px;"></div>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140011A	Date Monumented 9/13/2011	Monumented By AHTD	County COLUMBIA	Route 82	Job Number: 070365
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	465,533.5560	
Easting (M)	291,806.7289	
Elevation (M)*	98.283	
Northing (SFT)	1,527,338.0083	
Easting (SFT)	957,369.2431	
Elevation (SFT)*	322.450	

Convergence Angle	0	38	59.3844931
Scale Factor	1.000010999		
Elevation Adjust. Factor	0.9999845764		
Combined Adjust. Factor	0.9999955753		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH GUY	275	18.07	59.3
MK # 2	COMBINATION POLE WITH GUY	81	12.50	41.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.</td> </tr> </table>	Comments	ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.
Comments			
ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.			

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140012	Date Monumented 9/13/2011	Monumented By AHTD	County COLUMBIA	Route 82	Job Number: 070365
--------------------------	-------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	465,343.2954	
Easting (M)	295,754.6153	
Elevation (M)*	95.501	
Northing (SFT)	1,526,713.7950	
Easting (SFT)	970,321.6004	
Elevation (SFT)*	313.322	

Convergence Angle	0	37	33.9841848
Scale Factor	1.000011311		
Elevation Adjust. Factor	0.9999850130		
Combined Adjust. Factor	0.9999963239		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.</td> </tr> </table>	Comments	ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.
Comments			
ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND 82, EAST OF MAGNOLIA, GO EAST ON HIGHWAY 82 5.8 MILES TO THE STATION MARK ON THE RIGHT, EAST 51.0 FEET OF CENTERLINE COUNTY ROAD 408, SOUTH 28.0 FEET OF CENTERLINE HIGHWAY 82, NORTH 45.0 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "140012 2011" SET ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140012A	Date Monumented 9/13/2011	Monumented By AHTD	County COLUMBIA	Route 82	Job Number: 070365
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	465,340.5068	
Easting (M)	296,445.4314	
Elevation (M)*	83.310	
Northing (SFT)	1,526,704.6461	
Easting (SFT)	972,588.0529	
Elevation (SFT)*	273.326	

Convergence Angle	0	37	19.0479442
Scale Factor	1.000011300		
Elevation Adjust. Factor	0.9999869261		
Combined Adjust. Factor	0.9999982260		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE WITH GUY	78	38.71	127.0	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER. <div style="height: 100px;"></div>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140013	Date Monumented 9/13/2011	Monumented By AHTD	County COLUMBIA	Route 82	Job Number: 070365
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	465,130.0320	
Easting (M)	301,044.7961	
Elevation (M)*	91.832	
Northing (SFT)	1,526,014.1133	
Easting (SFT)	987,677.8019	
Elevation (SFT)*	301.284	

Convergence Angle	0	35	39.5609722
Scale Factor	1.000011645		
Elevation Adjust. Factor	0.9999855888		
Combined Adjust. Factor	0.9999972337		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	COMBINATION POLE	120	17.37	57.0	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140013A	Date Monumented 9/13/2011	Monumented By AHTD	County COLUMBIA	Route 82	Job Number: 070365
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	465,139.1280	
Easting (M)	302,005.9105	
Elevation (M)*	91.709	
Northing (SFT)	1,526,043.9558	
Easting (SFT)	990,831.0580	
Elevation (SFT)*	300.882	

Convergence Angle	0	35	18.7837168
Scale Factor	1.000011605		
Elevation Adjust. Factor	0.9999856081		
Combined Adjust. Factor	0.9999972129		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH GUY	314	16.15	53.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.</td> </tr> </table>	Comments	ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.
Comments			
ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.			

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140014	Date Monumented 5/8/2012	Monumented By AHTD	County COLUMBIA	Route 82	Job Number: 07ST01
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	476,838.0919	
Easting (M)	270,632.5546	
Elevation (M)*	92.202	
Northing (SFT)	1,564,426.3065	
Easting (SFT)	887,900.3062	
Elevation (SFT)*	302.499	

Convergence Angle	0	46	40.4851331
Scale Factor	0.999988981		
Elevation Adjust. Factor	0.9999855307		
Combined Adjust. Factor	0.9999745119		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 344E, WEST OF WALDO .GO WEST ON HIGHWAY 82,0.3 MILES TO THE STATION ON THE RIGHT. WEST 128 FEET OF THE CENTER LINE OF COUNTY ROAD 131, 36.6 FEET NORTH OF THE CENTER LINE OF HIGHWAY 82,SOUTH 8.0 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "140014 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHP Ref Mon # 2 ARCM Ref Mon # 3 SHRV	Comments VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM Q 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140014A	Date Monumented 5/10/2012	Monumented By AHTD	County COLUMBIA	Route 82	Job Number: 07ST01,070619
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	476,776.4834 0.0020
Easting (M)	271,196.5579 0.0020
Elevation (M)*	95.254

Northing (SFT)	1,564,224.1793	
Easting (SFT)	889,750.7070	
Elevation (SFT)*	312.511	

Convergence Angle	0	46	28.2593198
Scale Factor	0.999989081		
Elevation Adjust. Factor	0.9999850518		
Combined Adjust. Factor	0.9999741330		

SUPERCEDED CONTROL

Horizontal Datum	NAD83(1997)		
Latitude	33	21	3.7250064
Longitude	93	23	1.7860056
Ellipsoid Height:	68.762		
Grid Northing (Meters)	476,776.4760		
Grid Easting (Meters)	271,196.5619		

Location Description

TO REACH THE STATION MARK FROM JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 344E, WEST OF WALDO, IN THE SOUTH EAST CORNER OF THE INTERSECTION. SOUTH 81.6 FEET OF THE CENTER LINE OF HIGHWAY 82,EAST 46.7 FEET OF THE CENTER LINE OF HIGHWAY 344E,NORTH 8.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "140014A 2012"ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	170	3.05	10.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP	VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM Q 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING). **COORDINATES UPDATED TO NAD 83(2011) IN APRIL 2025 DURING JOB 070619 BY CREW S5102.**
Ref Mon # 2 ARCM	
Ref Mon # 3 SHRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140015	Date Monumented 5/8/2012	Monumented By AHTD	County COLUMBIA	Route 82	Job Number: 07ST01
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAVD 88	
Northing (M)	476,663.1747	
Easting (M)	274,758.9103	
Elevation (M)*	95.203	
Northing (SFT)	1,563,852.4323	
Easting (SFT)	901,438.1915	
Elevation (SFT)*	312.344	

Convergence Angle	0	45	11.1204309
Scale Factor	0.999989203		
Elevation Adjust. Factor	0.9999850598		
Combined Adjust. Factor	0.9999742630		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 98 , WEST OF WALDO, GO WEST ON HIGHWAY 82, 0.4 MILES TO THE STATION ON THE RIGHT.SOUTH 27.6 FEET OF THE NEAREST RAIL, NORTH 70.2 FEET OF THE CENTERLINE OF HIGHWAY 82 .SOUTH 3.0 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "140015 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	140002A
			Meters	Feet		
MK # 1					Geodetic Azimuth Grid Azimuth	
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP Ref Mon # 2 ARCM Ref Mon # 3 SHRV	VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM L 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140016	Date Monumented 5/8/2012	Monumented By AHTD	County COLUMBIA	Route 82	Job Number: 07ST01
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	470,775.7394	
Easting (M)	282,395.5832	
Elevation (M)*	81.641	
Northing (SFT)	1,544,536.7383	
Easting (SFT)	926,492.8425	
Elevation (SFT)*	267.851	

Convergence Angle	0	42	24.2531164
Scale Factor	1.000000396		
Elevation Adjust. Factor	0.9999871880		
Combined Adjust. Factor	0.9999875840		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	SOUTH EAST GATE POST	220	19.51	64.0	140004
MK # 2	FIRE HYDRANT	218	19.20	63.0	
MK # 3	GAS LINE VENT	168	23.16	76.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP	VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM T 203 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, L 202, AND J 202. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).
Ref Mon # 2 ARCM	
Ref Mon # 3 SHRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140017	Date Monumented 8/14/2017	Monumented By AHTD	County COLUMBIA	Route US 371	Job Number: 070444
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	468,274.2604	0.0030			
Easting (M)	284,113.6586	0.0030			
Elevation (M)*	89.694				
Northing (SFT)	1,536,329.8027				
Easting (SFT)	932,129.5616				
Elevation (SFT)*	294.270				

Convergence Angle	0	41	46.4304030
Scale Factor	1.000005442		
Elevation Adjust. Factor	0.9999859244		
Combined Adjust. Factor	0.9999913663		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	PP W/TRANSFORMER		330	7.32	24.0
MK # 2	FIRE HYDRANT		169	32.61	107.0
MK # 3	E END OF CHLNK FENCE		295	11.58	38.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARHP Ref Mon # 3 SHRV	ELEV. BASED ON DIGITAL LEVELS BY S5112 FOR JOB #070444 IN AUG. 2017 FROM NGS 2ND ORDER BM T 203 TO NGS 2ND ORDER NGS BM H 120.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140017A	Date Monumented 8/14/2017	Monumented By AHTD	County COLUMBIA	Route US 371	Job Number: 070444
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	468,711.2356	0.0030			
Easting (M)	284,070.2985	0.0030			
Elevation (M)*	85.028				
Northing (SFT)	1,537,763.4455				
Easting (SFT)	931,987.3043				
Elevation (SFT)*	278.963				

Convergence Angle	0	41	47.4830039		
Scale Factor	1.000004543				
Elevation Adjust. Factor	0.9999866565				
Combined Adjust. Factor	0.9999911994				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JCT OF US-371 & US-82, SW OF MAGNOLIA, GO NORTH ON US-371 0.8 MILES TO THE STATION ON RIGHT. 25' EAST OF THE C/L OF THE HIGHWAY, 23.5' SOUTH OF CTR OF DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "140017A 2017" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	CP W/LIGHT		64	3.28	10.8
MK # 2	CTR OF DBL CHLNK GATE		6	7.44	24.4
MK # 3					

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARCM	<p>ELEV. BASED ON DIGITAL LEVELS BY S5112 FOR JOB #070444 IN AUG. 2017 FROM NGS 2ND ORDER BM T 203 TO NGS 2ND ORDER NGS BM H 120.</p>
Ref Mon # 2	ARHP	
Ref Mon # 3	SHRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140018	Date Monumented 2/24/2020	Monumented By ARDOT	County COLUMBIA	Route 98	Job Number: 070514
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	474,095.2439	0.0030			
Easting (M)	299,387.1047	0.0030			
Elevation (M)*					
Northing (SFT)	1,555,427.4794				
Easting (SFT)	982,239.1927				
Elevation (SFT)*					

Convergence Angle	0	36	17.4463486
Scale Factor	0.999993505		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	348	14.17	46.5
MK # 2	NE END 24" TWIN CMP	323	20.12	66.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM Ref Mon # 2 ARHP Ref Mon # 3 LTEC, SHRV	Comments LAT: N 33-19-48 LONG: W 93-04-51
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Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 33 19 47.7156252

Longitude 93 4 50.4459192

Ellipsoid Height (M): 48.890 0.0110

Geoid Height (M): -26.376 0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 98, EAST OF MAGNOLIA, GO WEST ON HIGHWAY 98 6.3 MILES TO THE MARK ON THE RIGHT, NORTHEAST 33' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 140018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140018A	Date Monumented 2/24/2020	Monumented By ARDOT	County COLUMBIA	Route N/A	Job Number: 070514
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	474,378.9377	0.0030			
Easting (M)	299,077.4397	0.0030			
Elevation (M)*					
Northing (SFT)	1,556,358.2314				
Easting (SFT)	981,223.2334				
Elevation (SFT)*					

Convergence Angle	0	36	24.2125751
Scale Factor	0.999992969		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 98, EAST OF MAGNOLIA, GO WEST ON HIGHWAY 98 6.6 MILES TO THE MARK ON THE RIGHT, NORTHEAST 14' OF THE C/L OF THE HIGHWAY AND 13.5' SOUTHEAST OF A DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 140018A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE	10	10.36	34.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARHP Ref Mon # 3 LTEC, SHRV	LAT: N 33-19-57 LONG: W 93-05-03 <div style="border: 1px solid black; height: 100px; width: 100%;"></div>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140019	Date Monumented 2/24/2020	Monumented By ARDOT	County COLUMBIA	Route N/A	Job Number: 070514
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	458,397.1668 0.0030
Easting (M)	300,435.6835 0.0030
Elevation (M)*	
Northing (SFT)	1,503,924.7047
Easting (SFT)	985,679.4049
Elevation (SFT)*	

Convergence Angle	0 35 51.2117570
Scale Factor	1.000026599
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 98, EAST OF MAGNOLIA, GO EAST ON HIGHWAY 98 4.85 MILES TO THE MARK ON THE RIGHT, NORTHWEST 19.3' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 140019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIBER OPTIC MARKER	234	19.05	62.5
MK # 2	WATER WELL	319	30.48	100.0
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM</p> <p>Ref Mon # 2 ARHP</p> <p>Ref Mon # 3 LTEC, SHRV</p>	<p style="text-align: center;">Comments</p> <p>LAT: N 33-11-19 LONG: W 93-04-04</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140020	Date Monumented 2/24/2020	Monumented By ARDOT	County COLUMBIA	Route N/A	Job Number: 070514
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	460,801.4792	0.0030			
Easting (M)	302,324.0433	0.0030			
Elevation (M)*					
Northing (SFT)	1,511,812.8530				
Easting (SFT)	991,874.7987				
Elevation (SFT)*					

Convergence Angle	0	35	10.9458809
Scale Factor	1.000021093		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 98, EAST OF MAGNOLIA, GO EAST ON HIGHWAY 98 2.7 MILES TO A GAS LINE RIGHT OF WAY AND TURN LEFT (EAST) AND GO 0.05 MILES TO THE MARK ON THE RIGHT, THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 140020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SERVICE POLE W/METER LOOP	313		
MK # 2	POWER POLE W/ TRANSFORMER	353		
MK # 3				

Area Reference Monuments (used for Processing)	Comments LAT: N 33-12-37 LONG: W 93-02-52
Ref Mon # 1 ARCM	
Ref Mon # 2 ARHP	
Ref Mon # 3 LTEC, SHRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 140020A	Date Monumented 2/24/2020	Monumented By ARDOT	County COLUMBIA	Route N/A	Job Number: 070514
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	461,211.9252 0.0030
Easting (M)	302,271.3859 0.0030
Elevation (M)*	

Northing (SFT)	1,513,159.4579	
Easting (SFT)	991,702.0386	
Elevation (SFT)*		

Convergence Angle	0	35	12.1746514
Scale Factor	1.000020176		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 98, EAST OF MAGNOLIA, GO EAST ON HIGHWAY 98 2.5 MILES TO THE MARK ON THE LEFT, EAST 40.5' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 140020A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 POWER POLE W/GUT AND TRANSFORMER	0	8.17	26.8	AZ Mark Station 140020
MK # 2 GUY	25	10.21	33.5	Geodetic Azimuth
MK # 3				Grid Azimuth

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM</p> <p>Ref Mon # 2 ARHP</p> <p>Ref Mon # 3 LTEC, SHRV</p>	<p style="text-align: center; margin: 0;">Comments</p> <p>LAT: N 33-12-51 LONG: W 93-02-54</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150001	Date Monumented 8/26/1996	Monumented By AHTD	County CONWAY	Route 9	Job Number: R80092,080494
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	93,561.6161	0.0020	
Easting (M)	334,604.4686	0.0020	
Elevation (M)*	109.847		

Northing (SFT)	306,960.0688		
Easting (SFT)	1,097,781.4941		
Elevation (SFT)*	360.391		

Convergence Angle	0	25	3.9366542
Scale Factor	0.999961345		
Elevation Adjust. Factor	0.9999827616		
Combined Adjust. Factor	0.9999441073		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	35	10	28.3094940
Longitude	92	43	4.5261768
Ellipsoid Height:	80.826		
Grid Northing (Meters)	93,562.0872		
Grid Easting (Meters)	334,604.6080		

Location Description

 THE STATION IS LOCATED ON THE NORTH EDGE OF MORRILTON NEAR THE NORTHWEST CORNER OF THE HWY-9 BRIDGE OVER INTERSTATE 40. 8.0 METERS WEST OF THE CENTER OF HWY-9, 5.20 METERS SOUTH OF THE END OF A METAL DRAIN PIPE, 4.60 METERS NORTH OF THE NORTHWEST END OF THE BRIDGE AND 0.74 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "150001 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT IN GUARD RAIL POST	169	4.37	14.3
MK # 2	PUNCH IN GUARD RAIL POST	137	1.40	4.6
MK # 3	PUNCH IN GUARD RAIL POST	14	3.12	10.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 D 293 Ref Mon # 2 P 291 Ref Mon # 3 M 49 BM OFFSET	ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150001A	Date Monumented 8/26/1996	Monumented By AHTD	County CONWAY	Route I-40	Job Number: R80092,080481,080494
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	93,472.7920 0.0020
Easting (M)	334,099.4658 0.0020
Elevation (M)*	103.005
Northing (SFT)	306,668.6518
Easting (SFT)	1,096,124.6640
Elevation (SFT)*	337.942

Convergence Angle	0 25 15.5350536
Scale Factor	0.999961448
Elevation Adjust. Factor	0.9999838354
Combined Adjust. Factor	0.9999452840

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (2002)		
Latitude	35 10 25.2915420		
Longitude	92 43 24.4639668		
Ellipsoid Height:	74.579		
Grid Northing (Meters)	93,472.7794		
Grid Easting (Meters)	334,099.4545		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER FENCE POST	102	33.57	110.1
MK # 2	COMBINATION POLE	112	35.32	115.9
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>D 293</td> </tr> <tr> <td>Ref Mon # 2</td> <td>P 291</td> </tr> <tr> <td>Ref Mon # 3</td> <td>M 49 BM OFFSET</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	D 293	Ref Mon # 2	P 291	Ref Mon # 3	M 49 BM OFFSET	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital lvels were ran from NGS BM: X326 during Job 080841 by crew S5102 in August 2013. ELEV WAS UPDATED FROM 337.93 TO 337.942 DURING JOB 080494 BY S5101 IN SEPT 2014. NEW ELEV IS BASED OFF OF NGS UPDATED 1ST ORDER LEVEL RUN AROUND MORRILTON INCLUDING MARKS UACCM AND PJTC CAMPUS.</td> </tr> </table>	Comments	Digital lvels were ran from NGS BM: X326 during Job 080841 by crew S5102 in August 2013. ELEV WAS UPDATED FROM 337.93 TO 337.942 DURING JOB 080494 BY S5101 IN SEPT 2014. NEW ELEV IS BASED OFF OF NGS UPDATED 1ST ORDER LEVEL RUN AROUND MORRILTON INCLUDING MARKS UACCM AND PJTC CAMPUS.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	D 293										
Ref Mon # 2	P 291										
Ref Mon # 3	M 49 BM OFFSET										
Comments											
Digital lvels were ran from NGS BM: X326 during Job 080841 by crew S5102 in August 2013. ELEV WAS UPDATED FROM 337.93 TO 337.942 DURING JOB 080494 BY S5101 IN SEPT 2014. NEW ELEV IS BASED OFF OF NGS UPDATED 1ST ORDER LEVEL RUN AROUND MORRILTON INCLUDING MARKS UACCM AND PJTC CAMPUS.											

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF HWY-95 AND INTERSTATE 40 IN MORRILTON GO EASTERLY ON I-40 FOR 2.01 KM. (1.25 MI.) TO THE STATION ON THE RIGHT NEAR THE 108 EXIT RAMP.1.14 METERS NORTH-NORTHEAST OF A CHAIN LINK RIGHT OF WAY FENCE AND 0.81 METERS NORTH-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "150001A 1996" SET ON TOP OF AN IRON ROD 1.12 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

AZ Mark Station	150001
Geodetic Azimuth	79 36 08.05551
Grid Azimuth	80 01 23.52924

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150002	Date Monumented 8/26/1996	Monumented By AHTD	County CONWAY	Route 9	Job Number: R80092,080494
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	95,735.1515	0.0020	
Easting (M)	336,313.7740	0.0020	
Elevation (M)*	117.253		

Northing (SFT)	314,091.0762		
Easting (SFT)	1,103,389.4402		
Elevation (SFT)*	384.687		

Convergence Angle	0	24	24.9831837
Scale Factor	0.999958961		
Elevation Adjust. Factor	0.9999815996		
Combined Adjust. Factor	0.9999405613		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	35	11	39.2386236
Longitude	92	41	57.5844216
Ellipsoid Height:	88.247		
Grid Northing (Meters)	95,735.6321		
Grid Easting (Meters)	336,313.9080		

Location Description

 TO REACH THE STATION FROM THE JUNCTION OF HWY-9 AND INTERSTATE 40 ON THE NORTH EDGE OF MORRILTON GO NORTHERLY ON HWY-9 FOR 3.30 KM. (2.05 MI.) TO THE STATION ON THE RIGHT. 10.30 METERS EAST OF THE CENTER OF HWY-9, 1.37 METERS WEST OF A WEB WIRE FENCE AND 1.14 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "150002 1996" SET ON TOP OF AN IRON ROD 1.07 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	174	21.97	72.1
MK # 2	CONCRETE RIGHT OF WAY MARKER	90	1.28	4.2
MK # 3	WOODEN FENCE POST	0	29.55	96.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 D 293 Ref Mon # 2 P 291 Ref Mon # 3 M 49 BM OFFSET	ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150002A	Date Monumented 8/26/1996	Monumented By AHTD	County CONWAY	Route 9	Job Number: R80092,080494
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	96,369.9958 0.0020
Easting (M)	336,308.9672 0.0020
Elevation (M)*	103.032

Northing (SFT)	316,173.8946	
Easting (SFT)	1,103,373.6699	
Elevation (SFT)*	338.032	

Convergence Angle	0	24	25.1974855
Scale Factor	0.999958291		
Elevation Adjust. Factor	0.9999838311		
Combined Adjust. Factor	0.9999421228		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)
Latitude	35 11 59.8377732
Longitude	92 41 57.9527088
Ellipsoid Height:	74.016
Grid Northing (Meters)	96,370.4771
Grid Easting (Meters)	336,309.1010

Location Description

 TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 9 AND INTERSTATE 40 IN MORRILTON GO NORTH ON HWY-9 FOR 3.94 KM. (2.45 MI.) TO THE STATION ON THE LEFT. 10.6 METERS WEST OF THE CENTER OF HWY-9 AND 0.84 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mmCAP STAMPED "150002A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 COMBINATION POLE	187	1.00	3.3	AZ Mark Station 150002
MK # 2 CROSS TIE CORNER POST	271	12.30	40.4	Geodetic Azimuth 179 09 33.02978
MK # 3 NONE				Grid Azimuth 179 33 58.22325

Area Reference Monuments (used for Processing) Ref Mon # 1 D 293 Ref Mon # 2 P 291 Ref Mon # 3 M 49 BM OFFSET	<div style="border: 1px solid black; padding: 5px;"> Comments ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014. </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150003	Date Monumented 9/5/1996	Monumented By AHTD	County CONWAY	Route 9	Job Number: R80092,080494
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	100,839.5588 0.0020
Easting (M)	337,867.4767 0.0020
Elevation (M)*	113.661

Northing (SFT)	330,837.7858	
Easting (SFT)	1,108,486.8798	
Elevation (SFT)*	372.901	

Convergence Angle	0	23	50.0583568
Scale Factor	0.999953842		
Elevation Adjust. Factor	0.9999821633		
Combined Adjust. Factor	0.9999360061		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)
Latitude	35 14 25.2273984
Longitude	92 40 57.5663484
Ellipsoid Height:	84.683
Grid Northing (Meters)	100,840.0621
Grid Easting (Meters)	337,867.5950

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-9 AND INTERSTATE 40 ON THE NORTH EDGE OF MORRILTON GO NORTHERLY ON HWY-9 FOR 9.09 KM. (5.65 MI.) TO THE STATION ON THE RIGHT. 12.02 METERS EAST-SOUTHEAST OF THE CENTER OF HWY-9 AND 0.56 METERS WEST-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "150003 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	35	29.79	97.7
MK # 2	FENCE CORNER POST	280	24.36	79.9
MK # 3	COMBINATION POLE	334	31.20	102.4

AZ Mark Station	150003A
Geodetic Azimuth	209 29 59.30691
Grid Azimuth	209 53 49.37974

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 D 293	ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.
Ref Mon # 2 P 291	
Ref Mon # 3 M 49 BM OFFSET	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150004	Date Monumented 9/22/1997	Monumented By AHTD	County CONWAY	Route 95	Job Number: 080386, 080387
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	93,601.6641	
Easting (M)	332,186.4420	
Elevation (M)*	102.090	
Northing (SFT)	307,091.4596	
Easting (SFT)	1,089,848.3518	
Elevation (SFT)*	334.939	

Convergence Angle	0	25	59.5502114
Scale Factor	0.999961320		
Elevation Adjust. Factor	0.9999839791		
Combined Adjust. Factor	0.9999452997		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	"X" CUT IN SW CORNER OF BRIDGE	347	2.56	8.4		
MK # 2	"X" CUT IN SE CORNER OF BRIDGE	68	15.53	50.9		
MK # 3	"X" CUT IN TO OF A GUARD RAIL POST	140	5.19	17.0		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 ARBT Ref Mon # 3 D 210	ELEVATIONS WERE BY CREW S5112 USING 3 WIRE DIGITAL LEVELS FROM U 326 ON 11/2010 AND CHECKED USING GPS ON D 210.

Vertical Determined By: 3rd Order - 3 Wire Level	
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 10 29.0110152
Longitude	92 44 40.1040528
Ellipsoid Height (M):	73.642
Geoid Height (M):	-28.448

Location Description
THE STATION IS AT THE JUNCTION OF INTERSTATE 40 AND STATE HIGHWAY 95, LOCATED IN THE NORTHWEST PART OF MORRILTON. THE STATION IS 25.836 METERS SOUTH OF THE CENTER OF INTERSTATE 40 EAST BOUND LANE, 7.896 METERS WEST OF THE CENTER OF STATE HIGHWAY 95 AND 0.78 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "150004 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150004A	Date Monumented 9/22/1997	Monumented By AHTD	County CONWAY	Route 247	Job Number: 080113
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	93,518.5941	
Easting (M)	332,992.1380	
Elevation (M)*	103.102	
Northing (SFT)	306,818.9208	
Easting (SFT)	1,092,491.7061	
Elevation (SFT)*	338.260	

Convergence Angle	0	25	41.0075450
Scale Factor	0.999961406		
Elevation Adjust. Factor	0.9999838202		
Combined Adjust. Factor	0.9999452268		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	182	63.36	207.9
MK # 2	GUY POLE	237	28.67	94.1
MK # 3	SQUARE CUT IN SW CORNER OF BRIDGE	358	2.58	8.5

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>150001</td> </tr> <tr> <td>Ref Mon # 2</td> <td>D 293</td> </tr> <tr> <td>Ref Mon # 3</td> <td>11B AZ MK RESET</td> </tr> </table>	Ref Mon # 1	150001	Ref Mon # 2	D 293	Ref Mon # 3	11B AZ MK RESET	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	150001							
Ref Mon # 2	D 293							
Ref Mon # 3	11B AZ MK RESET							
Comments								

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 10 26.5119636
Longitude	92 44 8.2382784
Ellipsoid Height (M):	74.066
Geoid Height (M):	-29.036

Location Description
<p>THE STATION IS AT THE JUNCTION OF INTERSTATE 40 AND STATE HIGHWAY 247, LOCATED IN THE NORTH PART OF MORRILTON. THE STATION IS 24.54 METERS SOUTH OF THE CENTER OF INTERSTATE 40 EAST BOUND LANE, 6.33 METERS WEST OF THE CENTER OF STATE HIGHWAY 247, 1.635 METERS SOUTHEAST OF A WEB WIRE FENCE AND 1.19 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "150004A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	150004
Geodetic Azimuth	275 29 30.35396
Grid Azimuth	275 55 11.45444

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150005	Date Monumented 9/3/2002	Monumented By AHTD	County CONWAY	Route 113	Job Number: 080209
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	92,187.9411	
Easting (M)	326,859.0190	
Elevation (M)*		
Northing (SFT)	302,453.2701	
Easting (SFT)	1,072,369.9648	
Elevation (SFT)*		

Convergence Angle	0	28	1.7979253
Scale Factor	0.999962971		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 113 LOCATED ON THE SOUTH SIDE OF BLACKWELL, GO SOUTHEAST ON STATE HIGHWAY 113 FOR 4.28 MILES TO THE STATION ON THE RIGHT. THE STATION IS 6.55 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 113, 6.25 METERS SOUTHEAST OF THE CENTER OF A GRAVEL DRIVE, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "150005 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				AZ Mark Station	150005A
MK # 2					Geodetic Azimuth	99 54 55
MK # 3					Grid Azimuth	100 22 56

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT	
Ref Mon # 2 PJTC CAMPUS	
Ref Mon # 3 AHTD LITTLE ROCK	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150005A	Date Monumented 9/3/2002	Monumented By AHTD	County CONWAY	Route 113	Job Number: 080209
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	92,072.9151	
Easting (M)	327,486.8400	
Elevation (M)*		
Northing (SFT)	302,075.8890	
Easting (SFT)	1,074,429.7409	
Elevation (SFT)*		

Convergence Angle	0	27	47.3411104
Scale Factor	0.999963098		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	203	4.85	15.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	RUSSPORT
Ref Mon # 2	PJTC CAMPUS
Ref Mon # 3	AHTD LITTLE ROCK

Comments

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 9 38.2115304
Longitude	92 47 45.3438888
Ellipsoid Height (M):	61.341
Geoid Height (M):	-28.519

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 113 LOCATED ON THE SOUTH SIDE OF BLACKWELL, GO SOUTHEAST ON STATE HIGHWAY 113 FOR 4.69 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7.90 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 113 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "150005A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150006	Date Monumented 1/11/2010	Monumented By AHTD	County CONWAY	Route 124	Job Number: 080382
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	109,209.9981	
Easting (M)	354,871.1910	
Elevation (M)*	102.001	
Northing (SFT)	358,299.8021	
Easting (SFT)	1,164,273.2325	
Elevation (SFT)*	334.649	

Convergence Angle	0	17	19.6753792
Scale Factor	0.999946776		
Elevation Adjust. Factor	0.9999839929		
Combined Adjust. Factor	0.9999307698		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	HINGED END OF GATE	137	6.86	22.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	DIGITAL LEVELS WERE RAN BY CREW S5105 IN APRIL 2010 FROM NGS MARK N 209 AND M 209.
Ref Mon # 2 ARBT	
Ref Mon # 3 ARLR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150007	Date Monumented 1/14/2010	Monumented By AHTD	County CONWAY	Route 124	Job Number: 080BR7
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	112,201.7561	
Easting (M)	329,300.2380	
Elevation (M)*	124.338	
Northing (SFT)	368,115.2615	
Easting (SFT)	1,080,379.1975	
Elevation (SFT)*	407.932	

Convergence Angle	0	27	9.3021494
Scale Factor	0.999944810		
Elevation Adjust. Factor	0.9999804877		
Combined Adjust. Factor	0.9999252988		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	15	5.85	19.2
MK # 2	CABLE MARKER	126	4.02	13.2
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	
Ref Mon # 2 ARBT	
Ref Mon # 3 ARLR	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 20 31.8413508
Longitude	92 46 39.9735192
Ellipsoid Height (M):	95.888
Geoid Height (M):	-28.450

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 213 AND 124, SOUTH OF JERUSALEM, GO WEST ON HIGHWAY 124 0.3 MILES TO THE STATION MARK ON THE RIGHT, EAST 52 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 9.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150007 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150007A	Date Monumented 1/14/2010	Monumented By AHTD	County CONWAY	Route 124	Job Number: 080BR7
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	112,638.3681	
Easting (M)	329,110.5330	
Elevation (M)*	127.907	
Northing (SFT)	369,547.7127	
Easting (SFT)	1,079,756.8070	
Elevation (SFT)*	419.642	

Convergence Angle	0	27	13.7534829
Scale Factor	0.999944525		
Elevation Adjust. Factor	0.9999799276		
Combined Adjust. Factor	0.9999244537		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/ 3 GUYS	344	14.48	47.5
MK # 2	SERVICE POLE	206	9.90	32.5
MK # 3	CABLE MARKER	350	20.42	67.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARBT Ref Mon # 3 ARFY	

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 20 45.9601692
Longitude	92 46 47.6231844
Ellipsoid Height (M):	99.457
Geoid Height (M):	-28.449

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 213 AND 124, SOUTH OF JERUSALEM, GO WEST ON HIGHWAY 124 0.6 MILES TO THE STATION MARK ON THE LEFT, WEST 41 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH NORTHEAST 32.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150007A 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150008	Date Monumented 10/18/2010	Monumented By AHTD	County CONWAY	Route 95	Job Number: 080386, 080387
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	99,168.9731	
Easting (M)	333,192.4830	
Elevation (M)*	106.441	
Northing (SFT)	325,356.8726	
Easting (SFT)	1,093,149.0046	
Elevation (SFT)*	349.215	

Convergence Angle	0	25	37.3688029
Scale Factor	0.999955476		
Elevation Adjust. Factor	0.9999832962		
Combined Adjust. Factor	0.9999387730		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	25	16.37	53.7
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 ARBT Ref Mon # 3 D 210	ELEVATIONS WERE BY CREW S5112 USING 3 WIRE DIGITAL LEVELS FROM S 326 ON 11/2010 AND CHECKED USING GPS ON D 210 AND 150004.

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 13 29.9106552
Longitude	92 44 1.9850604
Ellipsoid Height (M):	77.990
Geoid Height (M):	-28.451

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 247 AND STATE HIGHWAY 95, NORTH OF MORRILTON, GO NORTH ON HIGHWAY 95 2. 6 MILES TO THE MARK ON THE RIGHT, 22 FEET EAST OF THE CENTERLINE OF THE HIGHWAY, 12.2 FEET WEST OF A FENCE, 63.3 SOUTH OF AN ASPHALT DRIVEWAY AND WEST 12.1 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150008 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150008A	Date Monumented 11/18/2010	Monumented By AHTD	County CONWAY	Route 95	Job Number: 080386, 080387
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas North</td> <td>301</td> </tr> <tr> <td>Horizontal Datum</td> <td>NAD 83 (1997)</td> </tr> <tr> <td>Northing (M)</td> <td>99,753.9951</td> </tr> <tr> <td>Easting (M)</td> <td>333,198.7040</td> </tr> <tr> <td>Elevation (M)*</td> <td>112.505</td> </tr> <tr> <td>Northing (SFT)</td> <td>327,276.2323</td> </tr> <tr> <td>Easting (SFT)</td> <td>1,093,169.4147</td> </tr> <tr> <td>Elevation (SFT)*</td> <td>369.110</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Convergence Angle</td> <td style="width: 10%;">0</td> <td style="width: 10%;">25</td> <td style="width: 30%;">37.3259887</td> </tr> <tr> <td>Scale Factor</td> <td colspan="3">0.999954907</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td colspan="3">0.9999823446</td> </tr> <tr> <td>Combined Adjust. Factor</td> <td colspan="3">0.9999372524</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;">SUPERCEDED CONTROL</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas North	301	Horizontal Datum	NAD 83 (1997)	Northing (M)	99,753.9951	Easting (M)	333,198.7040	Elevation (M)*	112.505	Northing (SFT)	327,276.2323	Easting (SFT)	1,093,169.4147	Elevation (SFT)*	369.110	Convergence Angle	0	25	37.3259887	Scale Factor	0.999954907			Elevation Adjust. Factor	0.9999823446			Combined Adjust. Factor	0.9999372524			Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Vertical Determined By:</td> <td style="width: 50%;">3rd Order - 3 Wire Level</td> </tr> <tr> <td>Elevation Datum:</td> <td>NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td>35 13 48.8956188</td> </tr> <tr> <td>Longitude</td> <td>92 44 1.9114836</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>84.054</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.451</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center; margin: 0;">Location Description</p> <p style="margin: 0;">TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 247 AND STATE HIGHWAY 95, NORTH OF MORRILTON, GO NORTH ON HIGHWAY 95 2.9 MILES TO THE MARK ON THE LEFT, 24.2 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, 6.9 FEET EAST OF A FENCE, 31 FEET SOUTH OF A FIELD DRIVE AND EAST 6.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150008A 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p> </div>	Vertical Determined By:	3rd Order - 3 Wire Level	Elevation Datum:	NAVD 88	Geoid Datum:		Latitude	35 13 48.8956188	Longitude	92 44 1.9114836	Ellipsoid Height (M):	84.054	Geoid Height (M):	-28.451
Zone	Zone Code																																																												
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Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	150008
Geodetic Azimuth	180 10 56
Grid Azimuth	180 36 34

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARBT</p> <p>Ref Mon # 2 ARFY</p> <p>Ref Mon # 3 D 210</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;">Comments</p> <p style="margin: 0;">ELEVATIONS WERE BY CREW S5112 USING 3 WIRE DIGITAL LEVELS FROM S 326 ON 11/2010 AND CHECKED USING GPS ON D 210 AND 150004.</p> </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150009	Date Monumented 10/18/2010	Monumented By AHTD	County CONWAY	Route 213	Job Number: 080386, 080387
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	104,107.3101	
Easting (M)	333,132.8920	
Elevation (M)*	110.848	
Northing (SFT)	341,558.7332	
Easting (SFT)	1,092,953.4965	
Elevation (SFT)*	363.675	

Convergence Angle	0	25	39.5882679
Scale Factor	0.999950937		
Elevation Adjust. Factor	0.9999826046		
Combined Adjust. Factor	0.9999335424		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARFY Ref Mon # 3 D 210	ELEVATIONS WERE BY CREW S5112 USING 3 WIRE DIGITAL LEVELS FROM S 326 ON 11/2010 AND CHECKED USING GPS ON D 210 AND 150004.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150009A	Date Monumented 10/18/2010	Monumented By AHTD	County CONWAY	Route 213	Job Number: 080386, 080387
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	104,217.0771	
Easting (M)	332,608.4550	
Elevation (M)*	124.849	
Northing (SFT)	341,918.8605	
Easting (SFT)	1,091,232.9061	
Elevation (SFT)*	409.609	

Convergence Angle	0	25	51.6817779
Scale Factor	0.999950846		
Elevation Adjust. Factor	0.9999804075		
Combined Adjust. Factor	0.9999312544		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18 INCH RCP	95	121.13	397.4
MK # 2	5X5 R/W MARKER	275	24.38	80.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARFY Ref Mon # 3 D 210	ELEVATIONS WERE BY CREW S5112 USING 3 WIRE DIGITAL LEVELS FROM S 326 ON 11/2010 AND CHECKED USING GPS ON D 210 AND 150004.

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 16 13.5751152
Longitude	92 44 26.5820640
Ellipsoid Height (M):	96.401
Geoid Height (M):	-28.448

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 213 AND STATE HIGHWAY 95, NORTH OF MORRILTON, GO NORTH ON HIGHWAY 213 0.47 MILES TO THE MARK ON THE LEFT, 25.0 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY, 14.9 FEET NORTH OF A FENCE, AND NORTH 14.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150009A 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150010	Date Monumented 10/14/2013	Monumented By AHTD	County CONWAY	Route 92	Job Number: BR2404, 08X344
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD83 (2011)
Northing (M)	116,292.2662 0.0010
Easting (M)	351,898.7731 0.0010
Elevation (M)*	176.768
Northing (SFT)	381,535.5434
Easting (SFT)	1,154,521.2247
Elevation (SFT)*	579.945

Convergence Angle	0 18 29.0297884
Scale Factor	0.999942230
Elevation Adjust. Factor	0.9999722602
Combined Adjust. Factor	0.9999144918

SUPERCEDED CONTROL			
Horizontal Datum	NAD83 (1997)		
Latitude	35	22	49.4419188
Longitude	92	31	45.8791140
Ellipsoid Height:	148.735		
Grid Northing (Meters)	116,292.2635		
Grid Easting (Meters)	351,898.7901		

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHR Ref Mon # 2 ARBT Ref Mon # 3 ARCW	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ELEV. ESTABLISHED BY CONSTRAINING ELEV. ON AHTD GPS # 710006 DURING STATIC ADJUSTMENT TO AHTD GPS #150010A & THEN RAN DIGITAL LEVELS FROM AHTD GPS #150010A BY S5112 FOR JOB FSX005 IN OCT. 13. **Note: AHTD GPS #710006 ELEV. BASED ON 3WR LEVELS BY S5105 IN DEC. 09 FROM 2ND ORDER NGS BM H 210. *** POINT WAS UPDATED TO NAD83 (2011) BY CREW S5102 DURING JOB 08X344. ELEV IS BASED ON STATIC OBS HOLDING THE ARP ELEV AT ARR*** </td> </tr> </table>	Comments	ELEV. ESTABLISHED BY CONSTRAINING ELEV. ON AHTD GPS # 710006 DURING STATIC ADJUSTMENT TO AHTD GPS #150010A & THEN RAN DIGITAL LEVELS FROM AHTD GPS #150010A BY S5112 FOR JOB FSX005 IN OCT. 13. **Note: AHTD GPS #710006 ELEV. BASED ON 3WR LEVELS BY S5105 IN DEC. 09 FROM 2ND ORDER NGS BM H 210. *** POINT WAS UPDATED TO NAD83 (2011) BY CREW S5102 DURING JOB 08X344. ELEV IS BASED ON STATIC OBS HOLDING THE ARP ELEV AT ARR***
Comments			
ELEV. ESTABLISHED BY CONSTRAINING ELEV. ON AHTD GPS # 710006 DURING STATIC ADJUSTMENT TO AHTD GPS #150010A & THEN RAN DIGITAL LEVELS FROM AHTD GPS #150010A BY S5112 FOR JOB FSX005 IN OCT. 13. **Note: AHTD GPS #710006 ELEV. BASED ON 3WR LEVELS BY S5105 IN DEC. 09 FROM 2ND ORDER NGS BM H 210. *** POINT WAS UPDATED TO NAD83 (2011) BY CREW S5102 DURING JOB 08X344. ELEV IS BASED ON STATIC OBS HOLDING THE ARP ELEV AT ARR***			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150010A	Date Monumented 10/14/2013	Monumented By AHTD	County CONWAY	Route 92	Job Number: BR2404, 08X344
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD83 (2011)		
Northing (M)	116,464.4985	0.0010	
Easting (M)	352,363.3084	0.0010	
Elevation (M)*	168.701		
Northing (SFT)	382,100.6088		
Easting (SFT)	1,156,045.2876		
Elevation (SFT)*	553.480		

Convergence Angle	0	18	18.3407346
Scale Factor	0.999942133		
Elevation Adjust. Factor	0.9999735260		
Combined Adjust. Factor	0.9999156605		

SUPERCEDED CONTROL			
Horizontal Datum	NAD83 (1997)		
Latitude	35	22	55.1115444
Longitude	92	31	27.5100816
Ellipsoid Height:	140.672		
Grid Northing (Meters)	116,464.5011		
Grid Easting (Meters)	352,363.3199		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MONUMENT	87	12.19	40.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR	ELEV. ESTABLISHED BY CONSTRAINING ELEV. ON AHTD GPS # 710006 DURING STATIC ADJUSTMENT BY S5112 FOR JOB FSX005 IN OCT. 13. (i.e. no levels involved in establishing this elevation, strictly Static GPS derived). **Note: AHTD GPS #710006 ELEV. BASED ON 3WR LEVELS BY S5105 IN DEC. 09 FROM 2ND ORDER NGS BM H 210. POINT WAS UPDATED TO NAD83 (2011). ELEV IS BASED ON A DIGITAL
Ref Mon # 2 ARBT	
Ref Mon # 3 ARCW	

AZ Mark Station	150010
Geodetic Azimuth	249 21 01.9
Grid Azimuth	249 39 25.6

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150011	Date Monumented 8/18/2014	Monumented By AHTD	County CONWAY	Route 9	Job Number: 080494
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	99,174.3098	0.0020			
Easting (M)	336,938.6629	0.0020			
Elevation (M)*	101.008				
Northing (SFT)	325,374.3814				
Easting (SFT)	1,105,439.5965				
Elevation (SFT)*	331.390				

Convergence Angle	0	24	11.1658283		
Scale Factor	0.999955445				
Elevation Adjust. Factor	0.9999841488				
Combined Adjust. Factor	0.9999395945				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTHEAST CORNER OF OVERCUP UNITE	240	74.80	245.4	AZ Mark Station 150011A
MK # 2	COMBINATION W/GUY	52	19.40	63.6	Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.
Ref Mon # 2 ARBT	
Ref Mon # 3 P777	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150011A	Date Monumented 8/18/2014	Monumented By AHTD	County CONWAY	Route 9	Job Number: 080494
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	99,454.9016 0.0020
Easting (M)	337,564.5507 0.0020
Elevation (M)*	103.165
Northing (SFT)	326,294.9563
Easting (SFT)	1,107,493.0301
Elevation (SFT)*	338.466

Convergence Angle	0 23 56.8083611
Scale Factor	0.999955167
Elevation Adjust. Factor	0.9999838104
Combined Adjust. Factor	0.9999389781

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/ TRANSFORMER	231	156.50	513.5
MK # 2	COMBINATION POLE W/ TRANSFORMER	97	67.40	221.1
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARBT Ref Mon # 3 P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.</td> </tr> </table>	Comments	ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.
Comments			
ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 287, IN SOLGOHACHIA, GO SOUTH ON HIGHWAY 9 FOR 2.3 MILES TO THE MARK ON THE LEFT, 29.6 FEET SOUTHWEST OF THE CENTERLINE OF A DRIVEWAY, AND 30.1 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150011A 2014" ON TOP OF A 4.0 REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12A
Latitude	35 13 40.2116520
Longitude	92 41 9.1708440
Ellipsoid Height (M):	74.663 0.0090
Geoid Height (M):	-28.498

AZ Mark Station	150011
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150012	Date Monumented 8/18/2014	Monumented By AHTD	County CONWAY	Route 9	Job Number: 080494
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	102,836.1396	0.0020			
Easting (M)	338,486.9374	0.0020			
Elevation (M)*	138.168				
Northing (SFT)	337,388.2347				
Easting (SFT)	1,110,519.2271				
Elevation (SFT)*	453.306				

Convergence Angle	0	23	36.1166310
Scale Factor	0.999952014		
Elevation Adjust. Factor	0.9999783174		
Combined Adjust. Factor	0.9999303325		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/ GUY	265	58.00	190.3
MK # 2	POWER POLE W/ LIGHT	16	96.00	315.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.
Ref Mon # 2 ARBT	
Ref Mon # 3 P777	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12A
Latitude	35 15 30.1372200
Longitude	92 40 33.6118800
Ellipsoid Height (M):	109.684 0.0100
Geoid Height (M):	-28.458

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 287, IN SOLGOHACHIA, GO SOUTH ON HIGHWAY 9 FOR 0.05 MILES TO THE MARK ON THE RIGHT, 49.7 FEET WEST OF THE CENTERLINE OF THE HIGHWAY AND WEST 12.2 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150012 2014" ON TOP OF A 4.0 REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150012A	Date Monumented 8/18/2014	Monumented By AHTD	County CONWAY	Route 9	Job Number: 080494
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	102,274.0771 0.0020
Easting (M)	338,466.1909 0.0020
Elevation (M)*	133.556
Northing (SFT)	335,544.2013
Easting (SFT)	1,110,451.1613
Elevation (SFT)*	438.176

Convergence Angle	0 23 36.5053698
Scale Factor	0.999952518
Elevation Adjust. Factor	0.9999790411
Combined Adjust. Factor	0.9999315601

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SERVICE POLE	151	90.30	296.3
MK # 2	TELEPHONE BOX	246	97.00	318.2
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARBT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>P777</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	ARBT	Ref Mon # 3	P777	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.</td> </tr> </table>	Comments	ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.
Ref Mon # 1	ARLR								
Ref Mon # 2	ARBT								
Ref Mon # 3	P777								
Comments									
ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.									

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 287, IN SOLGOHACHIA, GO SOUTH ON HIGHWAY 9 FOR 0.4 MILES TO THE MARK ON THE LEFT, 27.7 FEET EAST SOUTHEAST OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150012A 2014" ON TOP OF A 4.0 REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	150012
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150013	Date Monumented 10/21/2019	Monumented By ARDOT	County CONWAY	Route 247	Job Number: 080615
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	86,251.4387	0.0040			
Easting (M)	307,863.5778	0.0030			
Elevation (M)*					
Northing (SFT)	282,976.5951				
Easting (SFT)	1,010,049.0882				
Elevation (SFT)*					

Convergence Angle	0	35	17.1490102
Scale Factor	0.999970470		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	END OF FENCE	92	1.62	5.3	150013A
MK # 2	PLASTIC COROGATED PIPE	306	8.08	26.5	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS Ref Mon # 2 ARLR Ref Mon # 3 ARR V	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150013A	Date Monumented 10/21/2019	Monumented By ARDOT	County CONWAY	Route 247	Job Number: 080615
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	86,715.6254	0.0040			
Easting (M)	307,849.1827	0.0040			
Elevation (M)*					
Northing (SFT)	284,499.5143				
Easting (SFT)	1,010,001.8602				
Elevation (SFT)*					

Convergence Angle	0	35	17.5892633
Scale Factor	0.999969869		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	FENCE CORNER	263	3.35	11.0	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCS	
Ref Mon # 2 ARLR	
Ref Mon # 3 ARRV	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	35 6 38.5271928
Longitude	93 0 39.1002516
Ellipsoid Height (M):	66.012 0.0120
Geoid Height (M):	-28.946 0.0120

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 247 AND STATE HIGHWAY 154, IN PONTOON, GO SOUTH ON HIGHWAY 247 FOR 0.1 MILES TO THE MARK ON THE RIGHT, WEST OF THE C/L OF THE HIGHWAY 35.8' AND NORTH OF A GRAVEL DRIVEWAY 57'. THE MARK IS A STRANDARD 2 1/2" CAP STAMPED "2019 150013A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 16	Date Monumented 1/22/2001	Monumented By OF BENTONVILLE	County BENTON	Route CR 39	Job Number: 009969
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	232,454.6626		
Easting (M)	197,187.0627		
Elevation (M)*	362.078		
Northing (SFT)	762,645.0055		
Easting (SFT)	646,937.8882		
Elevation (SFT)*	1,187.918		

Convergence Angle	-1	18	56.8175147
Scale Factor	1.000039083		
Elevation Adjust. Factor	0.9999431814		
Combined Adjust. Factor	0.9999822621		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	14	4.85	15.9
MK # 2	SOUTHWEST END CMP	108	12.45	40.8
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="V 26"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="CASSPORT"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="FLINT"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160001	Date Monumented 5/1/1990	Monumented By AHTD	County CRAIGHEAD	Route 49	Job Number: R00094
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	170,729.6679	
Easting (M)	524,557.9030	
Elevation (M)*		
Northing (SFT)	560,135.5854	
Easting (SFT)	1,720,987.0534	
Elevation (SFT)*		

Convergence Angle	0	48	9.2485101
Scale Factor	0.999947850		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TOP OF FENCE BRACE POST	325	3.73	12.2
MK # 2	NBC IN TOP OF FENCE CORNER POST	285	2.43	8.0
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 FIRST Ref Mon # 2 BOWMAN Ref Mon # 3 NETTLE	Old point number 90160001

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160002	Date Monumented 5/1/1990	Monumented By AHTD	County CRAIGHEAD	Route 49	Job Number: R00094
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	170,703.9459	
Easting (M)	525,189.3270	
Elevation (M)*		
Northing (SFT)	560,051.1958	
Easting (SFT)	1,723,058.6503	
Elevation (SFT)*		

Convergence Angle	0	48	23.8847079
Scale Factor	0.999947824		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	90	24.24	79.5
MK # 2	PUNCH POINT IN TOP OF FIRE HYDRANT	100	3.58	11.7
MK # 3	NBC IN POWER POLE	150	13.47	44.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 FIRST Ref Mon # 2 BOWMAN Ref Mon # 3 NETTLE	Old point number 90160002

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 51 50.6167164

Longitude 90 36 49.6424484

Ellipsoid Height (M):

Geoid Height (M): -28.695

Location Description

THE STATION IS 39 FEET WEST AND 39 FEET SOUTH OF A DOUBLE RC BOX ACROSS CO.RD., 2.5 FEET EAST OF A CONCRETE SLAB WITH TELEPHONE JCT. BOX ANCHORED TO IT, 100 FEET SOUTH OF THE CENTERLINE OF HWY. 49 AND 35 FEET SOUTHEAST OF T14N R4E SECTION 1 AND 12 NW OF NE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160004A	Date Monumented 11/4/1993	Monumented By AHTD	County CRAIGHEAD	Route NA	Job Number: 00412,RX0017,001784,10088
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	163,304.4940
Easting (M)	488,648.1610
Elevation (M)*	77.115
Northing (SFT)	535,774.8274
Easting (SFT)	1,603,173.1749
Elevation (SFT)*	253.002

Convergence Angle	0 34 14.6358711
Scale Factor	0.999943089
Elevation Adjust. Factor	0.9999878982
Combined Adjust. Factor	0.9999309879

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	48	4.8043404
Longitude	91	1	9.0871104
Ellipsoid Height:			
Grid Northing (Meters)	163,304.8173		
Grid Easting (Meters)	488,648.1259		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE		29.31	96.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG	3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM M-246 and K-183
Ref Mon # 2 Newspost	
Ref Mon # 3 K 183, 160010	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160005	Date Monumented 1/4/1993	Monumented By AHTD	County CRAIGHEAD	Route NA	Job Number: 100412,RX0017,001784
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	167,576.4040	
Easting (M)	490,388.3690	
Elevation (M)*		
Northing (SFT)	549,790.2521	
Easting (SFT)	1,608,882.5073	
Elevation (SFT)*		

Convergence Angle	0	34	55.9727380
Scale Factor	0.999945841		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	50	22.8403104
Longitude	90	59	58.0484292
Ellipsoid Height:			
Grid Northing (Meters)	167,576.7154		
Grid Easting (Meters)	490,388.3546		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	85	13.10	43.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG	
Ref Mon # 2 Newsport	
Ref Mon # 3 K 183, 160010	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160005A	Date Monumented 11/4/1993	Monumented By AHTD	County CRAIGHEAD	Route NA	Job Number: 100412,RX0017,001784
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	167,572.9300	
Easting (M)	489,866.1000	
Elevation (M)*		
Northing (SFT)	549,778.8545	
Easting (SFT)	1,607,169.0298	
Elevation (SFT)*		

Convergence Angle	0	34	43.8621049
Scale Factor	0.999945842		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	50	22.8991812
Longitude	91	0	18.8608608
Ellipsoid Height:			
Grid Northing (Meters)	167,573.2379		
Grid Easting (Meters)	489,866.0813		

Location Description			
<p>FROM THE JCT. OF HWY. 226 AND HWY. 18 IN THE TOWN OF CASH, GO WEST ON HWY. 226 FOR 4.72 MILES TO CO. RD. NO. 197 ON THE RIGHT, GO RIGHT (NORTH) ON CO. RD. NO. 197 FOR 1.0 MILE TO CO. RD. NO. 189 ON THE RIGHT, GO RIGHT (EAST) ON CO. RD. NO. 189 FOR 0.50 MILES TO A CURVE LEFT, GO LEFT (NORTH) FOR 0.50 MILES TO A CURVE RIGHT, GO RIGHT (EAST) FOR 0.50 MILES TO THE JCT. WITH CO. RD. NO. 187, GO LEFT ON CO. RD. NO. 187 FOR 1.50 MILES TO A CURVE RIGHT AND A FIELD ROAD ON THE LEFT, GO LEFT (EAST) ON THE FIELD ROAD FOR 0.29 MILES TO THE STATION ON THE LEFT. THE STATION IS 7.81 METERS SOUTH OF THE CENTER OF THE FIELD ROAD AT THE BASE OF A LEVEE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "16005A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARPG</p> <p>Ref Mon # 2 Newport</p> <p>Ref Mon # 3 K 183, 160010</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160006	Date Monumented 11/4/1993	Monumented By AHTD	County CRAIGHEAD	Route N/A	Job Number: RX0017,001784
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 172,518.7299		Latitude 35 53 3.2155368
Easting (M) 490,295.4090		Longitude 90 59 59.7518520
Elevation (M)* 76.838		Ellipsoid Height (M):
Northing (SFT) 566,005.1997		Geoid Height (M): -28.582
Easting (SFT) 1,608,577.5210		
Elevation (SFT)* 252.093		

Convergence Angle	0	34	54.9812580
Scale Factor	0.999949600		
Elevation Adjust. Factor	0.9999879418		
Combined Adjust. Factor	0.9999375424		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEDGWICK	
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 WALDENBURG	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160006A	Date Monumented 11/4/1993	Monumented By AHTD	County CRAIGHEAD	Route N/A	Job Number: RX0017,001784
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1986)
Northing (M)	172,530.1179
Easting (M)	489,789.2310
Elevation (M)*	76.741
Northing (SFT)	566,042.5618
Easting (SFT)	1,606,916.8354
Elevation (SFT)*	251.774

Convergence Angle	0	34	43.2406820
Scale Factor	0.999949613		
Elevation Adjust. Factor	0.9999879570		
Combined Adjust. Factor	0.9999375706		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>THE STATION IS LOCATED IN T-14-N R-1-E IN THE NW 1/4 OF THE NE 1/4 OF SECTION 5. FROM THE POST OFFICE IN THE TOWN OF EGYPT, GO NORTH ON HWY. 91 FOR 1.62 KM (1.0 MILES) TO THE CRAIGHEAD & LAWRENCE COUNTY LINE AND CO. RD. NO. 194 ON THE LEFT, GO LEFT (WEST) ON CO. RD. NO. 194 FOR 4.10 KM (3.10 MILES) TO THE JCT. WITH CO. RD. NO. 191 TO THE LEFT AND RIGHT AND A FIELD ROAD STRAIGHT AHEAD, CONTINUE STRAIGHT AHEAD ON THE FIELD ROAD FOR 0.67 KM (0.41 MILES) TO THE STATION IN THE CENTER OF THE FIELD ROAD. THE STATION IS 3.00 METERS SOUTH OF A WITNESS POST AND IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "16006A" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.30 METERS BELOW THE GROUND SURFACE.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 SEDDGWICK</p> <p>Ref Mon # 2 NEWSPORT</p> <p>Ref Mon # 3 WALDENBURG</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160008	Date Monumented 11/8/1993	Monumented By AHTD	County CRAIGHEAD	Route 226	Job Number: 100412,RX0017
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	162,583.3689
Easting (M)	500,040.3050
Elevation (M)*	75.175
Northing (SFT)	533,408.9361
Easting (SFT)	1,640,548.9007
Elevation (SFT)*	246.637

Convergence Angle	0 38 38.4675690
Scale Factor	0.999942598
Elevation Adjust. Factor	0.9999882027
Combined Adjust. Factor	0.9999308014

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35 47 37.4892900		
Longitude	90 53 35.6895708		
Ellipsoid Height:			
Grid Northing (Meters)	162,583.7129		
Grid Easting (Meters)	500,040.2664		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	165	21.55	70.7
MK # 2	NBC IN POWER POLE	19	51.56	169.1
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG	3-Wire Levels were ran by S5110 in job 100412 August 2006 from NGS BM M-246 and K-183
Ref Mon # 2 Newspost	
Ref Mon # 3 K 183, 160010	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 47 37.4781156
Longitude	90 53 35.6881884
Ellipsoid Height (M):	47.485
Geoid Height (M):	-27.651

Location Description
<p>THE STATION IS LOCATED IN T-14-N R-2-E IN THE SE 1/4 OF THE SE 1/4 OF SECTION 32. FROM THE JCT. OF HWY. 226 AND HWY. 18 IN THE TOWN OF CASH, GO EAST ON HWY. 226 FOR 3.96 KM (2.47 MILES) TO CO. RD. NO. 161 AND THE STATION ON THE LEFT. THE STATION IS 12.290 METERS NORTH OF THE CENTERLINE OF HWY. 226, 10.980 METERS WEST OF THE CENTER OF CO. RD. NO. 161 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160008" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>

AZ Mark Station	160008A
Geodetic Azimuth	93 26 22
Grid Azimuth	92 47 44

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160008A	Date Monumented 11/8/1993	Monumented By AHTD	County CRAIGHEAD	Route 226	Job Number: 100412,RX0017
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	162,557.1690	
Easting (M)	500,576.8520	
Elevation (M)*	75.459	
Northing (SFT)	533,322.9786	
Easting (SFT)	1,642,309.2219	
Elevation (SFT)*	247.568	

Convergence Angle	0	38	50.8943089
Scale Factor	0.999942579		
Elevation Adjust. Factor	0.9999881582		
Combined Adjust. Factor	0.9999307378		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	47	36.4423596
Longitude	90	53	14.3347092
Ellipsoid Height:			
Grid Northing (Meters)	162,557.4926		
Grid Easting (Meters)	500,576.7979		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN POWER POLE		252	31.93	104.8
MK # 2	NBC IN POWER POLE		266	29.90	98.1
MK # 3	NBC IN POWER POLE		90	35.80	117.4

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 Newport Ref Mon # 3 K 183, 160010	Comments 3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM M-246 and K-183
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Location Description	
THE STATION IS LOCATED IN T-13-N R-2-E IN THE NE 1/4 OF THE NW 1/4 OF SECTION 4. FROM THE JCT. OF HWY. 226 AND HWY. 18 IN THE TOWN OF CASH, GO EAST ON HWY. 226 FOR 4.57 KM (2.84 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 9.255 METERS WEST OF A FIELD ENTRANCE, 10.385 METERS SOUTH OF THE CENTERLINE OF HWY. 226, 43.423 METERS EAST OF A DRIVEWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "16008A" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.	

AZ Mark Station	160008
Geodetic Azimuth	273 26 35
Grid Azimuth	272 47 44

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160009	Date Monumented 11/8/1993	Monumented By AHTD	County CRAIGHEAD	Route 226	Job Number: 100412,RX0017
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	162,584.6269	
Easting (M)	503,691.4340	
Elevation (M)*	76.823	
Northing (SFT)	533,413.0634	
Easting (SFT)	1,652,527.6464	
Elevation (SFT)*	252.043	

Convergence Angle	0	40	3.0765236
Scale Factor	0.999942574		
Elevation Adjust. Factor	0.9999879441		
Combined Adjust. Factor	0.9999305188		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	47	36.1734288
Longitude	90	51	10.2885192
Ellipsoid Height:			
Grid Northing (Meters)	162,584.9467		
Grid Easting (Meters)	503,691.3865		

Location Description			
<p>THE STATION IS LOCATED IN T-14-N R-2-E IN THE SW 1/4 OF THE SW 1/4 OF SECTION 35. FROM THE JCT. OF HWY. 226 AND HWY. 18 IN THE TOWN OF CASH, GO EAST ON HWY. 226 FOR 7.644 KM (4.75 MILES) TO THE STATION ON THE LEFT. THE STATION IS 13.20 METERS NORTH OF THE CENTERLINE OF HWY. 226, 30 50 METERS EAST OF A FIELD ENTRANCE, 6.0 METERS FROM THE CENTER OF A FIELD ROAD, 6.00 METERS WEST OF A DRAINAGE DITCH AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160009" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN POWER POLE		156		
MK # 2	NBC IN POWER POLE		0		
MK # 3	CENTER OF TELEPHONE BOX		227		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARP Ref Mon # 2 Newport Ref Mon # 3 K 183, 160010	3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM M-246 and K-183 The elev. was found to be 252.1248. In Dec.2010 Digital Levels were ran by crew S5103 in job 100412 Hydraulic Study from M 246.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160009A	Date Monumented 11/8/1993	Monumented By AHTD	County CRAIGHEAD	Route 226	Job Number: 100412,RX0017
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	162,586.9700	
Easting (M)	503,275.0610	
Elevation (M)*	76.987	
Northing (SFT)	533,420.7507	
Easting (SFT)	1,651,161.5960	
Elevation (SFT)*	252.583	

Convergence Angle	0	39	53.4284676
Scale Factor	0.999942579		
Elevation Adjust. Factor	0.9999879183		
Combined Adjust. Factor	0.9999304980		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	47	36.4071912
Longitude	90	51	26.8682508
Ellipsoid Height:			
Grid Northing (Meters)	162,587.3103		
Grid Easting (Meters)	503,275.0273		

Location Reference Marks				
Description			Azimuth	Distance
				Meters Feet
MK # 1	NBC IN POWER POLE		127	44.04 144.5
MK # 2	NBC IN POWER POLE		223	37.20 122.0
MK # 3	NBC IN POWER POLE		355	73.25 240.3

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 Newport Ref Mon # 3 K 183, 160010	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> 3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM M-246 and K-183 The elev was found to be 252.6688. In Dec.2010 Digital Levels were ran by crew S5103 in job 100412 Hydraulic Study from M 246. </td> </tr> </table>	Comments	3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM M-246 and K-183 The elev was found to be 252.6688. In Dec.2010 Digital Levels were ran by crew S5103 in job 100412 Hydraulic Study from M 246.
Comments			
3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM M-246 and K-183 The elev was found to be 252.6688. In Dec.2010 Digital Levels were ran by crew S5103 in job 100412 Hydraulic Study from M 246.			

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 47 36.3961356
Longitude	90 51 26.8670664
Ellipsoid Height (M):	49.327
Geoid Height (M):	-27.648

Location Description
THE STATION IS LOCATED IN T-14-N R-2-E IN THE SW 1/4 OF THE SW 1/4 OF SECTION 35. FROM THE JCT. OF HWY. 226 AND HWY. 18 IN THE TOWN OF CASH, GO EAST ON HWY. 226 FOR 7.22 KM (4.49 MILES) TO THE STATION ON THE LEFT. THE STATION IS 16.162 METERS NORTH OF THE CENTERLINE OF HWY. 226, 12.183 METERS EAST OF THE CENTER OF CO. RD. NO. 155 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "16009A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160010	Date Monumented 9/9/2003	Monumented By AHTD	County CRAIGHEAD	Route 226	Job Number: 00556,RX0017,100412,br161
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	162,637.4830	
Easting (M)	509,781.6680	
Elevation (M)*	85.596	
Northing (SFT)	533,586.4755	
Easting (SFT)	1,672,508.6891	
Elevation (SFT)*	280.827	

Convergence Angle	0	42	24.2205060
Scale Factor	0.999942563		
Elevation Adjust. Factor	0.9999865674		
Combined Adjust. Factor	0.9999291311		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	47	35.5181316
Longitude	90	47	7.7307396
Ellipsoid Height:			
Grid Northing (Meters)	162,637.7908		
Grid Easting (Meters)	509,781.6282		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER Ref Mon # 2 MEM2 Ref Mon # 3 PAR1	3wire levels ran by S5111 from NGS K183 under Job # 100611

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160010A	Date Monumented 9/9/2003	Monumented By AHTD	County CRAIGHEAD	Route 226	Job Number: 100556,RX0017,100412
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	163,209.3699
Easting (M)	509,810.2220
Elevation (M)*	91.425
Northing (SFT)	535,462.7411
Easting (SFT)	1,672,602.3700
Elevation (SFT)*	299.950

Convergence Angle	0	42	25.0457104
Scale Factor	0.999942894		
Elevation Adjust. Factor	0.9999856526		
Combined Adjust. Factor	0.9999285475		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	47	54.0612816
Longitude	90	47	6.3128292
Ellipsoid Height:			
Grid Northing (Meters)	163,209.6703		
Grid Easting (Meters)	509,810.1769		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER Ref Mon # 2 MEM2 Ref Mon # 3 PAR1	3wire levels ran by S5111 from NGS K183 under Job # 100611

Vertical Determined By: LEVEL - Unkown Quality	
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 47 54.0515184
Longitude	90 47 6.3111804
Ellipsoid Height (M):	63.636
Geoid Height (M):	-27.643

Location Description
THE STATION IS LOCATED IN T-14-N R-3-E IN THE NW 1/4 OF THE SW 1/4 OF SECTION 33. FROM THE JCT. OF HWY. 226 AND HWY. 63 IN WEST JONESBORO, GO WEST ON HWY. 226 FOR 6.55 KM (4.07 MILES) TO THE STATION ON THE LEFT. THE STATION IS 10.50 METERS EAST OF THE CENTERLINE OF HWY. 226, 41.50 METERS SOUTH OF A FIELD ENTRANCE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "16010A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160011	Date Monumented 11/8/1993	Monumented By AHTD	County CRAIGHEAD	Route 49	Job Number: 100556,RX0017
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 160,992.1609		Latitude 35 46 40.9762128
Easting (M) 512,617.6410		Longitude 90 45 15.6219588
Elevation (M)* 81.830		Ellipsoid Height (M):
Northing (SFT) 528,188.4479		Geoid Height (M): -28.566
Easting (SFT) 1,681,813.0438		
Elevation (SFT)* 268.471		

Convergence Angle	0	43	29.4556720
Scale Factor	0.999941636		
Elevation Adjust. Factor	0.9999871584		
Combined Adjust. Factor	0.9999287951		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN POWER POLE	223	45.41	149.0	AZ Mark Station 16011A
MK # 2	NBC IN POWER POLE	290	34.77	114.1	Geodetic Azimuth 267 41 57.24703
MK # 3	PUNCH POINT IN TOP OF FIRE HYDRANT	328	36.02	118.2	Grid Azimuth 266 58 27.76089

Area Reference Monuments (used for Processing) Ref Mon # 1 SEDGWICK Ref Mon # 2 NEWSPORT Ref Mon # 3 WALDENBURG	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160011A	Date Monumented 10/19/2004	Monumented By AHTD	County CRAIGHEAD	Route 49	Job Number: 100611,100556,RX0017
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	160,962.4470
Easting (M)	512,060.7330
Elevation (M)*	82.202
Northing (SFT)	528,090.9615
Easting (SFT)	1,679,985.9215
Elevation (SFT)*	269.692

Convergence Angle	0 43 16.5442937
Scale Factor	0.999941624
Elevation Adjust. Factor	0.9999870999
Combined Adjust. Factor	0.9999287247

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	46	40.2491208
Longitude	90	45	37.8122292
Ellipsoid Height:			
Grid Northing (Meters)	160,962.7218		
Grid Easting (Meters)	512,060.6812		

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC POWER POLE	270	18.79	61.7		
MK # 2	NBC POWER POLE	90	29.27	96.0		
MK # 3	NBC POWER POLE	105	29.75	97.6		

Area Reference Monuments (used for Processing) Ref Mon # 1 BUTLER Ref Mon # 2 MEM2 Ref Mon # 3 BLMM	Comments 3wire levels ran by S5111 from NGS K183 under Job # 100611
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160012	Date Monumented 9/9/2003	Monumented By ARDOT	County CRAIGHEAD	Route 49	Job Number: 100959
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	164,353.1798 0.0013
Easting (M)	515,525.7930 0.0015
Elevation (M)*	

Northing (SFT)	539,215.3907	
Easting (SFT)	1,691,354.2059	
Elevation (SFT)*		

Convergence Angle	0	44	37.8437874
Scale Factor	0.999943536		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
	Description	Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

AZ Mark Station	160012A RESET
Geodetic Azimuth	324 08 12
Grid Azimuth	323 23 35

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	ELEVATION (387.7551 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .
Ref Mon # 2 ARPG	
Ref Mon # 3 AROC	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
60012(OLD DATA)	9/9/2003	AHTD	CRAIGHEAD	49	56,RX0017,100417,100727,10

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	164,353.1809	
Easting (M)	515,525.7630	
Elevation (M)*	118.172	
Northing (SFT)	539,215.3943	
Easting (SFT)	1,691,354.1074	
Elevation (SFT)*	387.703	

Convergence Angle	0	44	37.8430919
Scale Factor	0.999943536		
Elevation Adjust. Factor	0.9999814553		
Combined Adjust. Factor	0.9999249924		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	48	28.8233784
Longitude	90	43	18.0990192
Ellipsoid Height:	89.557		
Grid Northing (Meters)	164,353.4617		
Grid Easting (Meters)	515,525.7195		

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>BUTLER</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MEM2</td> </tr> <tr> <td>Ref Mon # 3</td> <td>PAR1</td> </tr> </table>	Ref Mon # 1	BUTLER	Ref Mon # 2	MEM2	Ref Mon # 3	PAR1	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3 WIRE UNDER 100589 BY S5103 FROM NGS A 242</td> </tr> </table>	Comments	ELEVATION BY 3 WIRE UNDER 100589 BY S5103 FROM NGS A 242
Ref Mon # 1	BUTLER								
Ref Mon # 2	MEM2								
Ref Mon # 3	PAR1								
Comments									
ELEVATION BY 3 WIRE UNDER 100589 BY S5103 FROM NGS A 242									

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 48 28.8142488
Longitude	90 43 18.0974316
Ellipsoid Height (M):	90.380
Geoid Height (M):	-27.663

Location Description
THE STATION IS NEAR THE JCT. OF HWY. 63 AND THE HWY. 49 OVERPASS IN WEST JONESBORO. THE STATION IS 131.240 METERS SOUTH OF BRIDGE NO. 4860 OVER HWY. 63 ON AN ELEVATED MEDIAN, 32.915 METERS WEST OF THE CENTERLINE OF HWY. 49, 20.286 METERS SOUTH OF THE HWY. 63 EAST EXIT RAMP ON HWY. 49, 78.10 METERS NORTH OF THE SERVICE ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160012" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160012A RESET	Date Monumented 9/9/2003	Monumented By ARDOT	County CRAIGHEAD	Route 63	Job Number: 100959
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	164,752.9422 0.0013
Easting (M)	515,228.8281 0.0016
Elevation (M)*	

Northing (SFT)	540,526.9445		
Easting (SFT)	1,690,379.9135		
Elevation (SFT)*			

Convergence Angle	0	44	31.0810150
Scale Factor	0.999943785		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

FROM THE JUNCTION OF STATE HIGHWAY 63 AND THE OVERPASS FOR STATE HIGHWAY 49, IN JONESBORO, GO NORTH ON HIGHWAY 63 0.30 MILES TO THE STATION MARK IN THE MEDIAN, SOUTHWEST 9.10 METERS FROM THE CENTERLINE OF OF THE SOUTH BOUND LANE, NORTHEAST 10.20 METERS OF THE NORTH BOUND LANE AND SOUTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160012A RESET 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 LIGHT POLE	127	13.60	44.6	AZ Mark Station 160012
MK # 2				Geodetic Azimuth 144 08 06
MK # 3				Grid Azimuth 143 23 35

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARJB</p> <p>Ref Mon # 2 ARPG</p> <p>Ref Mon # 3 AROC</p>	<p style="text-align: center; margin: 0;">Comments</p> <p>ELEVATION (389.2151 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ESET RESET (OI	9/9/2003	AHTD	CRAIGHEAD	63	100589,100556

Zone	Zone Code	Vertical Determined By:
Arkansas North	301	LEVEL - Unkown Quality
Horizontal Datum	NAD 83 (1997)	
Northing (M)	164,752.9429	
Easting (M)	515,228.7970	
Elevation (M)*	118.614	
Northing (SFT)	540,526.9468	
Easting (SFT)	1,690,379.8115	
Elevation (SFT)*	389.154	

Convergence Angle	0	44	31.0802944
Scale Factor	0.999943785		
Elevation Adjust. Factor	0.9999813859		
Combined Adjust. Factor	0.9999251719		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	LIGHT POLE	127	13.60	44.6	160012
MK # 2					144 08 06
MK # 3					143 23 35

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEVATION BY 3 WIRE UNDER 100589 BY S5103 FROM NGS A 242
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160013	Date Monumented 6/26/1995	Monumented By ARDOT	County CRAIGHEAD	Route N/A	Job Number: 100959
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	163,690.2766 0.0013
Easting (M)	524,592.2307 0.0016
Elevation (M)*	
Northing (SFT)	537,040.5158
Easting (SFT)	1,721,099.6769
Elevation (SFT)*	

Convergence Angle	0 48 7.7587773
Scale Factor	0.999943063
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEATHER STATION TOWER	133	9.90	32.5
MK # 2	SOUTHWEST CORNER OF CONCRETE SLAB	23	6.80	22.3
MK # 3	SOUTHEAST CORNER OF OFFICE BUILDING	222	28.00	91.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB Ref Mon # 2 ARPG Ref Mon # 3 AROC	ELEVATION (236.3414 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
60013(OLD DATA)	6/26/1995	AHTD	CRAIGHEAD	N/A	DIST10,100664,100657

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)
Northing (M)	163,690.2757 0.0020
Easting (M)	524,592.2275 0.0020
Elevation (M)*	72.019

Northing (SFT)	537,040.5129
Easting (SFT)	1,721,099.6664
Elevation (SFT)*	236.282

Convergence Angle	0 48 7.7587019
Scale Factor	0.999943063
Elevation Adjust. Factor	0.9999886980
Combined Adjust. Factor	0.9999317617

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)
Latitude	35 48 3.3475536
Longitude	90 37 17.3590428
Ellipsoid Height:	43.305
Grid Northing (Meters)	163,690.5719
Grid Easting (Meters)	524,592.1260

Location Description

 THE STATION IS LOCATED AT THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DISTRICT TEN RESIDENT ENGINEER OFFICE IN JONESBORO. THE STATION IS 31.0 METERS EAST OF THE MAIN ENTRANCE GATE IN THE REAR OF THE PARKING AREA CLOSE TO A WEATHER STATION AND 9.30 METERS WEST OF A WITNESS POST SET IN A CHAIN LINK FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160013" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH ENCASED IN CONCRETE AND IS ABOUT 0.10 METERS BELOW THE GRAVEL SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WEATHER STATION TOWER	133	9.90	32.5
MK # 2	SOUTHWEST CORNER OF CONCRETE SLAB	23	6.80	22.3
MK # 3	SOUTHEAST CORNER OF OFFICE BUILDING	222	28.00	91.9

AZ Mark Station	160013A
Geodetic Azimuth	273 56 33.1947
Grid Azimuth	273 08 25.42095

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT (160012 AHTD GPS) Ref Mon # 2 ARPG (WALDENBURG 1954) Ref Mon # 3 ARWY	<div style="border: 1px solid black; padding: 5px;"> Comments PREVIOUS ELEV. 71.937m (NO NOTES ON WHAT PREVIOUS ELEV. WAS BASED ON.) *****NEW ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM'S L 332 & M 332 BY S5112 IN JULY/AUG. 2017 FOR JOB #100657. ELEVATION FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT. </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160013A	Date Monumented 6/26/1995	Monumented By ARDOT	County CRAIGHEAD	Route 18S	Job Number: 100959
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	163,705.8213	0.0013			
Easting (M)	524,308.8084	0.0015			
Elevation (M)*					
Northing (SFT)	537,091.5154				
Easting (SFT)	1,720,169.8156				
Elevation (SFT)*					

Convergence Angle	0	48	1.1955927		
Scale Factor	0.999943074				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	BENCH MARK CAP SET IN WINGWALL	13	2.30	7.5	AZ Mark Station 160013
MK # 2	FIFTH GUARDRAIL POST FROM THE END OF BRIDGE	200	1.90	6.2	Geodetic Azimuth 93 56 26.59664
MK # 3	NONE				Grid Azimuth 93 08 25.42095

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	ELEVATION (259.7403 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .
Ref Mon # 2 ARPG	
Ref Mon # 3 AROC	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
0013A(OLD DAT	6/26/1995	AHTD	CRAIGHEAD	18S	DIST10,100664,100657

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	163,705.8230	0.0020
Easting (M)	524,308.8094	0.0020
Elevation (M)*	79.160	

Northing (SFT)	537,091.5210	
Easting (SFT)	1,720,169.8188	
Elevation (SFT)*	259.710	

Convergence Angle	0	48	1.1956178
Scale Factor	0.999943074		
Elevation Adjust. Factor	0.9999875774		
Combined Adjust. Factor	0.9999306521		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	35	48	3.9807000
Longitude	90	37	28.6383684
Ellipsoid Height:	50.463		
Grid Northing (Meters)	163,706.1230		
Grid Easting (Meters)	524,308.6930		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	BENCH MARK CAP SET IN WINGWALL	13	2.30	7.5
MK # 2	FIFTH GUARDRAIL POST FROM THE END OF BRIDGE	200	1.90	6.2
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT (160012 AHTD GPS) Ref Mon # 2 ARPG (WALDENBURG 1954) Ref Mon # 3 ARWY	<div style="border: 1px solid black; padding: 5px;"> Comments PREVIOUS ELEV. 79.094m (NO NOTES ON WHAT PREVIOUS ELEV. WAS BASED ON.) *****NEW ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM'S L 332 & M 332 BY S5112 IN JULY/AUG. 2017 FOR JOB #100657. ELEVATION FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT. </div>
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Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	35 48 3.9709152
Longitude	90 37 28.6338972
Ellipsoid Height (M):	51.301
Geoid Height (M):	-27.859

Location Description
THE STATION IS LOCATED ON THE SOUTHEAST CORNER OF THE HWY. 18 SPUR BRIDGE (BRIDGE NO. 6173) OVER HWY. 63 BYPASS ON THE SOUTH SIDE OF JONESBORO JUST ACROSS HWY. 63 FROM THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT RESIDENT ENGINEER OFFICE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160013A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH ENCASED IN CONCRETE AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160014	Date Monumented 6/6/1996	Monumented By AHTD	County CRAIGHEAD	Route 63	Job Number: 100293, 100869
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	180,579.4916	0.0020			
Easting (M)	505,637.2866	0.0020			
Elevation (M)*	77.255				
Northing (SFT)	592,451.2154				
Easting (SFT)	1,658,911.6645				
Elevation (SFT)*	253.461				

Convergence Angle	0	40	53.1275851		
Scale Factor	0.999956853				
Elevation Adjust. Factor	0.9999878763				
Combined Adjust. Factor	0.9999447298				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (1986)				
Latitude	35	57	19.2633876		
Longitude	90	49	44.2749288		
Ellipsoid Height:	48.542				
Grid Northing (Meters)	180,579.7729				
Grid Easting (Meters)	505,637.2470				

Location Description					
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 230 WEST IN THE SMALL TOWN OF BONO JUST NORTH OF JONESBORO, GO NORTHWESTERLY ON HWY-63 FOR 5.79 KM. (3.60 MI.) TO THE STATION ON THE RIGHT IN AN OPEN AREA BETWEEN THE HIGHWAY AND THE RAILROAD TRACK. 19.83 METERS NORTHEAST OF THE CENTER OF HWY-63, 12.72 METERS SOUTHWEST OF THE SOUTHWEST RAIL OF A RAILROAD TRACK AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160014 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	POWER POLE	349	34.77	114.1	
MK # 2	POWER POLE	79	29.35	96.3	
MK # 3	NONE				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEDGWICK NW BASE Ref Mon # 2 PARAPORT Ref Mon # 3 160012	ELEVATION BY 3-WIRE USING USC&GS BENCH MARK "A 3 1928" ELEVATION = 76.733 METERS. Position updated by crew S5101 during 09/2016 for job 100869

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160014A	Date Monumented 6/6/1996	Monumented By AHTD	County CRAIGHEAD	Route 63	Job Number: 100293, 100869
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	180,824.5662	0.0020			
Easting (M)	505,342.4723	0.0030			
Elevation (M)*	77.243				
Northing (SFT)	593,255.2643				
Easting (SFT)	1,657,944.4279				
Elevation (SFT)*	253.421				

Convergence Angle	0	40	46.3494933		
Scale Factor	0.999957107				
Elevation Adjust. Factor	0.9999878782				
Combined Adjust. Factor	0.9999449857				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (1986)				
Latitude	35	57	27.3282156		
Longitude	90	49	55.9233804		
Ellipsoid Height:	48.529				
Grid Northing (Meters)	180,824.8500				
Grid Easting (Meters)	505,342.4270				

Location Description					
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 230 WEST IN THE SMALL TOWN OF BONO JUST NORTH OF JONESBORO, GO NORTHWESTERLY ON HWY-63 FOR 6.20 KM. (3.85 MI.) TO THE STATION ON THE RIGHT IN AN OPEN AREA BETWEEN THE HIGHWAY AND THE RAILROAD TRACK. 18.70 METERS NORTHEAST OF THE CENTER OF HWY-63, 13.79 METERS SOUTHWEST OF THE SOUTHWEST RAIL OF THE TRACK AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160014A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	POWER POLE	2		29.21	95.8
MK # 2	0.60 METER OAK	28		30.21	99.1
MK # 3	NONE				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 SEDGWICK NW BASE</p> <p>Ref Mon # 2 PARAPORT</p> <p>Ref Mon # 3 160012</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BY 3-WIRE USING USC&GS BENCH MARK "A 3 1928" ELEVATION = 76.733 METERS. Position updated by crew S5101 during 09/2016 for job 100869</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160015A	Date Monumented 1/27/1998	Monumented By AHTD	County CRAIGHEAD	Route 63B	Job Number: 100417, 100882
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	169,440.5983	0.0020			
Easting (M)	520,533.1077	0.0020			
Elevation (M)*	94.220	0.0008			
Northing (SFT)	555,906.3629				
Easting (SFT)	1,707,782.3708				
Elevation (SFT)*	309.119				

Convergence Angle	0	46	35.4956470
Scale Factor	0.999946923		
Elevation Adjust. Factor	0.9999852141		
Combined Adjust. Factor	0.9999321379		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	51	11.7159444
Longitude	90	39	55.9122156
Ellipsoid Height:	66.480		
Grid Northing (Meters)	169,440.5919		
Grid Easting (Meters)	520,533.0580		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W SIGN	329	1.37	4.5
MK # 2	LIGHT POLE	71	45.67	149.8
MK # 3	LIGHT POLE=TBM 23	222	27.55	90.4

Area Reference Monuments (used for Processing) Ref Mon # 1 NEWSPORT Ref Mon # 2 P 315 Ref Mon # 3 AHTD PAR1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Three wire levels done by crew S5113 in July 2016 in job 10882.</td> </tr> </table>	Comments	Three wire levels done by crew S5113 in July 2016 in job 10882.
Comments			
Three wire levels done by crew S5113 in July 2016 in job 10882.			

Vertical Determined By:	3rd Order - 3 Wire Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	35 51 11.7161316
Longitude	90 39 55.9102320
Ellipsoid Height (M):	66.381
Geoid Height (M):	-27.860

Location Description
THE STATION IS LOCATED ON THE NORTHEAST SIDE OF JONESBORO AT THE JUNCTION OF U.S. HIGHWAY 63B (JOHNSON AVENUE), U.S. HIGHWAY 49 AND STATE HIGHWAY 1. THE STATION IS 19.362 METERS NORTH-NORTHWEST OF THE CENTER OF U.S. 63B WEST BOUND LANE AND 1.250 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160015A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160017	Date Monumented 4/27/1999	Monumented By AHTD	County CRAIGHEAD	Route 1	Job Number: 53,100208, 100950,100833,10
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	156,968.8974 0.0010
Easting (M)	518,206.1256 0.0010
Elevation (M)*	76.612 0.0023
Northing (SFT)	514,988.7909
Easting (SFT)	1,700,147.9304
Elevation (SFT)*	251.352

Convergence Angle	0 45 37.6939657
Scale Factor	0.999939671
Elevation Adjust. Factor	0.9999879772
Combined Adjust. Factor	0.9999276489

SUPERCEDED CONTROL			
Horizontal Datum	NAD83 (1997)		
Latitude	35 44	28.0911768	
Longitude	90 41	35.2448304	
Ellipsoid Height:	48.872		
Grid Northing (Meters)	156,968.8899		
Grid Easting (Meters)	518,206.0810		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	5	15.15	49.7
MK # 2	SOUTH END OF A HEADWALL	30	23.51	77.1
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 NEWSPORT Ref Mon # 2 AHTD PAR 1 Ref Mon # 3 MEM 2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation updated by crew S5101 in October 2016 during job 100950. Based on NGS monument C 76.</td> </tr> </table>	Comments	Elevation updated by crew S5101 in October 2016 during job 100950. Based on NGS monument C 76.
Comments			
Elevation updated by crew S5101 in October 2016 during job 100950. Based on NGS monument C 76.			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 63, LOCATED ON THE SOUTH CENTRAL SIDE OF JONESBORO, GO SOUTH ON STATE HIGHWAY 1 FOR 7.64 KM (4.75 MI) TO THE STATION ON THE RIGHT. THE STATION IS 24.18 METERS WEST OF THE CENTER OF STATE HIGHWAY 1, 9.00 METERS SOUTH OF THE CENTER OF A GRAVEL FEILD ENTRANCE AND 0.50 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160017 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	160017A
Geodetic Azimuth	180 28 17.05633
Grid Azimuth	179 42 39.36327

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160017A	Date Monumented 4/27/1999	Monumented By AHTD	County CRAIGHEAD	Route 1	Job Number: 001853,100208,101193
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	156,580.3320	0.0010			
Easting (M)	518,208.0636	0.0010			
Elevation (M)*	76.490				
Northing (SFT)	513,713.9726				
Easting (SFT)	1,700,154.2887				
Elevation (SFT)*	250.951				

Convergence Angle	0	45	37.6194104		
Scale Factor	0.999939506				
Elevation Adjust. Factor	0.9999879964				
Combined Adjust. Factor	0.9999275031				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 63, LOCATED ON THE SOUTH CENTAL SIDE OF JONESBORO, GO SOUTH ON STATE HIGHWAY 1 FOR 8.05 KM (5.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 24.90 METERS WEST OF THE CENTER OF STATE HIGHWAY 1, 10.40 METERS NORTH OF THE CENTER OF A GRAVEL FIELD ENTRANCE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160017A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	SOUTH END HEADWALL	80		12.06	39.6
MK # 2	POWER POLE	12		8.47	27.8
MK # 3	NONE				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEWSPORT	ELEV. BASED ON DIGITAL LEVELS FROM GPS 160017 AND TBM 904 FROM JOB 100979 DURING JOB 101193 BY CREW S5101 IN DEC 2024.
Ref Mon # 2 AHTD PAR 1	
Ref Mon # 3 MEM 2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160018	Date Monumented 4/27/1999	Monumented By AHTD	County CRAIGHEAD	Route 1	Job Number: 001853,100208,100979
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	162,512.6919	
Easting (M)	520,218.9120	
Elevation (M)*	77.941	
Northing (SFT)	533,177.0567	
Easting (SFT)	1,706,751.5471	
Elevation (SFT)*	255.713	

Convergence Angle	0	46	26.0393167
Scale Factor	0.999942415		
Elevation Adjust. Factor	0.9999877686		
Combined Adjust. Factor	0.9999301843		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	STEELPIPE END POST	222	2.60	8.5	
MK # 2	STEELPIPE IN LINE POST	312	2.20	7.2	
MK # 3	NORTH END OF CONCRETE HEADWAL	125	15.70	51.5	

Area Reference Monuments (used for Processing) Ref Mon # 1 NEWSPORT Ref Mon # 2 AHTD PAR 1 Ref Mon # 3 MEM 2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation updated July 2019 by rewS5101 during job 100979. Levels ran from bm K330.</td> </tr> </table>	Comments	Elevation updated July 2019 by rewS5101 during job 100979. Levels ran from bm K330.
Comments			
Elevation updated July 2019 by rewS5101 during job 100979. Levels ran from bm K330.			

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 63, LOCATED ON THE SOUTH CENTRAL SIDE OF JONESBORO, GO SOUTH ON STATE HIGHWAY 1 FOR 1.77 KM (1.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 40.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 26.60 METERS WEST OF THE CENTER OF STATE HIGHWAY 1 AND 1.60 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160018 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 47 27.0836232
Longitude	90 40 12.1610388
Ellipsoid Height (M):	50.257
Geoid Height (M):	-27.688

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160019	Date Monumented 4/19/2000	Monumented By AHTD	County CRAIGHEAD	Route 141	Job Number: 100126,100433
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 177,142.4596		Latitude 35 55 23.3529348
Easting (M) 516,464.9979		Longitude 90 42 34.0108200
Elevation (M)* 100.371		Ellipsoid Height (M): 72.720
Northing (SFT) 581,174.8862		Geoid Height (M): -27.782
Easting (SFT) 1,694,435.5806		
Elevation (SFT)* 329.299		

Convergence Angle 0 45 3.4970527	Location Description
Scale Factor 0.999953379	<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 141 AND STATE HIGHWAY 168 WEST, LOCATED ABOUT 17.7 KM (11.0 MI) NORTH OF JONESBORO, GO SOUTH ON STATE HIGHWAY 141 FOR 8.00 KM (4.97 MI) TO THE STATION ON THE RIGHT. THE STATION IS 6.85 METERS NORTH OF THE CENTER OF COUNTY ROAD 324, 6.60 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 141 AND 1.80 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160019 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 704.237 METERS.</p>
Elevation Adjust. Factor 0.9999842488	
Combined Adjust. Factor 0.9999376286	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station 160019A
MK # 2	NONE				Geodetic Azimuth 92 03 46.540478
MK # 3	NONE				Grid Azimuth 91 18 43.110791

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 AHTD PAR1</p> <p>Ref Mon # 2 NEWSPORT</p> <p>Ref Mon # 3 P 315</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BY 3WIRE FROM 160019A</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160019A	Date Monumented 4/19/2000	Monumented By AHTD	County CRAIGHEAD	Route 141	Job Number: 100126,100433
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 177,126.3362		Latitude 35 55 22.5295428
Easting (M) 517,169.0072		Longitude 90 42 5.9384052
Elevation (M)* 98.062		Ellipsoid Height (M): 70.401
		Geoid Height (M): -27.786

Northing (SFT) 581,121.9880		
Easting (SFT) 1,696,745.3178		
Elevation (SFT)* 321.725		

Convergence Angle 0 45 19.8323664		
Scale Factor 0.999953355		
Elevation Adjust. Factor 0.9999846111		
Combined Adjust. Factor 0.9999379668		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 141 AND STATE HIGHWAY 168 WEST, LOCATED ABOUT 17.7 KM (11.0 MI) NORTH OF JONESBORO, GO SOUTH ON STATE HIGHWAY 141 FOR 8.69 KM (5.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.00 METERS NORTH OF THE CENTER OF STATE HIGHWAY 141, 8.25 METERS SOUTH OF THE CENTER OF COUNTY ROAD 773 AND 5.08 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160019A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 704.237 METERS.

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE JUNCTION BOX	5	17.80	58.4	AZ Mark Station 160019
MK # 2	FIRE HYDRANT	45	27.00	88.6	Geodetic Azimuth 272 04 03.01051
MK # 3	NONE				Grid Azimuth 271 18 43.11079

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 AHTD PAR1</p> <p>Ref Mon # 2 NEWSPORT</p> <p>Ref Mon # 3 P 315</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BY CONSULTANT FOR CEL.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160020	Date Monumented 6/10/2002	Monumented By AHTD	County CRAIGHEAD	Route 158	Job Number: 100306
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	166,171.8529
Easting (M)	537,049.6930
Elevation (M)*	
Northing (SFT)	545,182.1541
Easting (SFT)	1,761,970.5345
Elevation (SFT)*	

Convergence Angle	0	52	57.3361920
Scale Factor	0.999944491		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END RIENFORCED CONCRETE PIPE	110	2.70	8.9
MK # 2	SOUTH END REINFORCED CONCRETE PIPE	159	7.45	24.4
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD PAR 1 Ref Mon # 2 MANIPORT Ref Mon # 3 VILLPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 49 17.9070276

Longitude 90 28 59.7130896

Ellipsoid Height (M): 41.329

Geoid Height (M): -27.871

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 158 LOCATED ABOUT 10 MILES EAST OF JONESBORO, GO SOUTH ON STATE HIGH 158 0.07 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.85 METERS WEST OF THE CENTER LINE OF STATE HIGHWAY 158, 4.20 METERS NORTH OF CENTER OF FIELD ENTRANCE, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "160020 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160021	Date Monumented 6/10/2002	Monumented By AHTD	County CRAIGHEAD	Route 18	Job Number: 100306
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 167,898.7619		Latitude 35 50 10.7001384
Easting (M) 543,372.1590		Longitude 90 24 46.7493624
Elevation (M)* 70.478		Ellipsoid Height (M): 42.531
		Geoid Height (M): -27.922

Northing (SFT) 550,847.8547		
Easting (SFT) 1,782,713.4917		
Elevation (SFT)* 231.227		

Convergence Angle 0 55 24.5355643		
Scale Factor 0.999945581		
Elevation Adjust. Factor 0.9999889398		
Combined Adjust. Factor 0.9999345214		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 139 IN THE CITY OF MONETTE, GO WEST ON STATE HIGHWAY 18 7.22 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7.20 METERS NORTH OF THE CENTERLINE OF STATE HIGHWAY 18, 6.60 METERS EAST OF THE END OF THE BRIDGE, AND 0.63 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 MM CAP STAMPED "160020 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK TOP OF METAL GUARDRAIL POST	214	3.79	12.4
MK # 2	PUNCH MARK TOP OF METAL GUARDRAIL POST	180	1.30	4.3
MK # 3	PUNCH MARK TOP OF METAL GUARDRAIL POST	63	3.03	9.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD PAR 1	Elevation based on levels by consultant for Job# 100567
Ref Mon # 2 MANIPORT	
Ref Mon # 3 VILLPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160021A	Date Monumented 6/11/2002	Monumented By AHTD	County CRAIGHEAD	Route 18	Job Number: 100306
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 168,360.1569		Latitude 35 50 25.3511988
Easting (M) 543,978.7450		Longitude 90 24 22.2840864
Elevation (M)* 69.094		Ellipsoid Height (M): 41.142
Northing (SFT) 552,361.6148		Geoid Height (M): -27.930
Easting (SFT) 1,784,703.5992		
Elevation (SFT)* 226.686		

Convergence Angle	0	55	38.7718871
Scale Factor	0.999945895		
Elevation Adjust. Factor	0.9999891570		
Combined Adjust. Factor	0.9999350526		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	61	4.65	15.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD PAR 1 Ref Mon # 2 VILLPORT Ref Mon # 3 MANIPORT	Elevation based on levels by consultant for Job# 100567

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160028A	Date Monumented 5/30/2006	Monumented By AHTD	County Craighead	Route NA	Job Number: 100412
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	162,413.6979	
Easting (M)	493,884.8180	
Elevation (M)*	74.215	
Northing (SFT)	532,852.2739	
Easting (SFT)	1,620,353.7737	
Elevation (SFT)*	243.487	

Convergence Angle	0	36	15.7815479
Scale Factor	0.999942539		
Elevation Adjust. Factor	0.9999883534		
Combined Adjust. Factor	0.9999308931		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach the station from the junction of highways 226 and 18 in Cash, go west on hwy-226 for 0.95 miles to county road 264 on the left. Turn left on CR 264 and go 0.45 miles to the station on the left. 27 feet south of the center of CR264 and 11.7 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "160028A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone riser	343	2.90	9.5
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARPG</p> <p>Ref Mon # 2 Newport</p> <p>Ref Mon # 3 K 183, 160010</p>	<p style="text-align: center;">Comments</p> <p>3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM K-183 and M-246</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160029	Date Monumented 6/5/2006	Monumented By AHTD	County Craighead	Route 18	Job Number: 100412
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	161,009.1879	
Easting (M)	495,059.7660	
Elevation (M)*		
Northing (SFT)	528,244.3106	
Easting (SFT)	1,624,208.5823	
Elevation (SFT)*		

Convergence Angle	0	36	42.6613444
Scale Factor	0.999941755		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARPG
Ref Mon # 2	Newsport
Ref Mon # 3	K 183, 160010

Comments

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 46 48.1741140
Longitude	90 56 54.7024488
Ellipsoid Height (M):	47.843
Geoid Height (M):	-27.633

Location Description
<p>To reach the station from the junction of highways 226 and 18 in Cash, go south on hwy-18 for 1.2 miles to the station on the right in the southwest corner of the junction of hwy-18 and county road 246. 43.0 feet west of the center of hwy-18, 26.3 feet south of the center of CR 246 and 1.6 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "160029 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160030	Date Monumented 6/8/2006	Monumented By AHTD	County Craighead	Route 226	Job Number: 100412
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	162,741.3590	
Easting (M)	488,863.1250	
Elevation (M)*	74.750	
Northing (SFT)	533,927.2753	
Easting (SFT)	1,603,878.4359	
Elevation (SFT)*	245.244	

Convergence Angle	0	34	19.4875342
Scale Factor	0.999942757		
Elevation Adjust. Factor	0.9999882694		
Combined Adjust. Factor	0.9999310270		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Texas Eastern pipeline marker	266	9.57	31.4	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 Newport Ref Mon # 3 K 183, 160010	Comments 3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM M-246 and K-183
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Location Description	
To reach the station from the junction of highways 226 and 18 in Cash, go west on hwy-226 for 4.60 miles to the station on the right. 13.5 feet west of a field entrance, 61.3 feet north of the center of hwy-226 and 7.40 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "160030 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160031	Date Monumented 12/5/2006	Monumented By AHTD	County CRAIGHEAD	Route NA	Job Number: 100639, 100950
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	160,309.8700	
Easting (M)	516,276.1080	
Elevation (M)*	112.289	
Northing (SFT)	525,949.9652	
Easting (SFT)	1,693,815.8643	
Elevation (SFT)*	368.402	

Convergence Angle	0	44	54.0097984
Scale Factor	0.999941256		
Elevation Adjust. Factor	0.9999823785		
Combined Adjust. Factor	0.9999236355		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	295	26.97	88.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 K 183, 160027 Ref Mon # 2 ARBT, ARPG, MANIPORT Ref Mon # 3 160011A, 160017, 160071A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3wire levels ran by S5101 from NGS C 76 under Job #100639 on 1-19-07.</td> </tr> </table>	Comments	3wire levels ran by S5101 from NGS C 76 under Job #100639 on 1-19-07.
Comments			
3wire levels ran by S5101 from NGS C 76 under Job #100639 on 1-19-07.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160031A	Date Monumented 12/5/2006	Monumented By AHTD	County CRAIGHEAD	Route NA	Job Number: 100639
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	159,938.0860
Easting (M)	516,784.7810
Elevation (M)*	107.624
Northing (SFT)	524,730.2038
Easting (SFT)	1,695,484.7357
Elevation (SFT)*	353.095

Convergence Angle	0	45	5.6809453
Scale Factor	0.999941064		
Elevation Adjust. Factor	0.9999831106		
Combined Adjust. Factor	0.9999241756		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 49S BRIDGE OVER STATE HIGHWAY 63 BYPASS, ON THE SOUTHWEST SIDE OF JONESBORO, GO SOUTH ON HIGHWAY 49 FOR 0.1 MILE TO PARKER ROAD AND TURN LEFT ON PARKER ROAD AND GO 0.40 MILES TO HIGHWAY 141 (CLUBERHOUSE RD.) AND TURN RIGHT ON HIGHWAY 141 AND GO 2.50 MILES TO A FOUR WAY STOP AND TURN LEFT ON EAST LAWSON RD. AND GO 0.20 MILES TO TIMBERLAND DR. AND TURN LEFT ON TIMBERLAND DR. AND GO 0.20 MILES TO THE STATION MARK ON THE RIGHT, 16 80 FEET SOUTHEAST OF THE CENTERLINE OF THE STREET AND 1.50 FEET NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "160031A 2006" ON TOP OF A 4.0 FOOT REBAR DRIVEN 0.80 FOOT BELOW GROUND LEVEL AND AT THE BASE OF A CONCRETE STREET LIGHT FOUNDATION.</p>				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CONCRETE LAMP POST	135	0.70	2.3	
MK # 2	TELEPHONE PEDASTAL	133	3.66	12.0	
MK # 3	TRANSFORMER	339	12.13	39.8	

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	K 183, 160027	3wire levels ran by S5101 from NGS C 76 under Job #100639 on 1-19-07.
Ref Mon # 2	ARBT, ARPG, MANIPORT	
Ref Mon # 3	160011A, 160017, 160071A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160032	Date Monumented 10/13/2010	Monumented By AHTD	County Craighead	Route 91	Job Number: 100727
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	168,667.2529	
Easting (M)	515,113.4900	
Elevation (M)*	88.249	
Northing (SFT)	553,369.1456	
Easting (SFT)	1,690,001.5084	
Elevation (SFT)*	289.531	

Convergence Angle	0	44	29.5819875
Scale Factor	0.999946412		
Elevation Adjust. Factor	0.9999861510		
Combined Adjust. Factor	0.9999325638		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Comination pole	283	17.68	58.0
MK # 2	center of a manhole lid	104	20.73	68.0
MK # 3	Center of a manhole lid	245	5.33	17.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG Ref Mon # 2 ARBT Ref Mon # 3 Maniport, H315	Digital levels were ran by crew S5103 from NGS marks F 315 to K 3 during Job 100727 in Oct. 2010.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160032A	Date Monumented 10/13/2010	Monumented By AHTD	County Craighead	Route NA	Job Number: 100727
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	168,116.5349	
Easting (M)	515,135.5980	
Elevation (M)*	90.423	
Northing (SFT)	551,562.3316	
Easting (SFT)	1,690,074.0411	
Elevation (SFT)*	296.661	

Convergence Angle	0	44	29.9293261
Scale Factor	0.999946019		
Elevation Adjust. Factor	0.9999858100		
Combined Adjust. Factor	0.9999318297		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Sign post	12	10.70	35.1
MK # 2	Combination pole	183	14.33	47.0
MK # 3	Southwest corner of a building	100	28.04	92.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 ARBT Ref Mon # 3 Maniport, H 315	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital levels were ran by crew S5103 from NGS marks F 315 to K 3 during Job 100727 in Oct. 2010.</td> </tr> </table>	Comments	Digital levels were ran by crew S5103 from NGS marks F 315 to K 3 during Job 100727 in Oct. 2010.
Comments			
Digital levels were ran by crew S5103 from NGS marks F 315 to K 3 during Job 100727 in Oct. 2010.			

Location Description	
To reach the station from the junction of highways 91(Johnson St.) and 141 (Main St.) on the north side of Jonesboro go west on hwy-91 for 1.20 miles to Gee street on the left. Turn left (south) on Gee street and go 0.30 miles to the station on the left in the "Family Dollar" parking lot. 41.0 feet east of the center of Gee st., 86.0 feet south of the north driveway, 26.0 feet north of the south driveway and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "180017A 2010" set on top of a 5/8 inch by 1.50 foot long rebar and is 0.20 feet below the surface.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160033	Date Monumented 12/3/2010	Monumented By AHTD	County Craighead	Route 18	Job Number: 100412
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	163,927.2549	
Easting (M)	496,772.6990	
Elevation (M)*	76.405	
Northing (SFT)	537,818.0021	
Easting (SFT)	1,629,828.4300	
Elevation (SFT)*	250.673	

Convergence Angle	0	37	23.0844582
Scale Factor	0.999943412		
Elevation Adjust. Factor	0.9999880097		
Combined Adjust. Factor	0.9999314224		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	light pole	130	19.81	65.0
MK # 2	west end of 24" CMP	73	18.29	60.0
MK # 3	60" red oak	26	27.74	91.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 TN42 Ref Mon # 3 MSB6	Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan & H 315 during the Hydraulic Study for job 100412.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160034	Date Monumented 12/3/2010	Monumented By AHTD	County Craighead	Route 18	Job Number: 100412
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	165,792.7290	
Easting (M)	499,315.5280	
Elevation (M)*	76.261	
Northing (SFT)	543,938.3117	
Easting (SFT)	1,638,171.0281	
Elevation (SFT)*	250.199	

Convergence Angle	0	38	22.5022559
Scale Factor	0.999944570		
Elevation Adjust. Factor	0.9999880323		
Combined Adjust. Factor	0.9999326030		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Middle of headwall on south end of box culvert	313	11.58	38.0
MK # 2	power pole with guy wire	17	17.68	58.0
MK # 3	power pole	196	10.36	34.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 TN42 Ref Mon # 3 MSB6	Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan & H 315 during the Hydraulic Study for job 100412.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160035	Date Monumented 12/3/2010	Monumented By AHTD	County Craighead	Route 18	Job Number: 100412
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	168,216.7089	
Easting (M)	499,327.2040	
Elevation (M)*	75.385	
Northing (SFT)	551,890.9858	
Easting (SFT)	1,638,209.3351	
Elevation (SFT)*	247.326	

Convergence Angle	0	38	23.4004612
Scale Factor	0.999946226		
Elevation Adjust. Factor	0.9999881698		
Combined Adjust. Factor	0.9999343964		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	south end of box CU on east side of Hwy 18	288	12.04	39.5
MK # 2	west end of 36" CMP	0	5.49	18.0
MK # 3	telephone box	70	15.55	51.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 TN42 Ref Mon # 3 MSB6	Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan & H 315 during the Hydraulic Study for job 100412.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160036	Date Monumented 12/3/2010	Monumented By AHTD	County Craighead	Route 91	Job Number: 100412
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	168,213.0370	
Easting (M)	503,194.3170	
Elevation (M)*	78.517	
Northing (SFT)	551,878.9389	
Easting (SFT)	1,650,896.6884	
Elevation (SFT)*	257.600	

Convergence Angle	0	39	53.0700284
Scale Factor	0.999946192		
Elevation Adjust. Factor	0.9999876783		
Combined Adjust. Factor	0.9999338710		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	well head north of station mark	10	8.41	27.6
MK # 2	well head west of station mark	240	28.35	93.0
MK # 3	combination pole with transformer	209	32.92	108.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 TN42 Ref Mon # 3 MSB6	Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan & H 315 during the Hydraulic Study for job 100412.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160037	Date Monumented 12/3/2010	Monumented By AHTD	County Craighead	Route CR155	Job Number: 100412
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	165,646.9879	
Easting (M)	503,299.5780	
Elevation (M)*	77.784	
Northing (SFT)	543,460.1595	
Easting (SFT)	1,651,242.0322	
Elevation (SFT)*	255.195	

Convergence Angle	0	39	54.8199399
Scale Factor	0.999944446		
Elevation Adjust. Factor	0.9999877933		
Combined Adjust. Factor	0.9999322400		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	USGS observation water well	254	0.91	3.0
MK # 2	power pole	75	24.69	81.0
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARBT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>TN42</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MSB6</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARBT	Ref Mon # 2	TN42	Ref Mon # 3	MSB6	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan & H 315 during the Hydraulic Study for job 100412.</td> </tr> </table>	Comments	Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan & H 315 during the Hydraulic Study for job 100412.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARBT										
Ref Mon # 2	TN42										
Ref Mon # 3	MSB6										
Comments											
Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan & H 315 during the Hydraulic Study for job 100412.											

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 49 15.6695160
Longitude	90 51 24.4758060
Ellipsoid Height (M):	50.096
Geoid Height (M):	-27.672

Location Description
<p>To reach the station from the intersection of highway 91 and CR155, go south on CR155 for 1.6 miles to the station on the right, 36 feet west of the centerline of CR155, 2 feet east of the witness post. The station mark is a standard 2 1/2 inch aluminum cap stamped "160037 2010" and set on top of a 3/4 inch rebar 4 feet long and driven 0.2 feet below ground level.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160038	Date Monumented 12/3/2010	Monumented By AHTD	County Craighead	Route CR 106	Job Number: 100412, br1611
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	165,527.4750	
Easting (M)	507,042.1370	
Elevation (M)*	108.848	
Northing (SFT)	543,068.0576	
Easting (SFT)	1,663,520.7445	
Elevation (SFT)*	357.112	

Convergence Angle	0	41	21.5430646
Scale Factor	0.999944340		
Elevation Adjust. Factor	0.9999829185		
Combined Adjust. Factor	0.9999272594		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	telephone box	314	15.24	50.0	
MK # 2	center of gate	11	19.20	63.0	
MK # 3	power ole	150	11.89	39.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 TN42 Ref Mon # 3 MSB6	Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan & H 315 during the Hydraulic Study for job 100412.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160039	Date Monumented 7/11/2016	Monumented By AHTD	County Craighead	Route 49	Job Number: 100882
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	170,685.2229 0.0020
Easting (M)	523,777.9619 0.0020
Elevation (M)*	90.714 0.0024
Northing (SFT)	559,989.7688
Easting (SFT)	1,718,428.1967
Elevation (SFT)*	297.618

Convergence Angle	0 47 51.1449676
Scale Factor	0.999947824
Elevation Adjust. Factor	0.9999857642
Combined Adjust. Factor	0.9999335889

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - 3 Wire Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12B
Latitude	35 51 50.6503296
Longitude	90 37 45.9060492
Ellipsoid Height (M):	62.826 0.0080
Geoid Height (M):	-27.900

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 49 AND STATE HIGHWAY 91, IN JONESBORO, GO EAST ON HIGHWAY 49 FOR 2.2 MILES TO THE MARK ON THE RIGHT, 49.5 FEET (15.09M) SOUTH OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "160039 2016" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	95	23.16	76.0
MK # 2	CENTER OF MANHOLE	240	9.20	30.2
MK # 3	CENTER OF DROP INLET	275	14.72	48.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	22 FEET 6.70(M) EAST OF THE CL OF CONCRETE ENTRANCE TO BEAR STATE BANK. Three wire levels done by crew S5113 in July 2016 in job 100882.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160039A	Date Monumented 7/11/2016	Monumented By AHTD	County Craighead	Route 49	Job Number: 100882
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	170,693.8888 0.0020
Easting (M)	524,210.4832 0.0020
Elevation (M)*	83.817 0.0024
Northing (SFT)	560,018.2002
Easting (SFT)	1,719,847.2270
Elevation (SFT)*	274.990

Convergence Angle	0 48 1.1792069
Scale Factor	0.999947826
Elevation Adjust. Factor	0.9999868465
Combined Adjust. Factor	0.9999346732

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER VALVE	170	2.38	7.8
MK # 2	POWER POLE	245	31.70	104.0
MK # 3	FIRE HYDRANT	95	28.71	94.2

Area Reference Monuments (used for Processing) Ref Mon # 1 <div style="border: 1px solid black; height: 20px; width: 150px;"></div> Ref Mon # 2 <div style="border: 1px solid black; height: 20px; width: 150px;"></div> Ref Mon # 3 <div style="border: 1px solid black; height: 20px; width: 150px;"></div>	<div style="border: 1px solid black; padding: 5px;"> Comments 52.5 FEET 16.00(M) WEST OF THE CL OF OLD BRIDGER ROAD. Three wire levels done by crew S5113 in July 2016 in job 100882. </div>
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Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 49 AND STATE HIGHWAY 91, IN JONESBORO, GO EAST ON HIGHWAY 49 FOR 2.4 MILES TO THE MARK ON THE RIGHT, 42.5 FEET (12.95M) SOUTH OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "160039A 2016" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

Vertical Determined By:	3rd Order - 3 Wire Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12B
Latitude	35 51 50.7358008
Longitude	90 37 28.6620996
Ellipsoid Height (M):	55.928 0.0080
Geoid Height (M):	-27.904

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	160039

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160040	Date Monumented 10/5/2016	Monumented By AHTD	County Craighead	Route 18	Job Number: 100835
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	165,369.8818 0.0020
Easting (M)	519,448.3071 0.0020
Elevation (M)*	82.641
Northing (SFT)	542,551.0205
Easting (SFT)	1,704,223.3209
Elevation (SFT)*	271.131

Convergence Angle	0	46	9.0717834
Scale Factor	0.999944138		
Elevation Adjust. Factor	0.9999870311		
Combined Adjust. Factor	0.9999311698		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fire Hydrant	325	15.54	51.0
MK # 2	Center of Catch Basin	170	25.91	85.0
MK # 3	Ceter of Catch Basin	5	32.31	106.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARPG Ref Mon # 3 ARWY	Elevation by three-wire from NGS BM H-332, checking into NGS BM G332. Three wire performed by crew S5101 in October, 2016 during job 100835.

Location Description	
From the intersection of I-555 and South Caraway Road in Jonesboro, Arkansas. Travel North along South Caraway Road 0.65 miles to the station on the left which is located 17.5(M) 57.5(f) West of the center line of South Caraway Road and 22.1(M) 72.5(f) South of the center line of Fowler Street.	

Vertical Determined By:	3rd Order - 3 Wire Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12B
Latitude	35 49 0.1200648
Longitude	90 40 41.3199300
Ellipsoid Height (M):	54.821 0.0040
Geoid Height (M):	-27.822

AZ Mark Station	160040A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160040A	Date Monumented 10/5/2016	Monumented By AHTD	County Craighead	Route 18	Job Number: 100835,100979
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	166,233.9949 0.0020
Easting (M)	519,454.2550 0.0020
Elevation (M)*	86.140

Northing (SFT)	545,386.0316
Easting (SFT)	1,704,242.8349
Elevation (SFT)*	282.610

Convergence Angle	0 46	9.4786028
Scale Factor	0.999944697	
Elevation Adjust. Factor	0.9999864820	
Combined Adjust. Factor	0.9999311798	

SUPERCEDED CONTROL

Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Description				
From the intersection of I-555 and South Caraway Road in Jonesboro, Arkansas. Travel North along South Caraway Road 1.20 miles to the station on the left which is located 13.7(M) 45.0(f) West of the center line of South Caraway Road and 19.8(M) 72.5(f) South of the center line of Wilkins Avenue.				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fire Hydrant	322	5.33	17.5
MK # 2	Signal Pole With Arm	34	6.10	20.0
MK # 3	Light Pole	233	24.20	79.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARPG Ref Mon # 3 ARWY	Elevation by three-wire from NGS BM H-332, checking into NGS BM G332. Three wire performed by crew S5101 in October, 2016 during job 100835.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160041	Date Monumented 7/18/2017	Monumented By AHTD	County CRAIGHEAD	Route COMMERCE	Job Number: 100657
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	166,939.8225	0.0020			
Easting (M)	524,334.2181	0.0020			
Elevation (M)*	73.118				
Northing (SFT)	547,701.7343				
Easting (SFT)	1,720,253.1805				
Elevation (SFT)*	239.889				

Convergence Angle	0	48	2.8320122
Scale Factor	0.999945123		
Elevation Adjust. Factor	0.9999885255		
Combined Adjust. Factor	0.9999336491		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	142	15.73	51.6
MK # 2	NORTH END OF 24" RCP	42	20.73	68.0
MK # 3	SAN SWR MANHOLE	60	20.03	65.7

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARPG Ref Mon # 3 ARWY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> NEW ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM'S L 332 & M 332 BY S5112 IN JULY/AUG. 2017 FOR JOB #100657. ELEVATION FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT. </td> </tr> </table>	Comments	NEW ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM'S L 332 & M 332 BY S5112 IN JULY/AUG. 2017 FOR JOB #100657. ELEVATION FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.
Comments			
NEW ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM'S L 332 & M 332 BY S5112 IN JULY/AUG. 2017 FOR JOB #100657. ELEVATION FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.			

Vertical Determined By:	None
Elevation Datum:	
Geoid Datum:	Geoid 12B
Latitude	35 49 48.8834760
Longitude	90 37 25.8217356
Ellipsoid Height (M):	45.240
Geoid Height (M):	-27.879

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 18 (HIGHLAND RD) AND STATE HIGHWAY 18s (COMMERCE DR), SOUTHEAST OF JONESBORO, GO NORTH ON COMMERCE DRIVE 0.6 MILES TO THE MARK ON THE LEFT, WEST 16.6' OF THE C/L OF COMMERCE DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "160041 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160041A	Date Monumented 7/18/2017	Monumented By AHTD	County CRAIGHEAD	Route 160041A	Job Number: 100657
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	167,314.7152	0.0020
Easting (M)	524,344.9648	0.0020
Elevation (M)*	73.767	
Northing (SFT)	548,931.6948	
Easting (SFT)	1,720,288.4387	
Elevation (SFT)*	242.016	

Convergence Angle	0	48	3.2026475
Scale Factor	0.999945377		
Elevation Adjust. Factor	0.9999884238		
Combined Adjust. Factor	0.9999338014		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	174	9.45	31.0
MK # 2	WATER METER	23	8.84	29.0
MK # 3	LIGHT POLE	72	26.00	85.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARPG Ref Mon # 3 ARWY	NEW ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM'S L 332 & M 332 BY S5112 IN JULY/AUG. 2017 FOR JOB #100657. ELEVATION FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.

Vertical Determined By:	None
Elevation Datum:	
Geoid Datum:	Geoid 12B
Latitude	35 50 1.0415940
Longitude	90 37 25.1847948
Ellipsoid Height (M):	45.885
Geoid Height (M):	-27.881

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 18 (HIGHLAND RD) AND STATE HIGHWAY 18s (COMMERCE DR), SOUTHEAST OF JONESBORO, GO NORTH ON COMMERCE DRIVE 0.85 MILES TO THE MARK ON THE RIGHT, EAST 18" OF THE C/L OF COMMERCE DRIVE AND 41' SOUTH OF A ASPHALT DRIVE WAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "160041A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160042	Date Monumented 7/18/2017	Monumented By AHTD	County CRAIGHEAD	Route 49	Job Number: 100657
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	170,699.8985	0.0020			
Easting (M)	524,781.0890	0.0020			
Elevation (M)*	79.401				
Northing (SFT)	560,037.9170				
Easting (SFT)	1,721,719.2895				
Elevation (SFT)*	260.502				

Convergence Angle	0	48	14.4151696
Scale Factor	0.999947825		
Elevation Adjust. Factor	0.9999875395		
Combined Adjust. Factor	0.9999353652		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH LIGHT & TRANS	100	13.41	44.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	NEW ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM'S L 332 & M 332 BY S5112 IN JULY/AUG. 2017 FOR JOB #100657. ELEVATION FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARPG	
Ref Mon # 3 ARWY	

Vertical Determined By:	None
Elevation Datum:	
Geoid Datum:	Geoid 12B
Latitude	35 51 50.6715768
Longitude	90 37 5.9159532
Ellipsoid Height (M):	51.491
Geoid Height (M):	-27.910

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 35s AND STATE HIGHWAY 49/1, NORTHEAST OF JONESBORO, GO NORTH ON HIGHWAY 49 1.8 MILES TO THE MARK ON THE RIGHT, SOUTH OF THE EDGE OF THE ASPHALT 16.0', 70.5' WEST OF THE C/L OF AN ASPHALT DRIVE AND 97' EAST OF THE C/L OF A CONCRETE DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "160042 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160042A	Date Monumented 7/18/2017	Monumented By AHTD	County CRAIGHEAD	Route 49	Job Number: 100657
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	170,741.7979 0.0020
Easting (M)	525,277.3711 0.0020
Elevation (M)*	79.551

Northing (SFT)	560,175.3819
Easting (SFT)	1,723,347.5084
Elevation (SFT)*	260.992

Convergence Angle	0	48	25.9390725
Scale Factor	0.999947852		
Elevation Adjust. Factor	0.9999875161		
Combined Adjust. Factor	0.9999353687		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

 TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 35s AND STATE HIGHWAY 49/1, NORTHEAST OF JONESBORO, GO NORTH ON HIGHWAY 49 2.1 MILES TO THE MARK ON THE RIGHT, SOUTH OF THE EDGE OF THE ASPHALT 12.5', 29' EAST OF THE C/L OF AN ASPHALT DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "160042A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UNDERGROUND CABLE MARKER	154	16.45	54.0
MK # 2				
MK # 3				

AZ Mark Station	160042
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	NEW ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM'S L 332 & M 332 BY S5112 IN JULY/AUG. 2017 FOR JOB #100657. ELEVATION FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARPG	
Ref Mon # 3 ARWY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160043	Date Monumented 2/4/2020	Monumented By ARDOT S5113	County CRAIGHEAD	Route I-555	Job Number: 100959
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	164,254.4826	0.0009			
Easting (M)	517,629.4505	0.0009			
Elevation (M)*					
Northing (SFT)	538,891.5817				
Easting (SFT)	1,698,255.9555				
Elevation (SFT)*					

Convergence Angle	0	45	26.5698959
Scale Factor	0.999943459		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
INTERSECTION OF I 555 & HARRISBURG RD SE END OF OVERPASS BEHIND CONCRETE BARRIER			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	SE OF BRIDGE BARRIER	122	1.20	3.9	160043A
MK # 2	SW OF I DRIVE CAMERA POLE	271	17.10	56.1	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1: ARJB Ref Mon # 2: ARPG Ref Mon # 3: AROC	Comments ELEVATION (300.1602 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160043A	Date Monumented 2/4/2020	Monumented By ARDOT S5113	County CRAIGHEAD	Route I-555	Job Number: 100959
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	164,342.1717	0.0009			
Easting (M)	517,947.1249	0.0009			
Elevation (M)*					
Northing (SFT)	539,179.2750				
Easting (SFT)	1,699,298.1923				
Elevation (SFT)*					

Convergence Angle	0	45	33.9594476		
Scale Factor	0.999943510				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
INTERSECTION OF I555 AND HIGDON RD OVERPASS GO NW .2 MILEST TO WINDOVER RD GO WEST .5 MILES TO BROWNS LANE ACCESS RD GO SE .2 MILES TO STATION ON THE RIGHT.					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	4' TO SHOULDER OF ACCESS ROAD		220	1.20	3.9
MK # 2	100'FROM LIGHT POLE		69	30.50	100.1
MK # 3	41' FROM END OF 24" RCP		325	12.50	41.0

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARJB	ELEVATION (284.8288 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .
Ref Mon # 2	ARPG	
Ref Mon # 3	AROC	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160044	Date Monumented 2/4/2020	Monumented By ARDOT S5113	County CRAIGHEAD	Route I-555	Job Number: 100959
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	164,397.4467	0.0008			
Easting (M)	520,278.0648	0.0009			
Elevation (M)*					
Northing (SFT)	539,360.6230				
Easting (SFT)	1,706,945.6176				
Elevation (SFT)*					

Convergence Angle	0	46	28.0003501
Scale Factor	0.999943524		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	10' OF GUARDRAIL	12	3.00	9.8
MK # 2	7' OF STADIUM BLVD SHOULDER	90	2.10	6.9
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARJB Ref Mon # 2 ARPG Ref Mon # 3 AROC	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ELEVATION (276.9548 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 . </td> </tr> </table>	Comments	ELEVATION (276.9548 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .
Comments			
ELEVATION (276.9548 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .			

Location Description
INTERSECTION OF I555 AND STADIUM BLVD NORTH OF I555 OVERPASS EAST OF STADIUM BLVD GUARDRAIL END OF BRIDGE

AZ Mark Station	160044A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160044A	Date Monumented 2/4/2020	Monumented By ARDOT S5113	County CRAIGHEAD	Route I-555	Job Number: 100959
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	164,211.1056	0.0008			
Easting (M)	520,380.6691	0.0009			
Elevation (M)*	78.652				
Northing (SFT)	538,749.2690				
Easting (SFT)	1,707,282.2452				
Elevation (SFT)*	258.044				

Convergence Angle	0	46	30.3199629		
Scale Factor	0.999943410				
Elevation Adjust. Factor	0.9999876571				
Combined Adjust. Factor	0.9999310678				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
FROM I555 AND STADIUM BLVD OVERPASS GO SOUTH .1 MILES TO ON RAMP GO EAST .1 TO STATION ON THE LEFT					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	26' E OF SEWER MANHOLE		122	7.90	25.9
MK # 2	38' END OF 24" RCP		325	11.60	38.1
MK # 3					

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARJB	ELEVATION BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .
Ref Mon # 2	ARPG	
Ref Mon # 3	AROC	

AZ Mark Station	160044
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 17 EV 1973	Date Monumented 3/1/2011	Monumented By AHTD	County NEVADA	Route 371	Job Number: 030394
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	494,999.5502	
Easting (M)	279,346.9340	
Elevation (M)*	106.564	
Northing (SFT)	1,624,011.0243	
Easting (SFT)	916,490.7326	
Elevation (SFT)*	349.620	

Convergence Angle	0	43	36.8488837
Scale Factor	0.999959085		
Elevation Adjust. Factor	0.9999832769		
Combined Adjust. Factor	0.9999423625		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	N/E COR. OF BUILDING	203	6.55	21.5	
MK # 2	CP WITH GUY & LIGHT	180	0.43	1.4	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM Ref Mon # 2 ARHP Ref Mon # 3 290020	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>THIRD ORDER BENCH</td> </tr> </table>	Comments	THIRD ORDER BENCH
Comments			
THIRD ORDER BENCH			

Vertical Determined By:	3rd Order by USGS
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 30 58.6426716
Longitude	93 17 55.5269388
Ellipsoid Height (M):	79.422
Geoid Height (M):	-26.533

Location Description
TO REACH THE STATION MARK FROM THE INTERSECTION OF ARKANSAS STATE HIGHWAY 371 AND ARKANSAS STATE HIGHWAY 32 IN WILLISVILLE, GO SOUTH ON HIGHWAY 371 300 FEET TO THE MARK ON THE RIGHT, WEST OF THE CENTERLINE OF HIGHWAY 371 30.7 FEET, SOUTH OF THE CENTERLINE OF A CONCRETE DRIVE 25.4 FEET AND 1 FOOT SOUTH OF A WITNESS POST. THE STATION MARK IS A 4 INCH BRASS CAP STAMPED "17 EV 1973" ON TOP OF AN IRON REBAR DRIVEN TO 8 INCHES ABOVE THE GROUND SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170001	Date Monumented 1/23/1992	Monumented By AHTD	County CRAWFORD	Route 282	Job Number: 040456,40086,040086
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 127,107.8311		Latitude 35 27 24.7452516
Easting (M) 190,280.0990		Longitude 94 18 38.1896244
Elevation (M)* 149.063		Ellipsoid Height (M): 119.437
		Geoid Height (M): -29.630

Northing (SFT) 417,019.6092	Easting (SFT) 624,277.2915	Location Description FROM THE JCT. OF HWY. 71 AND HWY. 64 IN ALMA, GO WEST ON HWY. 64 TO THE JCT. OF HWY. 64 AND HWY. 282, TURN NORTH ON HWY. 282 AND GO 0.40 MILES ACROSS A BRIDGE AND THE STATION ON THE RIGHT, THE STATION IS 2.70 FEET EAST OF THE GUARD RAIL AND 5.10 FEET NORTH OF A WITNESS POST.
Elevation (SFT)* 489.052		

Convergence Angle -1 20 40.3472893	Scale Factor 0.999938393	
Elevation Adjust. Factor 0.9999766076	Combined Adjust. Factor 0.9999150021	

SUPERCEDED CONTROL				
Horizontal Datum NAD 83 (1986)	Latitude 35 27 24.7524012	Longitude 94 18 38.1858084	Ellipsoid Height: 121.164	
Grid Northing (Meters) 127,108.0491	Grid Easting (Meters) 190,280.2003			

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NBC IN TOP OF FENCE POST	261	11.26	36.9		AZ Mark Station 170001A
MK # 2	NBC IN TOP OF FENCE POST	171	1.67	5.5		Geodetic Azimuth 257 15 51
MK # 3	NBC IN TOP OF FENCE POST	94	4.97	16.3		Grid Azimuth 258 36 31

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 DQUA, 170011	ELEV. ESTABLISHED IN MARCH 2013 UNDER JOB #040086 BY S5112 FROM AHTD GPS #170001A USING DIGITAL LEVELS. ELEV. TO 170001A WAS ESTABLISHED IN NOV. 2012 UNDER JOB #BB0407 BY S5112 FROM NGS 1ST ORDER BM J 311 USING DIGITAL LEVELS.
Ref Mon # 2 ARFY, 170012	
Ref Mon # 3 SALI, 170013	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170001A	Date Monumented 1/23/1992	Monumented By AHTD	County CRAWFORD	Route 540	Job Number: 040456,40086,BB0407,040086
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	126,920.0370	
Easting (M)	189,348.0194	
Elevation (M)*	148.408	
Northing (SFT)	416,403.4881	
Easting (SFT)	621,219.2936	
Elevation (SFT)*	486.900	

Convergence Angle	-1	21	1.7496472
Scale Factor	0.999938467		
Elevation Adjust. Factor	0.9999767106		
Combined Adjust. Factor	0.9999151790		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	27	17.9481600
Longitude	94	19	14.9655400
Ellipsoid Height:	120.319		
Grid Northing (Meters)	126,920.2280		
Grid Easting (Meters)	189,348.1316		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	"X" CUT IN TOP OF BRIDGE END		277	14.00	45.9
MK # 2	"X" CUT IN TOP OF CONCRETE GUARD R		84	11.32	37.1
MK # 3	"X" CUT IN TOP OF CONCRETE GUARD RAIL		120	13.41	44.0

Area Reference Monuments (used for Processing) Ref Mon # 1 DQUA, 170011 Ref Mon # 2 ARFY, 170012 Ref Mon # 3 SAL1, 170013	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. ESTABLISHED IN NOV. 2012 BY S5112 FROM NGS 1ST ORDER BM "J 311" USING DIGITAL LEVELS.</td> </tr> </table>	Comments	ELEV. ESTABLISHED IN NOV. 2012 BY S5112 FROM NGS 1ST ORDER BM "J 311" USING DIGITAL LEVELS.
Comments			
ELEV. ESTABLISHED IN NOV. 2012 BY S5112 FROM NGS 1ST ORDER BM "J 311" USING DIGITAL LEVELS.			

Location Description	
THE STATION IS IS BETWEEN THE SOUTH ENDS OF THE I-540 BRIDGES AT THE I-540 AND I-40 INTERCHANGE, 37.0 FEET SOUTHWEST OF THE SOUTHWEST BRIDGE END OF BRIDGE NO. 3453, 48.0 FEET SOUTHEAST OF THE SOUTHEAST BRIDGE END OF BRIDGE NO. 3452 AND 33.20 FEET WEST OF A WITNESS POST ON A HIGH POINT IN THE MEDIAN.	

AZ Mark Station	170001
Geodetic Azimuth	77 15 29
Grid Azimuth	78 36 31

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170002A	Date Monumented 1/23/1992	Monumented By AHTD	County CRAWFORD	Route 40	Job Number: 040456,40086,040086
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Vertical Determined By:</td> <td colspan="2">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td style="width: 10%;">35</td> <td style="width: 10%;">27</td> <td>52.9952940</td> </tr> <tr> <td>Longitude</td> <td>94</td> <td>16</td> <td>58.0693476</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td colspan="2">132.180</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td colspan="2">-29.572</td> <td></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	35	27	52.9952940	Longitude	94	16	58.0693476	Ellipsoid Height (M):	132.180			Geoid Height (M):	-29.572		
Vertical Determined By:	LEVEL - Unkown Quality																										
Elevation Datum:	NAVD 88																										
Geoid Datum:																											
Latitude	35		27	52.9952940																							
Longitude	94		16	58.0693476																							
Ellipsoid Height (M):	132.180																										
Geoid Height (M):	-29.572																										
Horizontal Datum NAD 83 (1997)																											
Northing (M)	127,919.3070																										
Easting (M)	192,824.0790																										
Elevation (M)*	161.745																										
Northing (SFT)	419,681.9264																										
Easting (SFT)	632,623.6659																										
Elevation (SFT)*	530.658																										

Convergence Angle	-1	19	42.0873875
Scale Factor	0.999938100		
Elevation Adjust. Factor	0.9999746176		
Combined Adjust. Factor	0.9999127192		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	27	53.0024616
Longitude	94	16	58.0669104
Ellipsoid Height:	134.333		
Grid Northing (Meters)	127,919.5264		
Grid Easting (Meters)	192,824.1455		

Location Reference Marks												
Description			Azimuth	Distance								
				Meters	Feet							
MK # 1	NBC IN TOP OF FENCE POST		261	4.58	15.0	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">AZ Mark Station</td> <td>170002</td> </tr> <tr> <td>Geodetic Azimuth</td> <td></td> </tr> <tr> <td>Grid Azimuth</td> <td></td> </tr> </table>	AZ Mark Station	170002	Geodetic Azimuth		Grid Azimuth	
AZ Mark Station	170002											
Geodetic Azimuth												
Grid Azimuth												
MK # 2	NBC IN TOP OF FENCE POST		23	2.32	7.6							
MK # 3	NBC IN TOP OF FENCE POST		51	8.06	26.4							

Area Reference Monuments (used for Processing)	Comments						
<table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>ARFY, 170011</td> </tr> <tr> <td>Ref Mon # 2</td> <td>DQUA, 170012</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SAL1, 170013</td> </tr> </table>	Ref Mon # 1	ARFY, 170011	Ref Mon # 2	DQUA, 170012	Ref Mon # 3	SAL1, 170013	ELEV. ESTABLISHED IN MARCH 2013 UNDER JOB #040086 BY S5112 FROM AHTD GPS #170001A USING DIGITAL LEVELS. ELEV. TO 170001A WAS ESTABLISHED IN NOV. 2012 UNDER JOB #BB0407 BY S5112 FROM NGS 1ST ORDER BM J 311 USING DIGITAL LEVELS.
Ref Mon # 1	ARFY, 170011						
Ref Mon # 2	DQUA, 170012						
Ref Mon # 3	SAL1, 170013						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170003	Date Monumented 5/11/1993	Monumented By AHTD	County CRAWFORD	Route 220	Job Number: 40128
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	154,223.2299	
Easting (M)	188,967.4100	
Elevation (M)*		
Northing (SFT)	505,980.7134	
Easting (SFT)	619,970.5776	
Elevation (SFT)*		

Convergence Angle	-1	21	25.4530820
Scale Factor	0.999938002		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NBC IN 6" PINE	77	23.55	77.3		SEE NOTES
MK # 2	NBC IN 8" CEDAR	104	24.74	81.2		144 58 42.6
MK # 3	NBC IN 10" CEDAR	190	33.88	111.2		146 20 08.05

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BOSTON AZ. #2	AZIMUTH MARK IS T-1 ON JOB 40128 (DETERMINED BY SUNSHOT FROM STATION 93170003)
Ref Mon # 2 GRASSY ROCK RESET	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170004	Date Monumented 5/11/1993	Monumented By AHTD	County CRAWFORD	Route 220	Job Number: 40128
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1986)
Northing (M)	155,582.7399
Easting (M)	191,188.8740
Elevation (M)*	
Northing (SFT)	510,441.0392
Easting (SFT)	627,258.8308
Elevation (SFT)*	

Convergence Angle	-1	20	34.7821918
Scale Factor	0.999938477		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN DOUBLE 8" PINE	25	20.64	67.7
MK # 2	NBC IN 8" PINE	73	20.65	67.8
MK # 3	NBC IN 12" GUM	135	15.96	52.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BOSTON AZ. #2	AZIMUTH MARK IS T-27 ON JOB 40128 (DETERMINED BY SUNSHOT FROM STATION 93170004)
Ref Mon # 2 GRASSY ROCK RESET	
Ref Mon # 3 NONE	

Location Description	
FROM CEDARVILLE GO NORTH TO HWY. 220, TURN RIGHT AND GO TO THE END OF STATE MAINTENANCE OF HWY. 220 CROSSING BRIDGE OVER LEE CREEK, CONTINUE AHEAD 0.62 MILES TO A "Y", GO RIGHT 1.0 MILES CROSSING A LOW WATER BRIDGE AND THE STATION ON THE RIGHT, THE STATION IS 114.31 FEET NORTH OF THE LOW WATER BRIDGE, 16.95 FEET EAST OF THE CENTER LINE OF CO. RD. NO. 61 AND 2.00 FEET WEST OF A WITNESS POST.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170005A	Date Monumented 9/13/1995	Monumented By AHTD	County CRAWFORD	Route I-40	Job Number: 40226,040348,040714, 04087
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	127,959.1898 0.0040
Easting (M)	185,528.2761 0.0040
Elevation (M)*	159.380

Northing (SFT)	419,812.7752	
Easting (SFT)	608,687.3525	
Elevation (SFT)*	522.898	

Convergence Angle	-1	22	30.4494952
Scale Factor	0.999938143		
Elevation Adjust. Factor	0.9999749887		
Combined Adjust. Factor	0.9999131333		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)
Latitude	35 27 48.7110276
Longitude	94 21 47.3955588
Ellipsoid Height:	129.117
Grid Northing (Meters)	127,959.3941
Grid Easting (Meters)	185,528.4300

Location Description

FROM THE JCT. OF HWY. 59 AND I-40 IN THE TOWN OF VAN BUREN, GO WEST ON I-40 FROM THE OVERPASS FOR 0.563 KM (0.35 MILES) TO THE STATION IN THE MEDIAN. THE STATION IS 4.40 METERS NORTH OF THE EDGE OF THE EASTBOUND LANES AND 1.70 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "170005A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH GROUND ***UPDATED DESCRIPTION*** GUARD RAIL HAS BEEN REPLACED AND ROAD HAS BEEN OVERLAID. MARK IS 6.5 FEET NORTH FROM BACK OF GUARD RAIL ON EAST BOUND LANE. MARK IS 1.0 FEET BELOW GROUND AND 3 FT NORTH OF WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	"X" CUT IN CENTER OF CONCRETE HEADW	59	53.30	174.9
MK # 2	"X" CUT IN CENTER OF CONCRETE HEADW	90	25.70	84.3
MK # 3	PUNCH MARK IN TOP OF GUARD RAIL POS	263	6.05	19.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY (92170001)	OLD ELEV. 159.375m BASED ON NGVD29 = 159.280 meters ELEVATION BY 3-WIRE USING AHTD BM SET IN THE TOP OF E ABUTMENT 24 FT S OF C/L OF EASTBOUND LANE OF BR NO. 3273B AT HWY. 59 OVERPASS. *****NEW ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM J 11 BY S5112 IN MARCH 2018 FOR JOB #040714 AND VERIFIED USING NGS 1ST
Ref Mon # 2 ARR V (FORT SMITH GIS NO.)	
Ref Mon # 3 OKHV (GRASSY OFFSET)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170006	Date Monumented 9/19/1995	Monumented By AHTD	County CRAWFORD	Route 59	Job Number: 040226,B40107
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Vertical Determined By:</td> <td colspan="2">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>26 13.5848256</td> </tr> <tr> <td>Longitude</td> <td>94</td> <td>21 9.0954792</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>105.123</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-30.260</td> <td></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	35	26 13.5848256	Longitude	94	21 9.0954792	Ellipsoid Height (M):	105.123		Geoid Height (M):	-30.260	
Vertical Determined By:	LEVEL - Unkown Quality																						
Elevation Datum:	NAVD 88																						
Geoid Datum:																							
Latitude	35		26 13.5848256																				
Longitude	94		21 9.0954792																				
Ellipsoid Height (M):	105.123																						
Geoid Height (M):	-30.260																						
Horizontal Datum NAD 83 (1986)																							
Northing (M)	125,005.5831																						
Easting (M)	186,423.7570																						
Elevation (M)*	135.296																						
Northing (SFT)	410,122.4839																						
Easting (SFT)	611,625.2761																						
Elevation (SFT)*	443.884																						

Convergence Angle	-1	22	8.1592746
Scale Factor	0.999939215		
Elevation Adjust. Factor	0.9999787681		
Combined Adjust. Factor	0.9999179844		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	325	10.60	34.8
MK # 2	POWER POLE	63	12.39	40.6
MK # 3	RAILROAD SIGNAL LIGHT POLE	178	16.90	55.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 92170001 Ref Mon # 2 FORT SMITH GIS NO. 103 Ref Mon # 3 GRASSY OFFSET	From NGS point R28 NGVD29 = 135.038 meters 135.383 meters THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. "R 28 1932". *****NOTE: S5112 FOUND MARK DESTROYED IN NOV. 2015 & REPLACED W/GPS # 170027 *****

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170006A	Date Monumented 9/19/1995	Monumented By AHTD	County CRAWFORD	Route N/A	Job Number: B40107,4594,03D04,040721,
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	125,186.3939	0.0030	
Easting (M)	186,894.9211	0.0030	
Elevation (M)*	135.459		

Northing (SFT)	410,715.6940		
Easting (SFT)	613,171.0870		
Elevation (SFT)*	444.419		

Convergence Angle	-1	21	57.3909794
Scale Factor	0.999939139		
Elevation Adjust. Factor	0.9999787425		
Combined Adjust. Factor	0.9999178828		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	26	19.8217572
Longitude	94	20	50.5846860
Ellipsoid Height:	105.217		
Grid Northing (Meters)	125,186.5921		
Grid Easting (Meters)	186,895.0610		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LAMP POST	188	19.25	63.2
MK # 2	RAILROAD CROSSING SIGN	243	12.15	39.9
MK # 3	CHAIN LINK FENCE CORNER	287	20.00	65.6

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY (92170001) Ref Mon # 2 ARHR(FORT SMITH GIS NO. 1) Ref Mon # 3 ARLR, SAL5 (GRASSY OFFSE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> OLD ELEV. (135.379m) From NGS point R28 135.466 meters THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. "R 28 1932". *****UPDATE D ELEV. BY S5112 IN NOV. 2015 FOR JOB # 040721 USING DIGITAL LEVELS FROM 1ST ORDER NGS BM R 28 *****UPDATE </td> </tr> </table>	Comments	OLD ELEV. (135.379m) From NGS point R28 135.466 meters THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. "R 28 1932". *****UPDATE D ELEV. BY S5112 IN NOV. 2015 FOR JOB # 040721 USING DIGITAL LEVELS FROM 1ST ORDER NGS BM R 28 *****UPDATE
Comments			
OLD ELEV. (135.379m) From NGS point R28 135.466 meters THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. "R 28 1932". *****UPDATE D ELEV. BY S5112 IN NOV. 2015 FOR JOB # 040721 USING DIGITAL LEVELS FROM 1ST ORDER NGS BM R 28 *****UPDATE			

Location Description	
FROM THE JCT. OF HWY. 59 AND MAIN STREET IN THE TOWN OF VAN BUREN, GO EAST ON HWY. 59 (MAIN STREET) FOR 0.820 KM (0.25 MILES) TO SOUTH ELEVENTH (11TH) STREET, TURN LEFT AND GO NORTH ON ELEVENTH STREET 11TH) FOR 0.492 KM (0.15 MILES) TO CEDAR STREET, TURN RIGHT ON CEDAR STREET AND GO 0.164 KM (0.05MILES) TO THE STATION ON THE LEFT. THE STATION IS 21.30 METERS NORTH OF THE VAN BUREN PUBLIC LIBRARY, 8.89 METERS NORTH OF THE CENTER OF CEDAR STREET, 3.50 METERS SOUTH OF THE SOUTHERNMOST RAIL OF THE RAILROAD TRACK AND 0.84 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "170006A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170007	Date Monumented 6/18/1996	Monumented By AHTD	County CRAWFORD	Route I 540	Job Number: 61,R40116,040485,040373,04
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	130,175.3256 0.0010
Easting (M)	196,496.6439 0.0010
Elevation (M)*	139.741

Northing (SFT)	427,083.5474
Easting (SFT)	644,672.7392
Elevation (SFT)*	458.467

Convergence Angle	-1 18 18.5318824
Scale Factor	0.999937403
Elevation Adjust. Factor	0.9999780705
Combined Adjust. Factor	0.9999154749

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)
Latitude	35 29 8.9207304
Longitude	94 14 34.4785776
Ellipsoid Height:	110.305
Grid Northing (Meters)	130,175.3280
Grid Easting (Meters)	196,496.6370

Location Description

TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE 40 AND HWY-59 ON THE NORTH SIDE OF VAN BUREN, GO EAST ON INTERSTATE 40 FOR 10.70 KM. (6.65 MI.) TO EXIT 12, TAKE EXIT 12 (TO I-540 NORTH) AND GO EAST AND NORTH ON THIS THE WEST-NORTH RAMP (BRIDGE NO. 6213) TO THE NORTH END OF THE RAMP AND THE STATION ON THE LEFT. 7.80 METERS SOUTHWEST OF THE CENTER OF I-540 AND 3.34 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170007 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF PARAPET WALL	95	5.47	17.9
MK # 2	NORTH END OF APPROACH GUTTER	21	4.60	15.1
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY, (ARFY, 170011)	3-wire Elevations were ran by S5103 in Job 040456 in April 2006 from NGS L28 and RV40. *****3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARHR, (DQUA, 70012)	
Ref Mon # 3 OKHV, (SAL1, 170013)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170007A	Date Monumented 6/18/1996	Monumented By AHTD	County CRAWFORD	Route NA	Job Number: 61,R40116,040485,040721,04
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	130,228.3942 0.0010
Easting (M)	197,007.0835 0.0010
Elevation (M)*	141.855

Northing (SFT)	427,257.6566	
Easting (SFT)	646,347.4064	
Elevation (SFT)*	465.404	

Convergence Angle	-1	18	6.7786326
Scale Factor	0.999937386		
Elevation Adjust. Factor	0.9999777387		
Combined Adjust. Factor	0.9999151261		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)
Latitude	35 29 11.0191632
Longitude	94 14 14.2804356
Ellipsoid Height:	112.428
Grid Northing (Meters)	130,228.3981
Grid Easting (Meters)	197,007.0780

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-71B, HWY-64 AND HWY-162 AT ALMA, GO WESTERLY ON HWY-71B & HWY-64 FOR 0.40 KM. (0.25 MI.) TO THE JUNCTION OF "RUDY ROAD", TURN RIGHT AND GO NORTHERLY ON "RUDY ROAD" FOR 0.89 KM. (0.55 MI.) TO THE NORTH END OF A BRIDGE OVER INTERSTATE 40 AND THE STATION ON THE LEFT. 8.0 METERS NORTHWEST OF A FENCE CORNER POST, 6.90 METERS SOUTHWEST OF THE CENTER OF "RUDY ROAD" AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170007 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	BENCH MARK DISK	116	8.50	27.9
MK # 2	PUNCH MARK IN GUARD RAIL POST	36	1.35	4.4
MK # 3	PUNCH MARK IN GUARD RAIL POST	317	7.76	25.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY, (ARFY, 170011)	3-wire Elevations were ran by S5103 in Job 040456 in April 2006 from NGS L28 and RV40. *****3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARHR, (DQUA, 170012)	
Ref Mon # 3 OKHV, (SALI, 170013)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170008	Date Monumented 3/24/1998	Monumented By AHTD	County CRAWFORD	Route N/A	Job Number: 001747
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 116,578.0471		Latitude 35 21 45.0549288
Easting (M) 192,796.4560		Longitude 94 16 48.7483752
Elevation (M)* 121.764		Ellipsoid Height (M): 91.879
Northing (SFT) 382,473.1429		Geoid Height (M): -29.932
Easting (SFT) 632,533.0394		
Elevation (SFT)* 399.487		

Convergence Angle -1 19 36.6635218	Location Description
Scale Factor 0.999943382	<p>TO REACH THE STATION FROM THE NORTH END OF THE BRIDGE OVER THE ARKANSAS RIVER ON STATE HIGHWAY 59, LOCATED ABOUT 3.22 KM (2.00 MI) NORTH OF BARLING, GO NORTH AND WEST ON STATE HIGHWAY 59 FOR 1.53 KM (0.95 MI) TO THE JUNCTION OF A GRAVEL ROAD (GUN CLUB ROAD) ON THE RIGHT, GO RIGHT EAST ON GUN CLUB ROAD FOR 2.17 KM (1.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS 6.20 METERS SOUTH OF THE CENTER OF GUN CLUB ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170008 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. Used as HPT 712 in job 001747</p>
Elevation Adjust. Factor 0.9999808916	
Combined Adjust. Factor 0.9999242747	

SUPERCEDED CONTROL			
Horizontal Datum		Latitude	
Longitude		Ellipsoid Height:	
Grid Northing (Meters)		Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station 170008A
MK # 2					Geodetic Azimuth 273 04 22.82101
MK # 3					Grid Azimuth 274 23 59.50879

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 FS 2</p> <p>Ref Mon # 2 Q 299</p> <p>Ref Mon # 3 GAYLOR</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170008A	Date Monumented 3/24/1998	Monumented By AHTD	County CRAWFORD	Route N/A	Job Number: 001747,040373,040748
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	116,607.9037 0.0010
Easting (M)	192,408.4142 0.0010
Elevation (M)*	

Northing (SFT)	382,571.0974		
Easting (SFT)	631,259.9389		
Elevation (SFT)*			

Convergence Angle	-1	19	45.6218110
Scale Factor	0.999943370		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	21	45.7317180
Longitude	94	17	4.1441712
Ellipsoid Height:	92.370		
Grid Northing (Meters)	116,607.9061		
Grid Easting (Meters)	192,408.3920		

Location Description			
<p>TO REACH THE STATION FROM THE NORTH END OF THE BRIDGE OVER THE ARKANSAS RIVER ON STATE HIGHWAY 59, LOCATED ABOUT 3.22 KM (2.00 MI) NORTH OF BARLING, GO NORTH AND WEST ON STATE HIGHWAY 59 FOR 1.53 KM (0.95 MI) TO THE JUNCTION OF A GRAVEL ROAD (GUN CLUB ROAD) ON THE RIGHT, GO RIGHT EAST ON GUN CLUB ROAD FOR 1.77 KM (1.10 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.40 METERS NORTH OF THE CENTER OF GUN CLUB ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170008A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. Used as VPT 627 in job 001747</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY, (FS 2)</p> <p>Ref Mon # 2 ARHR, (Q 299)</p> <p>Ref Mon # 3 OKHV, (GAYLOR)</p>	<p style="text-align: center;">Comments</p> <p>THERE WAS NO PREVIOUS DOCUMENTATION OF WHAT THE PUBLISHED ELEVATION IS BASED ON. THE PREVIOUS GEOID HT. WAS - 29.938m AND PREVIOUS ELEV. WAS 122.259m</p> <p>***** 3/7/2017</p> <p>GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC &</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170009	Date Monumented 10/17/2001	Monumented By AHTD	County CRAWFORD	Route 215	Job Number: 040351
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	134,441.2521	
Easting (M)	214,413.3540	
Elevation (M)*		
Northing (SFT)	441,079.3413	
Easting (SFT)	703,454.4789	
Elevation (SFT)*		

Convergence Angle	-1	11	27.0383937
Scale Factor	0.999936419		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF OVERPASS	30	3.00	9.8
MK # 2	CENTER OF CONCRETE HEADWALL	156	8.00	26.2
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>GAYLOR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>OZARPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD FS 2</td> </tr> </table>	Ref Mon # 1	GAYLOR	Ref Mon # 2	OZARPORT	Ref Mon # 3	AHTD FS 2	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	GAYLOR						
Ref Mon # 2	OZARPORT						
Ref Mon # 3	AHTD FS 2						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 31 39.9759456
Longitude	94 2 47.3222508
Ellipsoid Height (M):	117.738
Geoid Height (M):	-29.101

Location Description
<p>THIS STATION IS LOCATED AT THE JUNCTION OF STATE HIGHWAY 215 AND 140. IT IS IN THE SOUTHWEST QUADRANT, AT THE SOUTHWEST CORNER OF THE OVERPASS. THE STATION IS 7.20 METERS WEST OF THE CENTER OF STATE HIGHWAY 215 AND 2.08 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170009 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 827.718 METERS.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170009A	Date Monumented 10/17/2001	Monumented By AHTD	County CRAWFORD	Route N/A	Job Number: 040351
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	134,552.6590
Easting (M)	213,593.2440
Elevation (M)*	
Northing (SFT)	441,444.8487
Easting (SFT)	700,763.8347
Elevation (SFT)*	

Convergence Angle	-1	11	46.0311022
Scale Factor	0.999936404		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 215 AND I 40 LOCATED ABOUT 3.219 KM (2.0 MI) NORTH OF MULBERRY, GO NORTH ON STATE HIGHWAY 215 FOR 0.322 KM (0.2 MI) TO SLATE HILL ROAD (a county road), TURN LEFT, (WEST) ON SLATE HILL ROAD FOR 0.901 KM (0.56 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.55 METERS SOUTH OF THE CENTER OF SLATE HILL ROAD AND 1.22 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170009A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 827.718 METERS.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					170009
MK # 2						96 32 23
MK # 3						97 44 09

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 GAYLOR	
Ref Mon # 2 OZARPORT	
Ref Mon # 3 AHTD FS 2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170010	Date Monumented 10/17/2001	Monumented By AHTD	County CRAWFORD	Route N/A	Job Number: 040351
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	135,361.5820	
Easting (M)	217,810.2400	
Elevation (M)*		
Northing (SFT)	444,098.7903	
Easting (SFT)	714,599.0957	
Elevation (SFT)*		

Convergence Angle	-1	10	9.0263108
Scale Factor	0.999936278		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	325	17.90	58.7
MK # 2	CORRIGATED METAL PIPE	278	4.50	14.8
MK # 3	TELEPHONE JUNCTION BOX	242	19.85	65.1

Area Reference Monuments (used for Processing) Ref Mon # 1 GAYLOR Ref Mon # 2 OZARPORT Ref Mon # 3 AHTD FS 2	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 32 12.1033500
Longitude	94 0 33.2576352
Ellipsoid Height (M):	104.006
Geoid Height (M):	-29.039

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 215 AND I 40 LOCATED ABOUT 3.219 KM (2.0 MI) NORTH OF MULBERRY, GO NORTH ON STATE HIGHWAY 215 FOR 0.241 KM (0.15 MI) TO WIRE ROAD ON THE RIGHT. TURN RIGHT (EAST) ON WIRE ROAD AND GO EAST FOR 3.541 KM (2.2 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.30 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 8.00 METERS SOUTH OF THE CENTER OF WIRE ROAD, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "170010 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 451.744 METERS.

AZ Mark Station	170010A
Geodetic Azimuth	67 54 27
Grid Azimuth	69 04 36

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170010A	Date Monumented 10/17/2001	Monumented By AHTD	County CRAWFORD	Route N/A	Job Number: 040351
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	135,522.8951	
Easting (M)	218,232.1610	
Elevation (M)*		
Northing (SFT)	444,628.0317	
Easting (SFT)	715,983.3482	
Elevation (SFT)*		

Convergence Angle	-1	9	59.3574677
Scale Factor	0.999936256		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	253	30.25	99.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: GAYLOR	
Ref Mon # 2: OZARPORT	
Ref Mon # 3: AHTD FS 2	

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 32 17.6157420
Longitude	94 0 16.6416228
Ellipsoid Height (M):	109.106
Geoid Height (M):	-29.030

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 215 AND I 40 LOCATED ABOUT 3.219 KM (2.0 MI) NORTH OF MULBERRY, GO NORTH ON STATE HIGHWAY 215 FOR 0.241 KM (0.15 MI), TO WIRE ROAD ON THE RIGHT. TURN RIGHT (EAST) ON WIRE ROAD FOR 4.023 KM (2.5 MI) TO THE STATION ON THE LEFT. THE STATION IS 24.00 METERS EAST OF THE CENTER OF A GRAVEL FIELD ENTRANCE, 8.90 METERS NORTH OF THE CENTER OF WIRE ROAD, AND 1.10 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "170010A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 451.744 METERS.</p>

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170011	Date Monumented 9/24/2002	Monumented By AHTD	County CRAWFORD	Route 540	Job Number: 040130,40456,BB0407
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	125,371.3711	
Easting (M)	189,411.4830	
Elevation (M)*		
Northing (SFT)	411,322.5734	
Easting (SFT)	621,427.5071	
Elevation (SFT)*		

Convergence Angle	-1	20	59.4435687
Scale Factor	0.999939042		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER RAILROAD OVERPAS	200	3.50	11.5
MK # 2	PUNCH MARK IN METAL GUARD RAIL POS	329	5.35	17.6
MK # 3	PUNCH MARK IN METAL GUARD RAIL POS	337	7.95	26.1

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD FS 2 Ref Mon # 2 GAYLOR Ref Mon # 3 SALISAW 1	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 26 27.7510956
Longitude	94 19 11.0067888
Ellipsoid Height (M):	106.959
Geoid Height (M):	-29.703

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND I 540 IN VAN BUREN, GO SOUTHEAST ON I 540 FOR 0.40 MILES TO THE STATION ON THE LEFT. THE STATION IS 4.00 METERS EAST OF THE EAST EDGE OF SOUTHEAST BOUND LANE OF 540 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "170011 2002" SET OF TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170012	Date Monumented 12/1/2004	Monumented By AHTD	County CRAWFORD	Route 64	Job Number: 040431,040456
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	130,021.1121	
Easting (M)	198,370.1220	
Elevation (M)*	129.759	
Northing (SFT)	426,577.5986	
Easting (SFT)	650,819.3086	
Elevation (SFT)*	425.717	

Convergence Angle	-1	17	35.2110038
Scale Factor	0.999937434		
Elevation Adjust. Factor	0.9999796370		
Combined Adjust. Factor	0.9999170723		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	W edge of paved drive	60	29.30	96.1	
MK # 2	SW corner of concrete drive	82	23.15	76.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD FS 2	3-wire Elevations were ran by S5103 in Job 040456 in April 2006 from NGS L28 and RV40.
Ref Mon # 2 Gaylor	
Ref Mon # 3 Ozarport, 170011	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170012A	Date Monumented 12/1/2004	Monumented By AHTD	County CRAWFORD	Route 64	Job Number: 040431,040456
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	130,303.1501	
Easting (M)	198,959.5160	
Elevation (M)*	132.546	
Northing (SFT)	427,502.9183	
Easting (SFT)	652,753.0121	
Elevation (SFT)*	434.863	

Convergence Angle	-1	17	21.7542453
Scale Factor	0.999937355		
Elevation Adjust. Factor	0.9999791996		
Combined Adjust. Factor	0.9999165559		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SW corner of headwall	52	22.90	75.1
MK # 2	Guy wire	114	26.60	87.3
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD FS 2	3-wire Elevations were ran by S5103 in Job 040456 in April 2006 from NGS L28 and RV40.
Ref Mon # 2 Gaylor	
Ref Mon # 3 170011, Ozarport,	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 29 14.8767144
Longitude	94 12 56.9053116
Ellipsoid Height (M):	103.094
Geoid Height (M):	-29.414

Location Description
<p>To reach the station from the junction of Highways 71B and 64 in Alma go east on hwy-64 for 0.60 miles to the station on the right. 13.0 meters southeast of the center of highway 64 and 0.50 meters northwest of a witness post. The station mark is a standard 64mm cap stamped "170012A 2004" set on top of an iron rod 1.22 meters long and is 0.10 meters below the surface.</p>

AZ Mark Station	170012
Geodetic Azimuth	243 08 19
Grid Azimuth	244 25 40

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170013	Date Monumented 12/1/2004	Monumented By AHTD	County CRAWFORD	Route 64	Job Number: 040431,040456
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	127,906.5671	
Easting (M)	193,704.1300	
Elevation (M)*	156.811	
Northing (SFT)	419,640.1289	
Easting (SFT)	635,510.9665	
Elevation (SFT)*	514.471	

Convergence Angle	-1	19	21.7742698
Scale Factor	0.999938097		
Elevation Adjust. Factor	0.9999753918		
Combined Adjust. Factor	0.9999134904		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Fire hydrant		278	7.80	25.6
MK # 2	gas meter		32	11.40	37.4
MK # 3	Water valve		59	9.50	31.2

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD FS 2 Ref Mon # 2 Gaylor Ref Mon # 3 170011, Ozarport,	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Location Description			
To reach the station from the junction of highways 71B and 64 in Alma go west on hwy-64 for 2.90 miles to the station on the right in front of a church parking lot. 18.10 meters northwest of the center of the west bound lane of hwy-64 and 0.50 meters southeast of a witness post. The station mark is a standard 64mm cap stamped "170013 2004" set on top of an iron rod 1.22 meters long and is 0.10 meters below the surface.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170013A	Date Monumented 12/1/2004	Monumented By AHTD	County CRAWFORD	Route 64	Job Number: 040431,040456
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	128,149.4360	
Easting (M)	194,330.6060	
Elevation (M)*	152.718	
Northing (SFT)	420,436.9413	
Easting (SFT)	637,566.3299	
Elevation (SFT)*	501.043	

Convergence Angle	-1	19	7.4479110
Scale Factor	0.999938014		
Elevation Adjust. Factor	0.9999760341		
Combined Adjust. Factor	0.9999140496		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Southeast corner of a headwall	248	4.10	13.5
MK # 2	Southeast corner of a headwall	184	7.70	25.3
MK # 3	Center of a paved turn around	60	16.70	54.8

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD FS 2 Ref Mon # 2 Gaylor Ref Mon # 3 170011, Ozarport,	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire Elevations were ran by S5103 in Job 040456 in April 2006 from NGS L28 and RV40.</td> </tr> </table>	Comments	3-wire Elevations were ran by S5103 in Job 040456 in April 2006 from NGS L28 and RV40.
Comments			
3-wire Elevations were ran by S5103 in Job 040456 in April 2006 from NGS L28 and RV40.			

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 28 1.5900024
Longitude	94 15 58.5410292
Ellipsoid Height (M):	123.098
Geoid Height (M):	-29.548

Location Description
<p>To reach the station from the junction of highways 71B and 64 in Alma go west on highway 64 for 2.50 miles to the station on the left just west of a paved lane connecting the east and west bound lanes. The station is 11.30 meters northwest of the center of the east bound lane of hwy-64 and 9.40 meters southeast of the center of the west bound lane and 0.50 meters northwest of a witness post. The station mark is a standard 64mm cap stamped "170013A 2004" set on top of an iron rod 1.22 meters long and is 0.10 meters below the surface.</p>

AZ Mark Station	170013
Geodetic Azimuth	247 29 28
Grid Azimuth	248 48 36

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170014	Date Monumented 12/1/2004	Monumented By AHTD	County CRAWFORD	Route 282	Job Number: 040445,040256
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	141,365.2030	
Easting (M)	199,234.5360	
Elevation (M)*	206.074	

Northing (SFT)	463,795.6702	
Easting (SFT)	653,655.3069	
Elevation (SFT)*	676.094	

Convergence Angle	-1	17	21.1524971
Scale Factor	0.999935937		
Elevation Adjust. Factor	0.9999676613		
Combined Adjust. Factor	0.9999036004		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	22	11.55	37.9
MK # 2	16" CMP	199	10.95	35.9
MK # 3	C/L FIELD ENTRANCE ROAD	270	485.00	1,591.2

Area Reference Monuments (used for Processing) Ref Mon # 1 GAYLOR, AHTD FS 2 Ref Mon # 2 OKMU Ref Mon # 3 OZARPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION DETERMINED BY 3 WIRE LEVELS ON 12/1/04 FROM NGS BENCH MARK Y 311 BY CREW S5102.</td> </tr> </table>	Comments	ELEVATION DETERMINED BY 3 WIRE LEVELS ON 12/1/04 FROM NGS BENCH MARK Y 311 BY CREW S5102.
Comments			
ELEVATION DETERMINED BY 3 WIRE LEVELS ON 12/1/04 FROM NGS BENCH MARK Y 311 BY CREW S5102.			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 35 13.9389864
Longitude	94 12 55.8712008
Ellipsoid Height (M):	177.097
Geoid Height (M):	-28.977

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 282, SOUTH OF MOUNTAINBURG, GO WEST ON HIGHWAY 282 3.8 MILES TO A COUNTY ROAD ON THE RIGHT KNOWN AS OVERLOOK TRAIL, AND TURN RIGHT AND GO PAST THIRD FIELD ENTRANCE ON THE LEFT TO THE STATION ON THE LEFT, 16.90 METERS NORTHEAST OF THE CENTERLINE OF THE ROAD AND SOUTHWEST 0.90 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170014 2004" ON TOP OF A 0.50 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	170014A
Geodetic Azimuth	190 20 35
Grid Azimuth	191 37 56

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170014A	Date Monumented 12/1/2004	Monumented By AHTD	County CRAWFORD	Route 540	Job Number: 040445
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	140,875.7570				
Easting (M)	199,133.7810				
Elevation (M)*	255.213				
Northing (SFT)	462,189.8794				
Easting (SFT)	653,324.7465				
Elevation (SFT)*	837.310				

Convergence Angle	-1	17	23.2262306
Scale Factor	0.999935936		
Elevation Adjust. Factor	0.9999599504		
Combined Adjust. Factor	0.9998958890		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	GUARD RAIL POST	115	1.15	3.8	
MK # 2	GUARD RAIL POST	200	7.80	25.6	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 GAYLOR, AHTD FS 2 Ref Mon # 2 OKMU Ref Mon # 3 OZARPORT	ELEVATION DETERMINED BY 3 WIRE LEVELS ON 12/1/04 FROM NGS BENCH MARK E 28 BY CREW S5110 in Job 040445 in July 2005.

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 282 AND I-540 (EXIT 29), SOUTH OF MOUNTIANBURG, GO SOUTH ON I-540 2.7 MILES TO THE STATION ON THE RIGHT, SOUTHWEST 8.55 METERS FROM THE CENTERLINE OF THE SOUTH BOUND LANE, SOUTHWEST OF A BRIDGE AT MILE MARKER 27 AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170014A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.	

AZ Mark Station	170014
Geodetic Azimuth	10 20 32
Grid Azimuth	11 37 56

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170015	Date Monumented 12/1/2004	Monumented By AHTD	County CRAWFORD	Route 282	Job Number: 040445,040256
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	143,600.8610	
Easting (M)	202,149.4190	
Elevation (M)*	208.949	
Northing (SFT)	471,130.4915	
Easting (SFT)	663,218.5522	
Elevation (SFT)*	685.527	

Convergence Angle	-1	16	14.9366919
Scale Factor	0.999936021		
Elevation Adjust. Factor	0.9999672102		
Combined Adjust. Factor	0.9999032333		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	18" CMP		240	8.65	28.4
MK # 2	C/L ASPH DRIVEWAY		270	11.70	38.4
MK # 3	GATE POST		282	9.35	30.7

Area Reference Monuments (used for Processing) Ref Mon # 1 GAYLOR, AHTD FS 2 Ref Mon # 2 OKMU Ref Mon # 3 OZARPORT	Comments ELEVATION DETERMINED BY 3 WIRE LEVELS ON 12/1/04 FROM NGS BENCH MARK E 28 BY CREW S5102.
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Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	36	28.5778872
Longitude	94	11	2.0786172
Ellipsoid Height (M):	180.089		
Geoid Height (M):	-28.860		

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 282, SOUTH OF MOUNTIANBURG, GO SOUTH ON HIGHWAY 282 1.4 MILES TO THE STATION ON THE RIGHT, NORTHWEST 19.90 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170015 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	170015A
Geodetic Azimuth	20 25 21
Grid Azimuth	21 41 36

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170015A	Date Monumented 12/1/2004	Monumented By AHTD	County CRAWFORD	Route 282	Job Number: 040445,040256
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	144,194.9010	
Easting (M)	202,385.7370	
Elevation (M)*	213.376	
Northing (SFT)	473,079.4377	
Easting (SFT)	663,993.8721	
Elevation (SFT)*	700.051	

Convergence Angle	-1	16	9.7783258
Scale Factor	0.999936064		
Elevation Adjust. Factor	0.9999665155		
Combined Adjust. Factor	0.9999025816		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUARD RAIL POST	115	1.15	3.8
MK # 2	SIDEWALK	45	14.90	48.9
MK # 3	GUARD RAIL POST	200	7.80	25.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 GAYLOR, AHTD FS 2 Ref Mon # 2 OKMU Ref Mon # 3 OZARPORT	ELEVATION DETERMINED BY 3 WIRE LEVELS ON 12/1/04 FROM NGS BENCH MARK E 28 BY CREW S5102.

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 282, SOUTH OF MOUNTIANBURG, GO SOUTH ON HIGHWAY I-540 1.0 MILES TO THE STATION ON THE RIGHT, NORTHWEST 8.10 METERS OF THE CENTERLINE OF THE SOUTHBOUND LANE AND NORTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170015A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.	

AZ Mark Station	170015
Geodetic Azimuth	200 25 26
Grid Azimuth	201 41 36

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170016	Date Monumented 2/7/2006	Monumented By AHTD	County CRAWFORD	Route NA	Job Number: 56,040485,040721,040373,04
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	128,307.9549 0.0010
Easting (M)	196,794.9284 0.0010
Elevation (M)*	126.935

Northing (SFT)	420,957.0154	
Easting (SFT)	645,651.3609	
Elevation (SFT)*	416.454	

Convergence Angle	-1	18	10.6671044
Scale Factor	0.999937946		
Elevation Adjust. Factor	0.9999800801		
Combined Adjust. Factor	0.9999180273		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)
Latitude	35 28 8.5621152
Longitude	94 14 20.9631336
Ellipsoid Height:	97.422
Grid Northing (Meters)	128,307.9641
Grid Easting (Meters)	196,794.9150

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 162, IN ALMA, GO SOUTH ON HIGHWAY 162 (FAYETTEVILLE STREET) 0.20 MILES AND TURN RIGHT ON MAIN STREET AND GO 0.90 MILES ON ROUGH FIELD ROAD TO THE STATION ON THE RIGHT, 2.3' NORTHEAST OLD DIRT ROAD AND SOUTHWEST 3.2' OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "170016 2006" ON TOP OF A 4' REBAR DRIVEN BELOW GROUND LEVEL.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	27	7.28	23.9
MK # 2	LIGHT POLE W/TRANSFORMER	251	21.46	70.4
MK # 3	GUY	263	20.97	68.8

AZ Mark Station	170016A
Geodetic Azimuth	72 06 58
Grid Azimuth	73 25 09

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY, (ARFY, 170011)	NO PREVIOUS NOTES FOUND ON EXISTING ELEV. FROM JOB #040456 CTL FILE IT APPEARS ELEV. WAS ESTABLISHED BY 3-WIRE LEVELS FROM BM's L 28 & RV 40 DURING JOB #040456 IN APRIL 2006. PREVIOUS GEOID HT. WAS -29.516m AND PREVIOUS ELEV. WAS 126.937m. ***** 3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC
Ref Mon # 2 ARHR, (DQUA, 170012)	
Ref Mon # 3 OKHV, (SALI, 170013)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170016A	Date Monumented 2/7/2006	Monumented By AHTD	County CRAWFORD	Route NA	Job Number: 56,040485,040721,040373,04
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	128,421.8448 0.0010
Easting (M)	197,177.4163 0.0010
Elevation (M)*	126.280

Northing (SFT)	421,330.6691	
Easting (SFT)	646,906.2400	
Elevation (SFT)*	414.304	

Convergence Angle	-1	18	1.9006772
Scale Factor	0.999937908		
Elevation Adjust. Factor	0.9999801829		
Combined Adjust. Factor	0.9999180921		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)
Latitude	35 28 12.5387112
Longitude	94 14 5.8977276
Ellipsoid Height:	96.770
Grid Northing (Meters)	128,421.8521
Grid Easting (Meters)	197,177.4080

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 162, IN ALMA, GO SOUTH ON HIGHWAY 162 (FAYETTEVILLE STREET) 0.20 MILES AND TURN RIGHT ON MAIN STREET AND GO 0.60 MILES ON ROUGH FIELD ROAD TO THE STATION ON THE LEFT, 17' NORTHEAST OF THE CENTERLINE OF THE ROAD AND WEST 1.6' OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "170016A 2006" ON TOP OF A 4" REBAR DRIVEN BELOW GROUND LEVEL.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UNDERGROUND CABLE MARKER	74	2.83	9.3
MK # 2	POWER POLE	167	3.81	12.5
MK # 3	UNDERGROUND CABLE MARKER	198	6.71	22.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY, (ARFY, 170011) Ref Mon # 2 ARHR, (DQUA, 170012) Ref Mon # 3 OKHV, (SALI, 170013)	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Comments</p> <p>NO PREVIOUS NOTES FOUND ON EXISTING ELEV. FROM JOB #040456 CTL FILE IT APPEARS ELEV. WAS ESTABLISHED BY 3-WIRE LEVELS FROM BM's L 28 & RV 40 DURING JOB #040456 IN APRIL 2006. PREVIOUS GEOID HT. WAS -29.507 AND PREVIOUS ELEV. WAS 126.277m. ***** 3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC</p> </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170017	Date Monumented 2/7/2006	Monumented By AHTD	County CRAWFORD	Route 162	Job Number: 040456
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 126,096.7490		Latitude 35 26 58.2145404
Easting (M) 198,683.0050		Longitude 94 13 4.1143368
Elevation (M)* 124.070		Ellipsoid Height (M): 94.498
		Geoid Height (M): -29.571

Northing (SFT) 413,702.4173		
Easting (SFT) 651,845.8256		
Elevation (SFT)* 407.053		

Convergence Angle -1 17 25.9491708		
Scale Factor 0.999938686		
Elevation Adjust. Factor 0.9999805298		
Combined Adjust. Factor 0.9999192169		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64B AND STATE HIGHWAY 162, IN ALMA, GO SOUTH ON HIGHWAY 162 FOR 2.3 MILES TO THE STATION MARK ON THE LEFT, ON THE NORTH BANK OF FROG BAYOU AT NORTHEAST CORNER OF BRIDGE ACROSS SAID CREEK. THE STATION MARK IS 20 FEET EAST OF THE CENTERLINE OF THE HIGHWAY AND 1.5 FEET WEST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "170017 2006" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTHEAST CORNER BRIDGE	215	4.99	16.4	AZ Mark Station 170017A
MK # 2	TELEPHONE RISER		9.87	32.4	Geodetic Azimuth 4 48 25
MK # 3					Grid Azimuth 6 05 51

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY, 170011</p> <p>Ref Mon # 2 DQUA, 170012</p> <p>Ref Mon # 3 SAL1, 170013</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170017A	Date Monumented 2/7/2006	Monumented By AHTD	County CRAWFORD	Route 162	Job Number: 040456,040373,040748
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	126,733.1894 0.0010
Easting (M)	198,751.0008 0.0010
Elevation (M)*	121.725

Northing (SFT)	415,790.4722		
Easting (SFT)	652,068.9085		
Elevation (SFT)*	399.360		

Convergence Angle	-1	17	24.7111934
Scale Factor	0.999938456		
Elevation Adjust. Factor	0.9999808977		
Combined Adjust. Factor	0.9999193549		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	27	18.9110952
Longitude	94	13	1.9872084
Ellipsoid Height:	92.181		
Grid Northing (Meters)	126,733.1901		
Grid Easting (Meters)	198,750.9920		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	8	24.78	81.3
MK # 2	CENTER OF HEADWALL	338	6.25	20.5
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY, (ARFY, 170011) Ref Mon # 2 ARHR, (DQUA, 170012) Ref Mon # 3 OKHV, (SALI, 170013)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> NO PREVIOUS NOTES FOUND ON EXISTING ELEV. FROM JOB #040456 CTL FILE IT APPEARS ELEV. WAS ESTABLISHED BY 3-WIRE LEVELS FROM BM's L 28 & RV 40 DURING JOB #040456 IN APRIL 2006. PREVIOUS GEOID HT. WAS -29.549m AND PREVIOUS ELEV. WAS 121.730m. ***** 3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC </td> </tr> </table>	Comments	NO PREVIOUS NOTES FOUND ON EXISTING ELEV. FROM JOB #040456 CTL FILE IT APPEARS ELEV. WAS ESTABLISHED BY 3-WIRE LEVELS FROM BM's L 28 & RV 40 DURING JOB #040456 IN APRIL 2006. PREVIOUS GEOID HT. WAS -29.549m AND PREVIOUS ELEV. WAS 121.730m. ***** 3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC
Comments			
NO PREVIOUS NOTES FOUND ON EXISTING ELEV. FROM JOB #040456 CTL FILE IT APPEARS ELEV. WAS ESTABLISHED BY 3-WIRE LEVELS FROM BM's L 28 & RV 40 DURING JOB #040456 IN APRIL 2006. PREVIOUS GEOID HT. WAS -29.549m AND PREVIOUS ELEV. WAS 121.730m. ***** 3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12A
Latitude	35 27 18.9110772
Longitude	94 13 1.9868592
Ellipsoid Height (M):	92.078 0.0020
Geoid Height (M):	-29.624 0.0020

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64B AND STATE HIGHWAY 162, IN ALMA, GO SOUTH ON HIGHWAY 162 FOR 2.0 MILES TO THE STATION MARK ON THE LEFT, THE STATION MARK IS 27.7' EAST OF THE CENTERLINE OF THE HIGHWAY AND 1.5' WEST OF A WITNESS POST, AND NORTH OF A DIRT TURN IN. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "170017A 2006" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170018	Date Monumented 2/7/2006	Monumented By AHTD	County CRAWFORD	Route 64	Job Number: 40456,4594,BB0407
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 126,008.6511		Geoid Datum: Geoid 96
Easting (M) 189,346.7631		Latitude 35 26 48.3752299
Elevation (M)*		Longitude 94 19 14.1678401
Northing (SFT) 413,413.3828		Ellipsoid Height (M): 112.738
Easting (SFT) 621,215.1719		Geoid Height (M): -29.681
Elevation (SFT)*		

Convergence Angle -1 21 1.2829816	Scale Factor 0.999938799
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER OF OVERPASS	351	2.55	8.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY, 170011	
Ref Mon # 2 DQUA, 170012	
Ref Mon # 3 SAL1, 170013	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170019	Date Monumented 4/17/2006	Monumented By AHTD	County Crawford	Route 540	Job Number: R40013,chester
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	150,633.5560	
Easting (M)	204,148.6290	
Elevation (M)*		
Northing (SFT)	494,203.5916	
Easting (SFT)	669,777.6270	
Elevation (SFT)*		

Convergence Angle	-1	15	32.2961892
Scale Factor	0.999937096		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	Sall
Ref Mon # 2	ARFY
Ref Mon # 3	170015

Comments

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 40 18.1541856
Longitude	94 9 48.8004480
Ellipsoid Height (M):	244.252
Geoid Height (M):	-28.591

Location Description
<p>The station is located in the southeastern quadrant of the I-540 and highway 282 exit (exit 34) on top of a hill east of I-540 and south of highway 282. The station is a 2 1/2 inch cap stamped "170019 2006" set on top of a 4 foot long by 5/8 inch rebar a</p>

AZ Mark Station	170019A
Geodetic Azimuth	207 41 41
Grid Azimuth	208 57 13

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170019A	Date Monumented 4/17/2006	Monumented By AHTD	County Crawford	Route 540	Job Number: R40013
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	149,966.2089	
Easting (M)	203,779.4160	
Elevation (M)*		
Northing (SFT)	492,014.1370	
Easting (SFT)	668,566.3007	
Elevation (SFT)*		

Convergence Angle	-1	15	40.4976787
Scale Factor	0.999936940		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks								
Description			Azimuth		Distance			
					Meters	Feet		
MK # 1	NW bridge end	153	1.21	4.0				
MK # 2	NE bridge end	291	19.32	63.4				
MK # 3								

Area Reference Monuments (used for Processing) <div style="margin-top: 10px;"> Ref Mon # 1 Sall </div> <div style="margin-top: 10px;"> Ref Mon # 2 ARFY </div> <div style="margin-top: 10px;"> Ref Mon # 3 170015 </div>	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description
To reach the station from the I-540 and Hwy-282 exit (exit 34) on I-540 go south on 540 for 0.30 miles to the station in the median at the north end of the bridge. 22.90 feet west of the center of the highway and 1.5 feet southeast of a witness post.The

AZ Mark Station	170019
Geodetic Azimuth	27 41 33
Grid Azimuth	28 57 13

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170020	Date Monumented 4/17/2006	Monumented By AHTD	County Crawford	Route 540	Job Number: R40013,chester
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	154,353.5029				
Easting (M)	201,233.2780				
Elevation (M)*	369.773				
Northing (SFT)	506,408.1174				
Easting (SFT)	660,212.8462				
Elevation (SFT)*	1,213.164				

Convergence Angle	-1	16	41.6597968
Scale Factor	0.999938135		
Elevation Adjust. Factor	0.9999419739		
Combined Adjust. Factor	0.9998801125		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach the station from the I-540 and Hwy-282 exit (exit 34) on I-540 southeast of Chester go north on 540 for 3.0 miles to the station on the left. 25.10 feet west of the center of the northbound lane and 1.50 feet east of a witness post. The station is</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					170020A	
MK # 2					346 01 50	
MK # 3					347 18 32	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Sall Ref Mon # 2 ARFY Ref Mon # 3 170015	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170020A	Date Monumented 4/17/2006	Monumented By AHTD	County Crawford	Route 540	Job Number: R40013
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	155,429.9059	
Easting (M)	200,990.8750	
Elevation (M)*	337.395	
Northing (SFT)	509,939.6163	
Easting (SFT)	659,417.5624	
Elevation (SFT)*	1,106.937	

Convergence Angle	-1	16	47.8264183
Scale Factor	0.999938502		
Elevation Adjust. Factor	0.9999470545		
Combined Adjust. Factor	0.9998855598		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NW bridge end of I 540 northbound lane	122	1.65	5.4	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: Sall	
Ref Mon # 2: ARFY	
Ref Mon # 3: 170015	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 42 51.4784016
Longitude	94 11 58.5999708
Ellipsoid Height (M):	308.939
Geoid Height (M):	-28.456

Location Description
<p>To reach the station from the I-540 and Hwy-282 exit (exit 34) on I-540 southeast of Chester go north on 540 for 3.6 miles to the station on the left north of a bridge. 23.80 feet west of the center of the northbound lane and 1.50 feet east of a witness</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170021	Date Monumented 3/7/2012	Monumented By AHTD	County CRAWFORD	Route 59	Job Number: 040623
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 147,088.3339		Geoid Datum: Geoid 96
Easting (M) 183,009.2685		Latitude 35 38 7.2677328
Elevation (M)* 204.077		Longitude 94 23 45.7442808
Northing (SFT) 482,572.3088		Ellipsoid Height (M): 175.131
Easting (SFT) 600,422.9084		Geoid Height (M): -28.947
Elevation (SFT)* 669.544		

Convergence Angle -1 23 39.3130757	Scale Factor 0.999936332
Elevation Adjust. Factor 0.9999679746	Combined Adjust. Factor 0.9999043087

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	153	12.65	41.5
MK # 2				
MK # 3				

AZ Mark Station 170021A	Geodetic Azimuth
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM LC 57 AND LC 58 CONVERTED TO NAVD 88 USING CORPSCON AND CHECKED BY GPS USING GAYLOR. **NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED & LEVELS IS DUE TO ROUNDING ERROR).
Ref Mon # 2 OKMU	
Ref Mon # 3 GAYLOR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170021A	Date Monumented 3/7/2012	Monumented By AHTD	County CRAWFORD	Route 59	Job Number: 040623
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	147,600.2854	
Easting (M)	183,619.3263	
Elevation (M)*	203.261	
Northing (SFT)	484,251.9363	
Easting (SFT)	602,424.4064	
Elevation (SFT)*	666.864	

Convergence Angle	-1	23	25.4944152
Scale Factor	0.999936409		
Elevation Adjust. Factor	0.9999681028		
Combined Adjust. Factor	0.9999045138		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARFY
Ref Mon # 2	OKMU
Ref Mon # 3	GAYLOR

Comments
ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM LC 57 AND LC 58 CONVERTED TO NAVD 88 USING CORPSCON AND CHECKED BY GPS USING GAYLOR. **NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED & LEVELS IS DUE TO ROUNDING ERROR). *****REPORTED DESTROYED IN MAY 2016 BY R.E. # 42*****

Location Description
TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 3.60 MILES THE MARK ON THE LEFT. NORTHWEST 23.0 FEET FROM THE CENTERLINE OF STATE HIGHWAY 59 AND SOUTHEAST 2.0 FEET OF A WITNESS POST .THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170021 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND

AZ Mark Station	170021
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170022	Date Monumented 3/7/2012	Monumented By AHTD	County CRAWFORD	Route 59	Job Number: 040623
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	149,704.3526	
Easting (M)	182,590.8747	
Elevation (M)*	212.997	
Northing (SFT)	491,155.0302	
Easting (SFT)	599,050.2281	
Elevation (SFT)*	698.809	

Convergence Angle	-1	23	50.4628093
Scale Factor	0.999936780		
Elevation Adjust. Factor	0.9999665749		
Combined Adjust. Factor	0.9999033570		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 OKMU Ref Mon # 3 GAYLOR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM 15 DWB 1967 CONVERTED TO NAVD 88 USING CORPSCON AND CHECKED BY GPS USING GAYLOR. **NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED & LEVELS IS DUE TO ROUNDING ERROR). </td> </tr> </table>	Comments	ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM 15 DWB 1967 CONVERTED TO NAVD 88 USING CORPSCON AND CHECKED BY GPS USING GAYLOR. **NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED & LEVELS IS DUE TO ROUNDING ERROR).
Comments			
ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM 15 DWB 1967 CONVERTED TO NAVD 88 USING CORPSCON AND CHECKED BY GPS USING GAYLOR. **NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED & LEVELS IS DUE TO ROUNDING ERROR).			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 5.1 MILES TO THE MARK ON THE RIGHT. NORTHEAST 27.0 FEET FROM THE CENTERLINE OF STATE HIGHWAY 59. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170022 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND	

AZ Mark Station	17022
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170022A	Date Monumented 3/7/2012	Monumented By AHTD	County CRAWFORD	Route 59	Job Number: 040623
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	150,158.2169	
Easting (M)	182,133.2115	
Elevation (M)*	231.171	
Northing (SFT)	492,644.0833	
Easting (SFT)	597,548.7114	
Elevation (SFT)*	758.433	

Convergence Angle	-1	24	1.3047317
Scale Factor	0.999936872		
Elevation Adjust. Factor	0.9999637231		
Combined Adjust. Factor	0.9999005974		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF GATE POST	93	10.06	33.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARFY	ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM 15 DWB 1967 CONVERTED TO NAVD 88 USING CORPSCON AND CHECKED BY GPS USING GAYLOR. **NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED & LEVELS IS DUE TO ROUNDING ERROR).
Ref Mon # 2: OKMU	
Ref Mon # 3: GAYLOR	

Vertical Determined By: 3rd Order - Digital Levels	
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	35 39 46.1576304
Longitude	94 24 23.5371816
Ellipsoid Height (M):	202.315
Geoid Height (M):	-28.855

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 5.55 MILES TO THE MARK ON THE RIGHT. NORTHEAST 31.0 FEET FROM THE CENTERLINE OF STATE HIGHWAY 59 AND SOUTHWEST 11.0 FEET OF A WITNESS POST .THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170023A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170023	Date Monumented 3/7/2012	Monumented By AHTD	County CRAWFORD	Route 59	Job Number: 040623
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	151,926.6176	
Easting (M)	179,138.7671	
Elevation (M)*	237.525	
Northing (SFT)	498,445.9112	
Easting (SFT)	587,724.4384	
Elevation (SFT)*	779.281	

Convergence Angle	-1	25	11.5800333
Scale Factor	0.999937272		
Elevation Adjust. Factor	0.9999627259		
Combined Adjust. Factor	0.9999000003		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	263	15.24	50.0
MK # 2	NORTH WEST CORNER OF CONCRETE BUIL	158	27.31	89.6
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 2</td> <td>OKMU</td> </tr> <tr> <td>Ref Mon # 3</td> <td>GAYLOR</td> </tr> </table>	Ref Mon # 1	ARFY	Ref Mon # 2	OKMU	Ref Mon # 3	GAYLOR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM 16 DWB 1967 CONVERTED TO NAVD 88 USING CORPSCON AND CHECKED BY GPS USING GAYLOR. **NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED & LEVELS IS DUE TO ROUNDING ERROR). </td> </tr> </table>	Comments	ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM 16 DWB 1967 CONVERTED TO NAVD 88 USING CORPSCON AND CHECKED BY GPS USING GAYLOR. **NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED & LEVELS IS DUE TO ROUNDING ERROR).
Ref Mon # 1	ARFY								
Ref Mon # 2	OKMU								
Ref Mon # 3	GAYLOR								
Comments									
ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM 16 DWB 1967 CONVERTED TO NAVD 88 USING CORPSCON AND CHECKED BY GPS USING GAYLOR. **NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED & LEVELS IS DUE TO ROUNDING ERROR).									

Location Description	
TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 7.70 MILES THE MARK ON THE LEFT. SOUTHWEST 23.6 FEET FROM THE CENTERLINE OF STATE HIGHWAY 59 AND NORTHEAST 22.0 FEET OF A WITNESS POST .THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170023 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND	

AZ Mark Station	170023
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170023A	Date Monumented 3/7/2012	Monumented By AHTD	County CRAWFORD	Route 59	Job Number: 040623
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	152,134.4342				
Easting (M)	178,832.7926				
Elevation (M)*	235.982				
Northing (SFT)	499,127.7229				
Easting (SFT)	586,720.5871				
Elevation (SFT)*	774.218				

Convergence Angle	-1	25	18.7778927
Scale Factor	0.999937324		
Elevation Adjust. Factor	0.9999629681		
Combined Adjust. Factor	0.9999002944		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WEST END OF GATE	184	21.12	69.3	170023A
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM 16 DWB 1967 CONVERTED TO NAVD 88 USING VERTCOM AND CHECKED BY GPS USING GAYLOR. **NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED & LEVELS IS DUE TO ROUNDING ERROR).
Ref Mon # 2 OKMU	
Ref Mon # 3 GAYLOR	

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 8.0 MILES THE MARK ON THE RIGHT, 23.4 FEET SOUTHWEST FROM THE CENTERLINE OF STATE HIGHWAY 59 AND NORTHEAST 17.2 FEET .THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170023A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND</p>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170024	Date Monumented 3/7/2012	Monumented By AHTD	County CRAWFORD	Route 59	Job Number: 040622
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	153,928.9542	
Easting (M)	176,154.7266	
Elevation (M)*	260.258	
Northing (SFT)	505,015.2439	
Easting (SFT)	577,934.2989	
Elevation (SFT)*	853.864	

Convergence Angle	-1	26	21.7773273
Scale Factor	0.999937812		
Elevation Adjust. Factor	0.9999591586		
Combined Adjust. Factor	0.9998969732		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	170024A
Ref Mon # 2	
Ref Mon # 3	

Comments
ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN JULY 2012 FROM 3RD ORDER USGS BM'S "UE 16 B" & "9 DWB" CONVERTED FROM NGVD 29 TO NAVD 88 USING CORPSCON AND CHECKED WITH GPS FROM 1ST ORDER NGS BM "GAYLOR". **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL GPS STATIC ADJUSTMENT, ANY ELEV. DIFFERENCE IS DUE TO ROUNDING ERROR.

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 10.3 MILES THE MARK ON THE LEFT, 6.7 FEET SOUTHWEST OF EDGE OF PAVEMENT IN A PULL OFF AREA .21.8 FEET SOUTHWEST FROM THE CENTERLINE OF STATE HIGHWAY 59. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170024 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND</p>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170024A	Date Monumented 3/7/2012	Monumented By AHTD	County CRAWFORD	Route 59	Job Number: 040622
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	154,402.1061	
Easting (M)	175,914.7246	
Elevation (M)*	259.039	
Northing (SFT)	506,567.5764	
Easting (SFT)	577,146.8923	
Elevation (SFT)*	849.864	

Convergence Angle	-1	26	27.6061857
Scale Factor	0.999937957		
Elevation Adjust. Factor	0.9999593500		
Combined Adjust. Factor	0.9998973095		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	END OF FENCE	22	7.01	23.0
MK # 2	HEAD WALL	312	14.23	46.7
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN JULY 2012 FROM 3RD ORDER USGS BM'S "UE 16 B" & "9 DWB" CONVERTED FROM NGVD 29 TO NAVD 88 USING CORPSCON AND CHECKED WITH GPS FROM 1ST ORDER NGS BM "GAYLOR". **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL GPS STATIC ADJUSTMENT, ANY ELEV. DIFFERENCE IS DUE TO ROUNDING ERROR.
Ref Mon # 2	
Ref Mon # 3	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	35 41 58.8190560
Longitude	94 28 34.9578264
Ellipsoid Height (M):	230.289
Geoid Height (M):	-28.750

Location Description
<p>TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 10.6 MILES THE MARK ON THE RIGHT, SOUTHEAST OF THE CENTER LINE OF A DRIVE 20.3 FEET. 21.0 FEET NORTHEAST FROM THE CENTERLINE OF STATE HIGHWAY 59. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170024A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170025	Date Monumented 3/7/2012	Monumented By AHTD	County CRAWFORD	Route 59	Job Number: 040622
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	158,941.6518				
Easting (M)	176,300.8030				
Elevation (M)*	308.416				
Northing (SFT)	521,461.0693				
Easting (SFT)	578,413.5512				
Elevation (SFT)*	1,011.862				

Convergence Angle	-1	26	21.3114795
Scale Factor	0.999939649		
Elevation Adjust. Factor	0.9999516018		
Combined Adjust. Factor	0.9998912537		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 170025A Ref Mon # 2 Ref Mon # 3 	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN JULY 2012 FROM 3RD ORDER USGS BM "UE 7 A" CONVERTED FROM NGVD 29 TO NAVD 88 USING CORPSCON AND CHECKED WITH GPS FROM 1ST ORDER NGS BM "GAYLOR". **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL GPS STATIC ADJUSTMENT, ANY ELEV. DIFFERENCE IS DUE TO ROUNDING ERROR. </td> </tr> </table>	Comments	ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN JULY 2012 FROM 3RD ORDER USGS BM "UE 7 A" CONVERTED FROM NGVD 29 TO NAVD 88 USING CORPSCON AND CHECKED WITH GPS FROM 1ST ORDER NGS BM "GAYLOR". **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL GPS STATIC ADJUSTMENT, ANY ELEV. DIFFERENCE IS DUE TO ROUNDING ERROR.
Comments			
ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN JULY 2012 FROM 3RD ORDER USGS BM "UE 7 A" CONVERTED FROM NGVD 29 TO NAVD 88 USING CORPSCON AND CHECKED WITH GPS FROM 1ST ORDER NGS BM "GAYLOR". **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL GPS STATIC ADJUSTMENT, ANY ELEV. DIFFERENCE IS DUE TO ROUNDING ERROR.			

Location Description	
TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 13.7 MILES THE MARK ON THE LEFT, EAST OF THE OZARK NATIONAL FORREST SIGN 21.4 FEET, WEST OF EDGE OF PAVEMENT 3.2 FEET, 17.3 FEET WEST FROM THE CENTERLINE OF STATE HIGHWAY 59. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170025 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170025A	Date Monumented 3/7/2012	Monumented By AHTD	County CRAWFORD	Route 59	Job Number: 040622
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	159,355.6021	
Easting (M)	176,388.4752	
Elevation (M)*	316.441	
Northing (SFT)	522,819.1712	
Easting (SFT)	578,701.1891	
Elevation (SFT)*	1,038.191	

Convergence Angle	-1	26	19.5223862
Scale Factor	0.999939829		
Elevation Adjust. Factor	0.9999503425		
Combined Adjust. Factor	0.9998901745		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 14.0 MILES THE MARK ON THE RIGHT, 17.3 FEET EAST FROM THE CENTERLINE OF STATE HIGHWAY 59 AND WEST OF A WITNESS POST 22.7 FEET. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170025A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 170025</p> <p>Ref Mon # 2 </p> <p>Ref Mon # 3 </p>	<p style="text-align: center;">Comments</p> <p>ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN JULY 2012 FROM 3RD ORDER USGS BM "UE 7 A" CONVERTED FROM NGVD 29 TO NAVD 88 USING CORPSCON AND CHECKED WITH GPS FROM 1ST ORDER NGS BM "GAYLOR". **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL GPS STATIC ADJUSTMENT, ANY ELEV. DIFFERENCE IS DUE TO ROUNDING ERROR.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170026	Date Monumented 11/13/2012	Monumented By AHTD	County CRAWFORD	Route 8th STREET	Job Number: BB0407, 03D04, 040721
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	124,338.2836	0.0030	
Easting (M)	188,536.2036	0.0030	
Elevation (M)*	131.270		

Northing (SFT)	407,933.1854		
Easting (SFT)	618,555.8613		
Elevation (SFT)*	430.674		

Convergence Angle	-1	21	19.0698019
Scale Factor	0.999939468		
Elevation Adjust. Factor	0.9999793999		
Combined Adjust. Factor	0.9999188692		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	25	53.5669968
Longitude	94	19	44.7349440
Ellipsoid Height:	101.521		
Grid Northing (Meters)	124,338.2865		
Grid Easting (Meters)	188,536.1971		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 540 AND STATE HIGHWAY 64, NORTHEAST OF FORT SMITH, GO WEST ON HIGHWAY 64 0.6 MILES TO SOUTH 28th STREET AND TURN LEFT (SOUTH) AND GO 0.7 MILES TO THE MARK ON THE RIGHT AT THE SOUTHWEST CORNER OF THE 28th STREET BRIDGE OVER I 540. THE MARK IS 7.2 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF THE BRIDGE, 18 FEET WEST OF THE CENTERLINE OF THE STREET AND WEST 0.8 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 CAP STAMPED "170026 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance								
			Meters	Feet							
MK # 1					<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">AZ Mark Station</td> <td>170026A</td> </tr> <tr> <td>Geodetic Azimuth</td> <td></td> </tr> <tr> <td>Grid Azimuth</td> <td></td> </tr> </table>	AZ Mark Station	170026A	Geodetic Azimuth		Grid Azimuth	
AZ Mark Station	170026A										
Geodetic Azimuth											
Grid Azimuth											
MK # 2											
MK # 3											

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>ARFY (ARFY)</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHR (OKHV)</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARLR, SAL5 (ARRS)</td> </tr> </table>	Ref Mon # 1	ARFY (ARFY)	Ref Mon # 2	ARHR (OKHV)	Ref Mon # 3	ARLR, SAL5 (ARRS)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 5px;">Comments</td> </tr> <tr> <td style="padding: 5px;">ELEV. ESTABLISHED IN NOV. 2012 BY S5112 FROM NGS 1ST ORDER BM "Q 28" USING DIGITAL LEVELS FOR JOB # BB0407.</td> </tr> </table>	Comments	ELEV. ESTABLISHED IN NOV. 2012 BY S5112 FROM NGS 1ST ORDER BM "Q 28" USING DIGITAL LEVELS FOR JOB # BB0407.
Ref Mon # 1	ARFY (ARFY)								
Ref Mon # 2	ARHR (OKHV)								
Ref Mon # 3	ARLR, SAL5 (ARRS)								
Comments									
ELEV. ESTABLISHED IN NOV. 2012 BY S5112 FROM NGS 1ST ORDER BM "Q 28" USING DIGITAL LEVELS FOR JOB # BB0407.									

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170026A	Date Monumented 11/13/2012	Monumented By AHTD	County CRAWFORD	Route 8th STREET	Job Number: BB0407, 03D04, 040721
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	123,832.0734	0.0030	
Easting (M)	188,503.5027	0.0030	
Elevation (M)*	123.986		

Northing (SFT)	406,272.3941		
Easting (SFT)	618,448.5751		
Elevation (SFT)*	406.778		

Convergence Angle	-1	21	19.5477704
Scale Factor	0.999939682		
Elevation Adjust. Factor	0.9999805429		
Combined Adjust. Factor	0.9999202261		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	25	37.1201088
Longitude	94	19	45.5562660
Ellipsoid Height:	94.220		
Grid Northing (Meters)	123,832.0720		
Grid Easting (Meters)	188,503.4980		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 540 AND STATE HIGHWAY 64, NORTHEAST OF FORT SMITH, GO WEST ON HIGHWAY 64 0.6 MILES TO SOUTH 28th STREET AND TURN LEFT (SOUTH) AND GO 1.0 MILES TO THE MARK ON THE LEFT, 24.2 FEET SOUTH OF THE CENTERLINE OF A CONC DRIVE AND 38 FEET EAST OF THE CENTERLINE OF 28th STREET. THE MARK IS A STANDARD 2 1/2 CAP STAMPED "170026A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	FIBER OPTIC CABLE MARKER	351	19.35	63.5	170026
MK # 2	COMBINATION POLE	189	30.08	98.7	
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY (ARFY)</p> <p>Ref Mon # 2 ARHR (OKHV)</p> <p>Ref Mon # 3 ARLR, SAL5 (ARRS)</p>	<p style="text-align: center;">Comments</p> <p>ELEV. ESTABLISHED IN NOV. 2012 BY S5112 FROM NGS 1ST ORDER BM "Q 28" USING DIGITAL LEVELS FOR JOB # BB0407.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170027	Date Monumented 11/4/2015	Monumented By AHTD	County CRAWFORD	Route 59	Job Number: 03D04, 040721, 040872
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	124,996.6663	0.0030			
Easting (M)	186,421.6610	0.0030			
Elevation (M)*	133.882				
Northing (SFT)	410,093.2294				
Easting (SFT)	611,618.3995				
Elevation (SFT)*	439.245				

Convergence Angle	-1	22	8.2027048
Scale Factor	0.999939219		
Elevation Adjust. Factor	0.9999789900		
Combined Adjust. Factor	0.9999182103		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RAILROAD SIGNAL POLE	179	26.90	88.3
MK # 2	MANHOLE	338	33.60	110.2
MK # 3	SOUTHWEST CORNER OF RR CONTROL BO	51	28.00	91.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BY S5112 IN NOV. 2015 FOR JOB # 040721 USING DIGITAL LEVELS FROM 2ND ORDER NGS BM R 28. THIS MARK REPLACES GPS # 170006 THAT WAS FOUND DESTROYED BY S5112 IN NOV. 2015. *****UPDATE D ELEV. IN SEPT. 2021 FOR JOB #040872. S5103 RAN DIGITAL LEVELS FROM 1ST ORDER NGS PUBLISHED BM R 28. PREVIOUS ELEV. FROM
Ref Mon # 2 ARHR	
Ref Mon # 3 ARLR, SAL5	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	35 26 13.2939384
Longitude	94 21 9.1701144
Ellipsoid Height (M):	104.045 0.0080
Geoid Height (M):	-29.837 0.0080

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 (MAIN STREET) AND FAYETTEVILLE ROAD (HIGHWAY 59), IN VAN BUREN, GO NORTH FROM MAIN STREET ON FAYETTEVILLE ROAD 100 FEET TO THE MARK ON THE RIGHT, 36.6 FEET EAST OF THE CENTERLINE OF FAYETTEVILLE ROAD, 9.4 FEET NORTH OF THE NORTH RR RAIL, AND 8.5 EAST OF THE EAST EDGE OF THE SIDEWALK. THE MARK IS A STANDARD 2 1/2 IN CAP STAMPED "170027 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170028	Date Monumented 2/13/2017	Monumented By AHTD	County Crawford	Route US-71	Job Number: 040684
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	135,247.1553	0.0020	
Easting (M)	198,620.4190	0.0020	
Elevation (M)*	243.636		
Northing (SFT)	443,723.3753		
Easting (SFT)	651,640.4913		
Elevation (SFT)*	799.330		

Convergence Angle	-1	17	32.1550328
Scale Factor	0.999936350		
Elevation Adjust. Factor	0.9999617670		
Combined Adjust. Factor	0.9998981194		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	24	3.96	13.0
MK # 2	GAS METER	170	6.71	22.0
MK # 3	NW COR OF BU	153	20.73	68.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM U 311 BY S5112 IN MARCH 2017 FOR JOB # 040684. U 311 PUBLISHED ELEV. WAS VERIFIED BY CONSTRAINING ORTHOMETRIC HTS. ON AHTD CORS SITES ARFY, ARFS & ARHR IN A TEST STATIC GPS NETWORK ADJUSTMENT AND MISSED THE PUBLISHED ELEV. BY +0.0113'
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170028-1	Date Monumented 2/23/2017	Monumented By AHTD	County CRAWFORD	Route N CLUB	Job Number: 040373,040748
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	116,577.1323 0.0010
Easting (M)	192,790.2802 0.0010
Elevation (M)*	121.465
Northing (SFT)	382,470.1416
Easting (SFT)	632,512.7776
Elevation (SFT)*	398.508

Convergence Angle	-1	19	36.8053548
Scale Factor	0.999943383		
Elevation Adjust. Factor	0.9999809385		
Combined Adjust. Factor	0.9999243226		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	STAMPED 170028 (already a 170028 on Job # 040684) *****3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT. *****PUBLISH
Ref Mon # 2 ARHR	
Ref Mon # 3 OKHV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170028A	Date Monumented 2/13/2017	Monumented By AHTD	County Crawford	Route US-71	Job Number: 040684
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	135,737.6788	0.0020	
Easting (M)	198,612.5646	0.0020	
Elevation (M)*	255.423		
Northing (SFT)	445,332.7012		
Easting (SFT)	651,614.7224		
Elevation (SFT)*	837.999		

Convergence Angle	-1	17	32.5919801
Scale Factor	0.999936283		
Elevation Adjust. Factor	0.9999599175		
Combined Adjust. Factor	0.9998962030		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	CP		197	10.67	35.0
MK # 2	SE COR OF TELEPHONE BU		313	20.12	66.0
MK # 3	CP		4	24.99	82.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM U 311 BY S5112 IN MARCH 2017 FOR JOB # 040684. U 311 PUBLISHED ELEV. WAS VERIFIED BY CONSTRAINING ORTHOMETRIC HTS. ON AHTD CORS SITES ARFY, ARFS & ARHR IN A TEST STATIC GPS NETWORK ADJUSTMENT AND MISSED THE PUBLISHED ELEV. BY +0.0113'</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM U 311 BY S5112 IN MARCH 2017 FOR JOB # 040684. U 311 PUBLISHED ELEV. WAS VERIFIED BY CONSTRAINING ORTHOMETRIC HTS. ON AHTD CORS SITES ARFY, ARFS & ARHR IN A TEST STATIC GPS NETWORK ADJUSTMENT AND MISSED THE PUBLISHED ELEV. BY +0.0113'
Comments			
ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM U 311 BY S5112 IN MARCH 2017 FOR JOB # 040684. U 311 PUBLISHED ELEV. WAS VERIFIED BY CONSTRAINING ORTHOMETRIC HTS. ON AHTD CORS SITES ARFY, ARFS & ARHR IN A TEST STATIC GPS NETWORK ADJUSTMENT AND MISSED THE PUBLISHED ELEV. BY +0.0113'			

Location Description	
FROM JCT OF US-71 & SR-282 OFF RUDY EXIT GO S ON US-71 0.1MI TO STA ON R. 55' W OF CTR OF US-71. 24' S OF DW. IN FRONT OF TELEPHONE BU. STA IS A 2 1/2" ALUM CAP STAMPED "170028A 2017" SET BELOW SURFACE.	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	35 32 10.9239324
Longitude	94 13 15.5300772
Ellipsoid Height (M):	226.150 0.0030
Geoid Height (M):	-29.257 0.0030

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170029	Date Monumented 2/23/2017	Monumented By AHTD	County CRAWFORD	Route STVILLE	Job Number: 040373,040748
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	118,082.1466	0.0010	
Easting (M)	194,677.5219	0.0010	
Elevation (M)*	121.183		
Northing (SFT)	387,407.8426		
Easting (SFT)	638,704.5031		
Elevation (SFT)*	397.580		

Convergence Angle	-1	18	54.1102879
Scale Factor	0.999942475		
Elevation Adjust. Factor	0.9999809828		
Combined Adjust. Factor	0.9999234589		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>OKHV</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARFY	Ref Mon # 2	ARHR	Ref Mon # 3	OKHV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> 3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT. *****PUBLISH ED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST </td> </tr> </table>	Comments	3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT. *****PUBLISH ED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARFY										
Ref Mon # 2	ARHR										
Ref Mon # 3	OKHV										
Comments											
3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT. *****PUBLISH ED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST											

Location Description

TO REACH THE STATION MARK FROM STATE HIGHWAY 59 AND STATE HIGHWAY 22, IN BARLING, GO NORTH ON HIGHWAY 59 3.4 MILES TO GUN CLUB ROAD/LEVEE ROAD AND TURN RIGHT (EAST) AND GO 2.5 MILES TO WESTVILLE ROAD AND TURN LEFT (NORTH) AND GO 1 MILE TO THE MARK ON THE LEFT, WEST 13.5 FEET OF THE CENTERLINE OF THE ROAD AND WEST 1 FOOT OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2017 170029" ON TOP OF A 4 FOOT REBAR DRIVEN 1 FOOT BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170029A	Date Monumented 2/23/2017	Monumented By AHTD	County CRAWFORD	Route STVILLE	Job Number: 040373,040748
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	118,497.8380	0.0010	
Easting (M)	194,691.0366	0.0010	
Elevation (M)*	120.880		
Northing (SFT)	388,771.6568		
Easting (SFT)	638,748.8426		
Elevation (SFT)*	396.586		

Convergence Angle	-1	18	54.0187288
Scale Factor	0.999942242		
Elevation Adjust. Factor	0.9999810304		
Combined Adjust. Factor	0.9999232735		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY ANCHOR	120	22.10	72.5
MK # 2	GUY ANCHOR	92	2.89	9.5
MK # 3	GAS VLAVE	103	19.69	64.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT. *****PUBLISH ED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST
Ref Mon # 2 ARHR	
Ref Mon # 3 OKHV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170030	Date Monumented 2/23/2017	Monumented By AHTD	County CRAWFORD	Route DRNHILI	Job Number: 040373,040748
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	120,040.3749	0.0010	
Easting (M)	197,194.8980	0.0010	
Elevation (M)*	118.095		
Northing (SFT)	393,832.4633		
Easting (SFT)	646,963.5945		
Elevation (SFT)*	387.449		

Convergence Angle	-1	17	57.1109144
Scale Factor	0.999941382		
Elevation Adjust. Factor	0.9999814674		
Combined Adjust. Factor	0.9999228505		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	END OF GUARD RAIL	171	0.90	3.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT. *****PUBLISH ED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST
Ref Mon # 2 ARHR	
Ref Mon # 3 OKHV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170031	Date Monumented 2/23/2017	Monumented By AHTD	County CRAWFORD	Route ELM BLVD	Job Number: 040373,040748
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	122,789.1411	0.0010			
Easting (M)	197,744.4467	0.0010			
Elevation (M)*	132.569				
Northing (SFT)	402,850.7071				
Easting (SFT)	648,766.5722				
Elevation (SFT)*	434.937				

Convergence Angle	-1	17	45.8752359		
Scale Factor	0.999940047				
Elevation Adjust. Factor	0.9999791960				
Combined Adjust. Factor	0.9999192443				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	FENCE CORNER	55		2.13	7.0
MK # 2	COMBINATION POLE	165		5.91	19.4
MK # 3	GAS METER	329		17.03	55.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARFY	3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT. *****PUBLISH ED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST
Ref Mon # 2: ARHR	
Ref Mon # 3: OKHV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170031A	Date Monumented 2/23/2017	Monumented By AHTD	County CRAWFORD	Route ELM BLVD	Job Number: 040373,040748
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	122,765.9145 0.0010
Easting (M)	198,145.4081 0.0010
Elevation (M)*	131.937
Northing (SFT)	402,774.5045
Easting (SFT)	650,082.0597
Elevation (SFT)*	432.865

Convergence Angle	-1	17	36.6164257
Scale Factor	0.999940053		
Elevation Adjust. Factor	0.9999792951		
Combined Adjust. Factor	0.9999193494		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	285	2.16	7.1
MK # 2	COMBINATION POLE WITH LIGHT	34	19.11	62.7
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT. *****PUBLISH ED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST
Ref Mon # 2 ARHR	
Ref Mon # 3 OKHV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170032	Date Monumented 3/2/2017	Monumented By AHTD	County CRAWFORD	Route 162	Job Number: 040373,040748
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	126,146.3289 0.0010
Easting (M)	198,684.7671 0.0010
Elevation (M)*	123.328
Northing (SFT)	413,865.0807
Easting (SFT)	651,851.6067
Elevation (SFT)*	404.617

Convergence Angle	-1	17	25.9342869
Scale Factor	0.999938668		
Elevation Adjust. Factor	0.9999806463		
Combined Adjust. Factor	0.9999193154		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	END OF GUARD RAIL	235	1.22	4.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 ARHR Ref Mon # 3 OKHV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> PUBLISHED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST ORDER NGS BM L 28 MONUMENTED BY USC & GS </td> </tr> </table>	Comments	PUBLISHED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST ORDER NGS BM L 28 MONUMENTED BY USC & GS
Comments			
PUBLISHED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST ORDER NGS BM L 28 MONUMENTED BY USC & GS			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 162 AND STATE HIGHWAY 64B, IN ALMA, GO WEST ON HIGHWAY 162 FOR 2.4 MILES TO THE MARK ON THE LEFT, 27 FEET EAST OF THE CENTERLINE OF THE HIGHWAY AND 181 FEET NORTH OF THE NORTH END OF A BRIDGE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 170032" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	35 26 59.8242552
Longitude	94 13 4.0887588
Ellipsoid Height (M):	93.663 0.0020
Geoid Height (M):	-29.646 0.0020

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170033	Date Monumented 2/13/2018	Monumented By ARDOT	County CRAWFORD	Route I-40	Job Number: 040714, 040872
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	127,851.9023	0.0040			
Easting (M)	185,993.3323	0.0040			
Elevation (M)*	158.190				
Northing (SFT)	419,460.7828				
Easting (SFT)	610,213.1244				
Elevation (SFT)*	518.994				

Convergence Angle	-1	22	19.6598536
Scale Factor	0.999938175		
Elevation Adjust. Factor	0.9999751755		
Combined Adjust. Factor	0.9999133520		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	END OF GUARD RAIL	83	13.31	43.7
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARFY	ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM J 11 BY S5112 IN MARCH 2018 FOR JOB #040714 AND VERIFIED USING NGS 1ST ORDER BM Q 28 IN STATIC NETWORK ADJ. *****UPDATE D ELEV. IN SEPT. 2021 FOR JOB #040872. S5103 RAN DIGITAL LEVELS FROM 1ST ORDER NGS PUBLISHED BM R 28. PREVIOUS ELEV. FROM 1ST ORDER BM J 11 WAS 518.9919
Ref Mon # 2: ARRV	
Ref Mon # 3: OKHV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170034	Date Monumented 11/11/2018	Monumented By AHTD	County CRAWFORD	Route SR-220	Job Number: 040779
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	149,086.8943	0.0020			
Easting (M)	187,290.1277	0.0010			
Elevation (M)*					
Northing (SFT)	489,129.2524				
Easting (SFT)	614,467.6940				
Elevation (SFT)*					

Convergence Angle	-1	22	1.4313059
Scale Factor	0.999936680		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	24" CMP	243	9.88	32.4	170034A
MK # 2	FENCE CORNER	283	21.58	70.8	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARFY	STATIC GPS DERIVED ELEVATION BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARFY, ARFS & ARRV and ON 2ND ORDER NGS BM's B 28 & Z 311 DURING SIMULTANEOUS OBSERVATIONS.
Ref Mon # 2: ARRV	
Ref Mon # 3: OKHV, ARFS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170034A	Date Monumented 11/11/2018	Monumented By AHTD	County CRAWFORD	Route SR-220	Job Number: 040779
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	149,460.6869	0.0020			
Easting (M)	187,563.2285	0.0010			
Elevation (M)*					
Northing (SFT)	490,355.6036				
Easting (SFT)	615,363.6922				
Elevation (SFT)*					

Convergence Angle	-1	21	55.3210648
Scale Factor	0.999936755		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	24" BLACK WALNUT	210	21.49	70.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	STATIC GPS DERIVED ELEVATION BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARFY, ARFS & ARRV and ON 2ND ORDER NGS BM's B 28 & Z 311 DURING SIMULTANEOUS OBSERVATIONS.
Ref Mon # 2 ARRV	
Ref Mon # 3 OKHV, ARFS	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12B
Latitude	35 39 27.7827012
Longitude	94 20 47.0328756
Ellipsoid Height (M):	192.474 0.0050
Geoid Height (M):	-28.890 0.0050

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF SR-59 AND SR-220 N OF VAN BUREN, GO E ON SR-220 5.35 MILES TO SHAMROCK LANE, TAKE SHAMROCK LANE 0.09 MILES THE STATION ON LEFT. 14.0' NW OF THE C/L OF SHAMROCK LANE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "170034A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170035	Date Monumented 11/4/2019	Monumented By ARDOT	County CRAWFORD	Route 64	Job Number: 040788
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	130,999.3793	0.0020			
Easting (M)	205,245.2266	0.0020			
Elevation (M)*					
Northing (SFT)	429,787.1303				
Easting (SFT)	673,375.3809				
Elevation (SFT)*					

Convergence Angle	-1	14	57.0227856
Scale Factor	0.999937142		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	62	6.40	21.0
MK # 2	CENTER OF SIGN "ESTATES"	185	4.30	14.1
MK # 3	SS MANHOLE	295	18.90	62.0

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARDQ</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARFS</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARFY, ARRV</td> </tr> </table>	Ref Mon # 1	ARDQ	Ref Mon # 2	ARFS	Ref Mon # 3	ARFY, ARRV	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV </td> </tr> </table>	Comments	STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV
Ref Mon # 1	ARDQ								
Ref Mon # 2	ARFS								
Ref Mon # 3	ARFY, ARRV								
Comments									
STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV									

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid18

Latitude 35 29 41.9813556

Longitude 94 8 48.1827192

Ellipsoid Height (M): 99.685 0.0060

Geoid Height (M): -29.430 0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 215, IN MULBERRY, GO WEST ON HIGHWAY 64 6.1 MILES TO THE MARK ON THE RIGHT, NORTH 40' OF THE C/L OF THE HIGHWAY AND 35.6' EAST OF THE C/L OF HORIZON LN. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "170035 2019" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170035A	Date Monumented 11/4/2019	Monumented By ARDOT	County CRAWFORD	Route 64	Job Number: 040788
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	130,949.4194	0.0020			
Easting (M)	205,703.8851	0.0020			
Elevation (M)*					
Northing (SFT)	429,623.2201				
Easting (SFT)	674,880.1630				
Elevation (SFT)*					

Convergence Angle	-1	14	46.4102981
Scale Factor	0.999937152		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 215, IN MULBERRY, GO WEST ON HIGHWAY 64 5.8 MILES TO THE MARK ON THE LEFT, SOUTH 29' OF THE C/L OF THE HIGHWAY AND 14.6' EAST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "170035A 2019" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE W/ 3 GUYS & LIGHT	244	14.33	47.0	AZ Mark Station 170035
MK # 2	CENTER OF GATE	216	8.84	29.0	Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARDQ</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARFS</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARFY, ARRV</td> </tr> </table>	Ref Mon # 1	ARDQ	Ref Mon # 2	ARFS	Ref Mon # 3	ARFY, ARRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Comments</td> </tr> <tr> <td> STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV </td> </tr> </table>	Comments	STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV
Ref Mon # 1	ARDQ								
Ref Mon # 2	ARFS								
Ref Mon # 3	ARFY, ARRV								
Comments									
STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV									

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170036	Date Monumented 11/4/2019	Monumented By ARDOT	County CRAWFORD	Route 64	Job Number: 040788
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	132,589.5907 0.0020
Easting (M)	211,329.0943 0.0020
Elevation (M)*	

Northing (SFT)	435,004.3488	
Easting (SFT)	693,335.5369	
Elevation (SFT)*		

Convergence Angle	-1	12	37.3600959
Scale Factor	0.999936759		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
	Description	Azimuth	Distance
			Meters Feet
MK # 1	WATER METER	56	
MK # 2	COMBINATION POLE	279	26.82 88.0
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV
Ref Mon # 2 ARFS	
Ref Mon # 3 ARFY, ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170036A	Date Monumented 11/4/2019	Monumented By ARDOT	County CRAWFORD	Route 64	Job Number: 040788
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	132,572.3118 0.0020
Easting (M)	211,720.6737 0.0020
Elevation (M)*	
Northing (SFT)	434,947.6596
Easting (SFT)	694,620.2436
Elevation (SFT)*	

Convergence Angle	-1	12	28.3108280
Scale Factor	0.999936761		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	75	11.30	37.1
MK # 2	ALLIE MCBRIDE HEAD STONE	324	3.57	11.7
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARDQ Ref Mon # 2 ARFS Ref Mon # 3 ARFY, ARRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV </td> </tr> </table>	Comments	STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV
Comments			
STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV			

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid18

Latitude 35 30 37.5149916

Longitude 94 4 32.6195976

Ellipsoid Height (M): 101.418 0.0050

Geoid Height (M): -29.310 0.0050

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 215, IN MULBERRY, GO WEST ON HIGHWAY 64 1.6 MILES TO THE MARK ON THE RIGHT, NORTH 33' OF THE C/L OF THE HIGHWAY, NORTH 4.7' OF THE SOUTH SIDE OF A RETAINING WALL AND 15.6' EAST OF THE CENTER OF THE STEPS LEADING INTO COL JACKSON PLEASANT KING CEMETERY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "170036A 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170037	Date Monumented 11/4/2019	Monumented By ARDOT	County CRAWFORD	Route 64	Job Number: 040788
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	131,625.7760	0.0020			
Easting (M)	214,976.0982	0.0020			
Elevation (M)*					
Northing (SFT)	431,842.2334				
Easting (SFT)	705,300.7488				
Elevation (SFT)*					

Convergence Angle	-1	11	12.6957370
Scale Factor	0.999936948		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARDQ	STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV
Ref Mon # 2: ARFS	
Ref Mon # 3: ARFY, ARRV	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid18
Latitude	35 30 9.0148356
Longitude	94 2 22.6742388
Ellipsoid Height (M):	92.339 0.0060
Geoid Height (M):	-29.311 0.0060

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 215, IN MULBERRY, GO EAST ON HIGHWAY 64 0.65 MILES TO THE MARK ON THE LEFT, NORTH 20.4' OF THE C/L OF THE HIGHWAY AND 12.3' NORTHWEST OF THE NORTHWEST CORNER OF A BRIDGE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "170037 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170037A	Date Monumented 11/4/2019	Monumented By ARDOT	County CRAWFORD	Route 64	Job Number: 040788
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	131,627.2256	0.0020			
Easting (M)	214,459.7416	0.0020			
Elevation (M)*					
Northing (SFT)	431,846.9893				
Easting (SFT)	703,606.6689				
Elevation (SFT)*					

Convergence Angle	-1	11	24.6170598
Scale Factor	0.999936950		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	127	18.59	61.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARDQ	STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV
Ref Mon # 2: ARFS	
Ref Mon # 3: ARFY, ARRV	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid18
Latitude	35 30 8.7143256
Longitude	94 2 43.1611620
Ellipsoid Height (M):	91.340 0.0060
Geoid Height (M):	-29.317 0.0060

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 215, IN MULBERRY, GO EAST ON HIGHWAY 64 0.35 MILES TO THE MARK ON THE RIGHT, SOUTH 23.6' OF THE C/L OF THE HIGHWAY AND 120' EAST OF THE CENTER OF A HEADWALL. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "170037A 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 178 FSGIS	Date Monumented 1/1/1994	Monumented By CITY OF FORT SM	County SEBASTIAN	Route 71	Job Number: 001747
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 105,223.3852		Latitude 35 15 30.9287520
Easting (M) 185,248.0640		Longitude 94 21 36.8982288
Elevation (M)* 155.409		Ellipsoid Height (M): 125.052
		Geoid Height (M): -30.349

Northing (SFT) 345,220.3896		
Easting (SFT) 607,768.0233		
Elevation (SFT)* 509.871		

Convergence Angle -1 22 24.3376704		
Scale Factor 0.999951993		
Elevation Adjust. Factor 0.9999756119		
Combined Adjust. Factor 0.9999276060		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-540, US HIGHWAY 71B AND US HIGHWAY 71, LOCATED ON THE SOUTH SIDE OF FORT SMITH, GO SOUTHEAST ON US HIGHWAY 71 FOR 7.05 KM (4.38 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.57 METERS SOUTH-SOUTHWEST OF THE CENTER OF THE SOUTH BOUND LANE OF US HIGHWAY 71 AND 0.39 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A 102mm BRASS CAP SET ON TOP OF A 203mm ROUND CONCRETE MONUMENT STAMPED "CITY OF FORT SMITH MON 178 RLS MONUMENTED 1994" Used as SU 101 in job 001747

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station L 298
MK # 2					Geodetic Azimuth 125 38 44.17402
MK # 3					Grid Azimuth 127 01 08.46964

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 FS 2</p> <p>Ref Mon # 2 Q 299</p> <p>Ref Mon # 3 GAYLOR</p>	<p style="text-align: center;">Comments</p> <p>THE MONUMENT IS PART OF THE FORT SMITH GEOGRAPHIC INFORMATION SYSTEM (FSGIS).</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180001	Date Monumented 4/16/1998	Monumented By AHTD	County CRITTENDEN	Route I40	Job Number: B0108,110635,110651,110650
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	94,313.4713	0.0010
Easting (M)	565,201.1318	0.0020
Elevation (M)*	64.884	0.0008
Northing (SFT)	309,426.7804	
Easting (SFT)	1,854,330.7132	
Elevation (SFT)*	212.872	

Convergence Angle	1	3	19.1765673
Scale Factor	0.999961941		
Elevation Adjust. Factor	0.9999898178		
Combined Adjust. Factor	0.9999517591		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (2011)		
Latitude	35	10	11.0569440
Longitude	90	11	11.0736960
Ellipsoid Height:	37.636		
Grid Northing (Meters)	94,313.4715		
Grid Easting (Meters)	565,201.1299		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FLAG POLE	313	18.25	59.9
MK # 2	0.48 METER ASH TREE	81	22.70	74.5
MK # 3	EAST END OF A 0.70 METER CMP	282	45.60	149.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB (DAWSEY)	Digital Levels based on NGS 1st Order Mark N173 and checked on Y173 through jobs 110422-110488-110499. Y173 did not check within 0.20'. Crew S5112-Job 110499, S5103-Job 110422, S5111-Job 110488. *****Superceded elevation:213.078'. New elevation by digital level from 180001A by crew S5113 in June 2017 on job 110651. Position updated by crew S5113 in June 2017 during job 110650. *****S5103 RE-
Ref Mon # 2 AROC (MEMPHIS 2 CORS)	
Ref Mon # 3 ARWM, ARWY (ZME B)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180001A	Date Monumented 4/16/1998	Monumented By AHTD	County CRITTENDEN	Route I-55	Job Number: 03,110488,BB0108,110651, 11
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	94,360.1913 0.0010
Easting (M)	564,763.4889 0.0010
Elevation (M)*	69.507
Northing (SFT)	309,580.0610
Easting (SFT)	1,852,894.8798
Elevation (SFT)*	228.041

Convergence Angle	1 3 9.1339739
Scale Factor	0.999961880
Elevation Adjust. Factor	0.9999890922
Combined Adjust. Factor	0.9999509726

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35 10 12.8350848		
Longitude	90 11 28.3309908		
Ellipsoid Height:	42.443		
Grid Northing (Meters)	94,360.2261		
Grid Easting (Meters)	564,763.5120		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MILE MARKER 7	111	45.11	148.0
MK # 2	PUNCH IN TOP OF A GUARD RAIL POST	322	17.53	57.5
MK # 3	PUNCH IN TOP OF A GUARD RAIL POST	29	19.44	63.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB (DAWSEY)	Digital Levels based on NGS 1st Order Mark N173 and checked on Y173 through jobs 110422-110488-110499. Y173 did not check within 0.20'. Crew S5112-Job 110499, S5103-Job 110422, S5111-Job 110488. *****S5103 RE-TRACKED IN JULY 2022 AND RE-RAN DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 FOR JOB #110738. PREVIOUS GEOID HT. WAS -27.191m. SUPERCEDED ELEV. WAS 69.5570m
Ref Mon # 2 AROC (MEMPHIS 2 CORS)	
Ref Mon # 3 ARWM, ARWY (ZME B)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180002	Date Monumented 1/16/1998	Monumented By AHTD	County CRITTENDEN	Route 77	Job Number: 110303,110509
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	98,031.4622
Easting (M)	564,803.5060
Elevation (M)*	66.847
Northing (SFT)	321,624.8889
Easting (SFT)	1,853,026.1693
Elevation (SFT)*	219.314

Convergence Angle	1	3	11.6058877
Scale Factor	0.999957902		
Elevation Adjust. Factor	0.9999895096		
Combined Adjust. Factor	0.9999474121		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 77, LOCATED IN MARION, GO SOUTH ON STATE HIGHWAY 77 FOR 1.13 KM (0.70 MI) TO A CURVE TO THE LEFT AND A RAILROAD CROSSING, GO LEFT AND SOUTHEAST ON STATE HIGHWAY 77 FOR 0.40 KM (0.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 0.50 METERS SOUTHWEST OF A WITNESS POST, 14.400 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 77 AND 50.233 METERS SOUTHEAST OF THE CENTER OF A PAVED ROAD. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180002 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	COMBINATION POLE		197	22.60	74.1
MK # 2	CENTER OF STORM DRAIN		289	19.08	62.6
MK # 3	WEST END OF HEADWALL=TBM 914		126	78.73	258.3

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	DAWSEY	<p>3-Wire Levels ran in June 1998 by crew S5101 from 1st Order NGS mark C 5 (Elev.=225.08)</p>
Ref Mon # 2	MEMPHIS 2 CORS	
Ref Mon # 3	ZME B	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180003	Date Monumented 4/28/1998	Monumented By AHTD	County CRITTENDEN	Route 38	Job Number: R10010
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 66,603.7391		Latitude 34 55 21.4369212
Easting (M) 548,563.6040		Longitude 90 22 26.5623600
Elevation (M)* 60.891		Ellipsoid Height (M): 33.859
Northing (SFT) 218,515.7674		Geoid Height (M): -26.988
Easting (SFT) 1,799,745.7575		
Elevation (SFT)* 199.773		

Convergence Angle	0	56	46.1102587
Scale Factor	1.000002127		
Elevation Adjust. Factor	0.9999904443		
Combined Adjust. Factor	0.9999925713		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	79	3.56	11.7
MK # 2	POWER POLE	5	22.69	74.5
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 DAWSEY	ELEVATION BY 3 WIRE FROM NGS POINT K 251
Ref Mon # 2 BRINKLEYPOR	
Ref Mon # 3 H 349	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180003A	Date Monumented 4/28/1998	Monumented By AHTD	County CRITTENDEN	Route 38	Job Number: R10010
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 66,588.2151		Geoid Datum:
Easting (M) 547,842.2120		Latitude 34 55 21.3188412
Elevation (M)* 61.512		Longitude 90 22 54.9902820
Northing (SFT) 218,464.8357		Ellipsoid Height (M): 34.526
Easting (SFT) 1,797,378.9905		Geoid Height (M): -26.980
Elevation (SFT)* 201.811		

Convergence Angle 0 56 29.5680757	Scale Factor 1.000002134
Elevation Adjust. Factor 0.9999903469	Combined Adjust. Factor 0.9999924808

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 38 AND STATE HIGHWAY 147, LOCATED ON THE WEST SIDE OF HORSESHOE LAKE, GO WEST ON STATE HIGHWAY 38 FOR 1.07 KM (0.66 MI) TO THE JUNCTION OF EARL BECK ROAD ON THE RIGHT AND THE STATION ON THE LEFT. THE STATION IS 11.10 METERS EAST OF THE CENTER OF A GRAVEL ROAD, 7.25 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 38 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180003A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TELEPHONE JUNCTION BOX	216	9.50	31.2	180003
MK # 2	COMBINATION POLE	235	22.90	75.1	89 42 31.90057
MK # 3	COMBINATION POLE = TBM 931	308	26.20	86.0	88 46 02.19847

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 DAWSEY	ELEVATION BY 3 WIRE FROM NGS POINT K 251
Ref Mon # 2 BRINKLEYPOR	
Ref Mon # 3 H 349	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180004	Date Monumented 5/18/1999	Monumented By AHTD	County CRITTENDEN	Route 64	Job Number: 0334,Mobie LiDAR-CLS,1105
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	105,645.4014
Easting (M)	539,062.6275
Elevation (M)*	64.314
Northing (SFT)	346,604.9544
Easting (SFT)	1,768,574.6371
Elevation (SFT)*	211.004

Convergence Angle	0 53 22.2130899
Scale Factor	0.999950335
Elevation Adjust. Factor	0.9999899071
Combined Adjust. Factor	0.9999402426

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	16	33.1198968
Longitude	90	28	16.9620420
Ellipsoid Height:	37.069		
Grid Northing (Meters)	105,645.3751		
Grid Easting (Meters)	539,062.6235		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	59 16.742	16.74	54.9
MK # 2	WEST END CMP	93	19.16	62.8
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 BRINKLEYPOR Ref Mon # 2 DAWSEY Ref Mon # 3 MEM 2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> 3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment. Superseded ELEV. 211.105(64.345m) </td> </tr> </table>	Comments	3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment. Superseded ELEV. 211.105(64.345m)
Comments			
3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment. Superseded ELEV. 211.105(64.345m)			

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 149, LOCATED ON THE NORTH SIDE OF EARLE, GO WEST ON U.S. HIGHWAY 64 FOR 0.23 KM (0.14 MI) TO THE STATION ON THE RIGHT. THE STATION IS 24.079 METERS WEST OF THE WEST PAVED ENTRANCE TO A FAMILY DOLLAR STORE, 15.70 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180004 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180004A	Date Monumented 5/18/1999	Monumented By AHTD	County CRITTENDEN	Route 64	Job Number: 110334,Mobie LiDAR-CLS
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 105,628.4073		Geoid Datum: Geoid 96
Easting (M) 539,720.2396		Latitude 35 16 32.2372956
Elevation (M)* 62.476		Longitude 90 27 50.9532984
Northing (SFT) 346,549.1996		Ellipsoid Height (M): 35.195
Easting (SFT) 1,770,732.1528		Geoid Height (M): -27.233
Elevation (SFT)* 204.973		

Convergence Angle 0 53 37.3474546	Scale Factor 0.999950358
Elevation Adjust. Factor 0.9999901956	Combined Adjust. Factor 0.9999405541

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 149, LOCATED ON THE NORTH SIDE OF EARLE, GO EAST ON U.S. HIGHWAY 64 FOR 0.43 KM (0.27 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.50 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 11.20 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "180004A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	246	23.90	78.4
MK # 2	NONE			
MK # 3	NONOE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 BRINKLEYPORT</p> <p>Ref Mon # 2 DAWSEY</p> <p>Ref Mon # 3 MEM 2</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180005	Date Monumented 5/18/1999	Monumented By AHTD	County CRITTENDEN	Route 64	Job Number: 110334,Mobie LiDAR-CLS
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 105,265.4351		Geoid Datum: Geoid 96
Easting (M) 545,786.2295		Latitude 35 16 17.3235684
Elevation (M)* 65.421		Longitude 90 23 51.1835676
Northing (SFT) 345,358.3483		Ellipsoid Height (M): 38.160
Easting (SFT) 1,790,633.6546		Geoid Height (M): -27.239
Elevation (SFT)* 214.635		

Convergence Angle 0 55 56.8692518	Location Description TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 149, LOCATED ON THE NORTH SIDE OF EARLE, GO EAST ON U.S HIGHWAY 64 FOR 6.53 KM (4.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 18.91 METERS NORTH-NORTHEAST OF THE CENTER OF U.S. HIGHWAY 64, 7.70 METERS WEST OF THE CENTER OF SPRINGHILL ROAD AND 0.50 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180005 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.
Scale Factor 0.999950748	
Elevation Adjust. Factor 0.9999897334	
Combined Adjust. Factor 0.9999404819	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE = TBM 9208	292	15.18	49.8	AZ Mark Station 180005A
MK # 2	WEST END OF CMP	159	10.28	33.7	Geodetic Azimuth 130 36 32.00605
MK # 3	NONE				Grid Azimuth 129 40 35.09368

Area Reference Monuments (used for Processing) Ref Mon # 1 BRINKLEYPORT Ref Mon # 2 DAWSEY Ref Mon # 3 MEM 2	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180005A	Date Monumented 5/18/1999	Monumented By AHTD	County CRITTENDEN	Route 64	Job Number: 110334,Mobie LiDAR-CLS
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 104,854.9934		Geoid Datum: Geoid 96
Easting (M) 546,281.0233		Latitude 35 16 3.7447968
Elevation (M)* 65.028		Longitude 90 23 31.8730452
Northing (SFT) 344,011.7575		Ellipsoid Height (M): 37.777
Easting (SFT) 1,792,256.9906		Geoid Height (M): -27.234
Elevation (SFT)* 213.346		

Convergence Angle 0 56 8.1060280	Location Description
Scale Factor 0.999951107	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 149, LOCATED ON THE NORTH SIDE OF EARLE GO EAST ON U.S. HIGHWAY 64 FOR 7.16 KM (4.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.00 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180005A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 0.9999897951	
Combined Adjust. Factor 0.9999409026	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE				180005	
MK # 2	NONE				310 36 43.15642	
MK # 3	NONE				309 40 35.09368	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	
Ref Mon # 2 DAWSEY	
Ref Mon # 3 MEM 2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180006	Date Monumented 5/18/1999	Monumented By AHTD	County CRITTENDEN	Route 64	Job Number: 110334,Mobie LiDAR-CLS
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 102,876.5042		Geoid Datum: Geoid 96
Easting (M) 548,998.6085		Latitude 35 14 58.0984548
Elevation (M)* 65.867		Longitude 90 21 45.6634728
Northing (SFT) 337,520.6642		Ellipsoid Height (M): 38.641
Easting (SFT) 1,801,172.9347		Geoid Height (M): -27.213
Elevation (SFT)* 216.099		

Convergence Angle 0 57 9.9092855	Scale Factor 0.999952904
Elevation Adjust. Factor 0.9999896634	Combined Adjust. Factor 0.9999425679

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	
Ref Mon # 2 DAWSEY	
Ref Mon # 3 MEM 2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180006A	Date Monumented 5/18/1999	Monumented By AHTD	County CRITTENDEN	Route 64	Job Number: 110334,Mobie LiDAR-CLS
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	102,862.1536
Easting (M)	548,528.8757
Elevation (M)*	65.530
Northing (SFT)	337,473.5823
Easting (SFT)	1,799,631.8197
Elevation (SFT)*	214.993

Convergence Angle	0	56	59.0926666
Scale Factor	0.999952910		
Elevation Adjust. Factor	0.9999897163		
Combined Adjust. Factor	0.9999426268		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	
Ref Mon # 2 DAWSEY	
Ref Mon # 3 MEM 2	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	35 14 57.8858964
Longitude	90 22 4.2519504
Ellipsoid Height (M):	38.305
Geoid Height (M):	-27.212

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64, 64B AND STATE HIGHWAY 50, LOCATED ON THE NORTH SIDE OF CRAWFORDSVILLE, GO WEST ON U.S. HIGHWAY 64 FOR 4.25 KM (2.64 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.90 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180006A 1999" SET ON TOP OF AND IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180007	Date Monumented 5/18/1999	Monumented By AHTD	County CRITTENDEN	Route 64	Job Number: 110334,Mobie LiDAR-CLS
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	100,929.8072	
Easting (M)	552,851.2291	
Elevation (M)*	67.765	
Northing (SFT)	331,133.8758	
Easting (SFT)	1,813,812.7408	
Elevation (SFT)*	222.326	

Convergence Angle	0	58	37.8144325
Scale Factor	0.999954790		
Elevation Adjust. Factor	0.9999893656		
Combined Adjust. Factor	0.9999441561		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>BRINKLEYPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>DAWSEY</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MEM 2</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	BRINKLEYPORT	Ref Mon # 2	DAWSEY	Ref Mon # 3	MEM 2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	BRINKLEYPORT										
Ref Mon # 2	DAWSEY										
Ref Mon # 3	MEM 2										
Comments											

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64, 64B AND STATE HIGHWAY 50, LOCATED ON THE NORTH SIDE OF CRAWFORDSVILLE, GO EAST ON U.S. HIGHWAY 64 FOR 0.60 KM (0.37 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.60 METERS EAST OF THE CENTER OF A GRAVEL FIELD ENTRANCE, 10.80 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180007 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

AZ Mark Station	180007A
Geodetic Azimuth	118 00 32.08259
Grid Azimuth	117 01 54.22115

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180007A	Date Monumented 5/18/1999	Monumented By AHTD	County CRITTENDEN	Route 64	Job Number: 110334,Mobie LiDAR-CLS
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 100,686.5021		Geoid Datum: Geoid 96
Easting (M) 553,328.0892		Latitude 35 13 44.6732400
Elevation (M)* 68.100		Longitude 90 18 55.9055592
Northing (SFT) 330,335.6323		Ellipsoid Height (M): 40.899
Easting (SFT) 1,815,377.2393		Geoid Height (M): -27.200
Elevation (SFT)* 223.425		

Convergence Angle 0 58 48.6912675	
Scale Factor 0.999955033	
Elevation Adjust. Factor 0.9999893130	
Combined Adjust. Factor 0.9999443465	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	
Ref Mon # 2 DAWSEY	
Ref Mon # 3 MEM 2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180008	Date Monumented 12/14/1999	Monumented By AHTD	County CRITTENDEN	Route 64	Job Number: 0337,Mobie LiDAR-CLS,1105
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	98,427.8421
Easting (M)	555,635.1190
Elevation (M)*	67.888
Northing (SFT)	322,925.3453
Easting (SFT)	1,822,946.2196
Elevation (SFT)*	222.728

Convergence Angle	0 59 40.8723151
Scale Factor	0.999957324
Elevation Adjust. Factor	0.9999893463
Combined Adjust. Factor	0.9999466708

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MEM 2	3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. Supersceded ELEV. 222.588(67.845)
Ref Mon # 2 DAWSEY	
Ref Mon # 3 180007	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180008A	Date Monumented 12/14/1999	Monumented By AHTD	County CRITTENDEN	Route 64	Job Number: 110337,Mobie LiDAR-CLS
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Vertical Determined By:</td> <td colspan="2">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2">Geoid 96</td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>12 20.7573804</td> </tr> <tr> <td>Longitude</td> <td>90</td> <td>17 3.9189012</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>40.782</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-27.183</td> <td></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality		Elevation Datum:	NAVD 88		Geoid Datum:	Geoid 96		Latitude	35	12 20.7573804	Longitude	90	17 3.9189012	Ellipsoid Height (M):	40.782		Geoid Height (M):	-27.183	
Vertical Determined By:	LEVEL - Unkown Quality																						
Elevation Datum:	NAVD 88																						
Geoid Datum:	Geoid 96																						
Latitude	35		12 20.7573804																				
Longitude	90		17 3.9189012																				
Ellipsoid Height (M):	40.782																						
Geoid Height (M):	-27.183																						
Horizontal Datum NAD 83 (1997)																							
Northing (M)	98,149.7821																						
Easting (M)	556,204.3960																						
Elevation (M)*	67.921																						
Northing (SFT)	322,013.0768																						
Easting (SFT)	1,824,813.9225																						
Elevation (SFT)*	222.837																						

Convergence Angle	0	59	53.8562061
Scale Factor	0.999957620		
Elevation Adjust. Factor	0.9999893411		
Combined Adjust. Factor	0.9999469615		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 64, 64B AND STATE HIGHWAY 50, LOCATED ON THE NORTH SIDE OF CRAWFORDSVILLE, GO EAST OF U.S. HIGHWAY 64 FOR 5.18 KM (3.22 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.65 METERS NORTHEAST OF THE NORTH RAIL, 11.40 SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180008A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 633.589 METERS.

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					180008
MK # 2	NONE					297 01 52.48202
MK # 3	NONE					296 01 58.68576

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MEM 2 Ref Mon # 2 DAWSEY Ref Mon # 3 180007	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180010A	Date Monumented 12/14/1999	Monumented By AHTD	County CRITTENDEN	Route 54	Job Number: 37,110505,110509,110588,110589
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	98,772.0677 0.0030
Easting (M)	562,693.1573 0.0030
Elevation (M)*	66.378 0.0064
Northing (SFT)	324,054.6921
Easting (SFT)	1,846,102.4669
Elevation (SFT)*	217.776

Convergence Angle	1 2 23.3733834
Scale Factor	0.999957100
Elevation Adjust. Factor	0.9999895832
Combined Adjust. Factor	0.9999466836

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35 12 37.2012012		
Longitude	90 12 46.9747728		
Ellipsoid Height:	39.189		
Grid Northing (Meters)	98,772.0241		
Grid Easting (Meters)	562,693.0880		

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF I-55 AND U.S. HIGHWAY 64, LOCATED ON THE EAST SIDE OF MARION, GO WEST ON U.S. HIGHWAY 64 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE RIGHT SET IN THE LAWN OF THE JOHN DEERE DEALER. THE STATION IS 14.30 METERS NORTHWEST OF THE CENTER U.S. HIGHWAY 64 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180010A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 529.182 METERS.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	63	30.60	100.4
MK # 2	NORTH END OF A HEADWALL	247	14.10	46.3
MK # 3	NONE			

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARWY	Position and elevation updated in May 2017 by Garver, job 110614, using digital leveling from NGS D 314. *****SupercededElevation:217.800***** 3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. 217.725(66.363m) 3-wire levels ran by crew S5111 on job 110505 tying into 3-wire data from job 110337 with first order NGS mark C 5 to NGS mark T 173 in
Ref Mon # 2	TN45	
Ref Mon # 3	ZME1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180012	Date Monumented 1/3/2003	Monumented By AHTD	County CRITTENDEN	Route N/A	Job Number: 10488,BB0108,110635,11065
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	91,896.6415 0.0030
Easting (M)	567,804.6751 0.0030
Elevation (M)*	65.378 0.0022
Northing (SFT)	301,497.5647
Easting (SFT)	1,862,872.5049
Elevation (SFT)*	214.496

Convergence Angle	1 4 17.9976570
Scale Factor	0.999964801
Elevation Adjust. Factor	0.9999897401
Combined Adjust. Factor	0.9999545415

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35 8 51.0761112		
Longitude	90 9 29.9896056		
Ellipsoid Height:	38.177		
Grid Northing (Meters)	91,896.6481		
Grid Easting (Meters)	567,804.6580		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF DROP INLET GRATE	164	6.95	22.8
MK # 2	CENTER OF MANHOLE	238	3.50	11.5
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD PAR 1 Ref Mon # 2 MEM 2 Ref Mon # 3 480016	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3 WIRE FROM NGS PT N 173 BY S5103 Position and elevation updated by cre S5113 in June 2017 during job 110650.</td> </tr> </table>	Comments	ELEVATION BY 3 WIRE FROM NGS PT N 173 BY S5103 Position and elevation updated by cre S5113 in June 2017 during job 110650.
Comments			
ELEVATION BY 3 WIRE FROM NGS PT N 173 BY S5103 Position and elevation updated by cre S5113 in June 2017 during job 110650.			

Location Description
TO REACH THE STATION FROM THE INTERSECTION OF HWY-70 AND INGRAM BLVD. ON THE EASTERN SIDE OF WEST MEMPHIS, GO NORTH ON INGRAM BLVD. FOR ONE BLOCK TO THOMPSON STREET AND THE STATION IN THE NORTHEAST CORNER OF THE INTERSECTION AND IN THE SOUTHWEST CORNER OF THE YARD OF " FIRST CHURCH OF THE NAZERENE " . 12.5 METERS NORTH OF THE CENTER OF THOMPSON STREET, 11.25 METERS EAST OF THE CENTER OF INGRAM BLVD. AND 2.0 METERS EAST OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "180012 2003"AND SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	180012A
Geodetic Azimuth	000 41 11
Grid Azimuth	359 36 53

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180012A	Date Monumented 1/3/2003	Monumented By AHTD	County CRITTENDEN	Route N/A	Job Number: 10422,110488,BB0108,11072
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	92,497.9271
Easting (M)	567,800.6150
Elevation (M)*	65.850
Northing (SFT)	303,470.2825
Easting (SFT)	1,862,859.1844
Elevation (SFT)*	216.043

Convergence Angle	1	4	18.1628831
Scale Factor	0.999964090		
Elevation Adjust. Factor	0.9999896661		
Combined Adjust. Factor	0.9999537565		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	350	6.30	20.7
MK # 2	WATER METER	62	11.80	38.7
MK # 3	WATER METER	141	16.15	53.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="AHTD PAR 1"/> Ref Mon # 2 <input type="text" value="MEM 2"/> Ref Mon # 3 <input type="text" value="480016"/>	<input type="text" value="ELEVATION BY 3 WIRE FROM NGS PT N 173 BY S5103"/>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180013	Date Monumented 1/9/2007	Monumented By AHTD	County CRITTENDEN	Route 70	Job Number: 11800
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - 3 Wire Level
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 91,646.7011		Latitude 35 8 51.5011344
Easting (M) 553,098.0550		Longitude 90 19 11.1020160
Elevation (M)* 64.022		Ellipsoid Height (M): 36.884
		Geoid Height (M): -27.109

Northing (SFT) 300,677.5519		
Easting (SFT) 1,814,622.5354		
Elevation (SFT)* 210.046		

Convergence Angle 0 58 39.8484625		
Scale Factor 0.999964786		
Elevation Adjust. Factor 0.9999899529		
Combined Adjust. Factor 0.9999547393		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST COR OF BRIDGE	113	2.74	9.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MSCD	3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-14-07. *****MONUMENT NOT FOUND BY S5103 IN MAY 2022. CREW RESET MONUMENT AND CALLED IT 180013 RESET.
Ref Mon # 2 ARBT	
Ref Mon # 3 ZME1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180013A	Date Monumented 1/9/2007	Monumented By AHTD	County CRITTENDEN	Route 70	Job Number: 110800, 110738
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	91,646.2429	0.0010			
Easting (M)	552,597.2813	0.0010			
Elevation (M)*	63.552				
Northing (SFT)	300,676.0486				
Easting (SFT)	1,812,979.5804				
Elevation (SFT)*	208.503				

Convergence Angle	0	58	28.3373130
Scale Factor	0.999964776		
Elevation Adjust. Factor	0.9999900268		
Combined Adjust. Factor	0.9999548031		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	8	51.7623288
Longitude	90	19	30.8837244
Ellipsoid Height:	36.442		
Grid Northing (Meters)	91,646.2191		
Grid Easting (Meters)	552,597.2900		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	170	27.40	89.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB (MSCD)	3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-14-07. *****S5103 RE-TRACKED IN JULY 2022 AND RE-RAN DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 FOR JOB #110738. PREVIOUS GEOID HT. WAS -27.106m. SUPERCEDED ELEV. WAS 63.5763m
Ref Mon # 2 AROC (ARBT)	
Ref Mon # 3 ARWM, ARWY (ZME1)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180014	Date Monumented 1/9/2007	Monumented By AHTD	County CRITTENDEN	Route 70	Job Number: 110800,110524, 110738
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	91,701.8455	0.0010			
Easting (M)	558,400.2509	0.0020			
Elevation (M)*	63.997				

Northing (SFT)	300,858.4714				
Easting (SFT)	1,832,018.1565				
Elevation (SFT)*	209.964				

Convergence Angle	1	0	41.7477212		
Scale Factor	0.999964830				
Elevation Adjust. Factor	0.9999899568				
Combined Adjust. Factor	0.9999547872				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (1997)				
Latitude	35	8	50.3038608		
Longitude	90	15	41.6168388		
Ellipsoid Height:	36.845				
Grid Northing (Meters)	91,701.8561				
Grid Easting (Meters)	558,400.2500				

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	EAST END OF 24" CMP		239	20.79	68.2
MK # 2	POWER POLE W/GUY		72	22.25	73.0
MK # 3	10" FORKED TREE		26	14.54	47.7

Area Reference Monuments (used for Processing) Ref Mon # 1 ARJB (MSCD) Ref Mon # 2 AROC (ARBT) Ref Mon # 3 ARWM, ARWY (ZME1)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> 3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-10-07. *****S5103 RE-TRACKED IN JULY 2022 AND RE-RAN DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 FOR JOB #110738. PREVIOUS GEOID HT. WAS -27.142m. SUPERCEDED ELEV. WAS 64.0157m </td> </tr> </table>	Comments	3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-10-07. *****S5103 RE-TRACKED IN JULY 2022 AND RE-RAN DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 FOR JOB #110738. PREVIOUS GEOID HT. WAS -27.142m. SUPERCEDED ELEV. WAS 64.0157m
Comments			
3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-10-07. *****S5103 RE-TRACKED IN JULY 2022 AND RE-RAN DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 FOR JOB #110738. PREVIOUS GEOID HT. WAS -27.142m. SUPERCEDED ELEV. WAS 64.0157m			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180014A	Date Monumented 1/9/2007	Monumented By AHTD	County CRITTENDEN	Route 70	Job Number: 110800,110524, 110738
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	91,680.6116 0.0010
Easting (M)	557,642.3743 0.0010
Elevation (M)*	63.936

Northing (SFT)	300,788.8066		
Easting (SFT)	1,829,531.6897		
Elevation (SFT)*	209.764		

Convergence Angle	1 0 24.3185528
Scale Factor	0.999964839
Elevation Adjust. Factor	0.9999899665
Combined Adjust. Factor	0.9999548058

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	8	50.0464500
Longitude	90	16	11.5692240
Ellipsoid Height:	36.772		
Grid Northing (Meters)	91,680.5722		
Grid Easting (Meters)	557,642.3700		

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 147 AND STATE HIGHWAY 70, IN LEHL, GO EAST ON HIGHWAY 70 1.3 MILES TO THE STATION MARK ON THE LEFT, NORTH 26.5 FEET OF THE CENTER LINE OF THE HIGHWAY AND NORTH 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180014A 2007" ON TOP OF A 4.0 FOOT REBAR DRIVRN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHAIN LINK FENCE CORNER	177	31.27	102.6
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARJB (MSCD)</p> <p>Ref Mon # 2 AROC (ARBT)</p> <p>Ref Mon # 3 ARWM, ARWY (ZME1)</p>	<p style="text-align: center;">Comments</p> <p>3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-10-07. *****S5103 RE-TRACKED IN JULY 2022 AND RE-RAN DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 FOR JOB #110738. PREVIOUS GEOID HT. WAS -27.137m. SUPERCEDED ELEV. WAS 69.9386m</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180015	Date Monumented 1/9/2007	Monumented By AHTD	County CRITTENDEN	Route 147	Job Number: 11800
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	95,688.6351	
Easting (M)	555,530.0880	
Elevation (M)*	64.981	
Northing (SFT)	313,938.4637	
Easting (SFT)	1,822,601.6304	
Elevation (SFT)*	213.191	

Convergence Angle	0	59	37.3632832
Scale Factor	0.999960222		
Elevation Adjust. Factor	0.9999898025		
Combined Adjust. Factor	0.9999500249		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTH END OF A 36" CMP	2	0.61	2.0	
MK # 2	POER POLE	97	23.74	77.9	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 MSCD Ref Mon # 2 ARBT Ref Mon # 3 ZME1	Comments 3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-14-07.
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Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 11 1.2853500
Longitude	90 17 32.2621692
Ellipsoid Height (M):	37.802
Geoid Height (M):	-27.157

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 147 AND STATE HIGHWAY 70, IN LEHI, GO NORTH ON HIGHWAY 147 2.5 MILES TO THE STATION MARK ON THE LEFT, 12.4 FEET SOUTH OF A FIELD ENTRANCE, WEST 37.6 FEET OF THE CENTER LINE OF THE HIGHWAY AND NORTH 8.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180015 2007" ON TOP OF A 4.0 FOOT REBAR DRIVRN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	180015A
Geodetic Azimuth	180 46 57
Grid Azimuth	179 47 20

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180015A	Date Monumented 1/9/2007	Monumented By AHTD	County CRITTENDEN	Route 147	Job Number: 11800
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	94,880.3991	
Easting (M)	555,533.0670	
Elevation (M)*	64.179	
Northing (SFT)	311,286.7760	
Easting (SFT)	1,822,611.4040	
Elevation (SFT)*	210.561	

Convergence Angle	0	59	37.1094224
Scale Factor	0.999961112		
Elevation Adjust. Factor	0.9999899283		
Combined Adjust. Factor	0.9999510407		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF A 36" CMP	28	2.44	8.0
MK # 2	POWER POLE W/GUY	77	24.26	79.6
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MSCD	3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-14-07.
Ref Mon # 2 ARBT	
Ref Mon # 3 ZME1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180016	Date Monumented 1/9/2007	Monumented By AHTD	County CRITTENDEN	Route NA	Job Number: 110800,110505
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	94,489.6381
Easting (M)	558,957.6160
Elevation (M)*	65.451
Northing (SFT)	310,004.7543
Easting (SFT)	1,833,846.7785
Elevation (SFT)*	214.733

Convergence Angle	1	0	55.6951408
Scale Factor	0.999961616		
Elevation Adjust. Factor	0.9999897288		
Combined Adjust. Factor	0.9999513452		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF A CMP	264	8.23	27.0
MK # 2	NORTH END OF A CMP	315	11.13	36.5
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 MSCD Ref Mon # 2 ARBT Ref Mon # 3 ZME1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-10-07.</td> </tr> </table>	Comments	3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-10-07.
Comments			
3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-10-07.			

Vertical Determined By: 3rd Order - 3 Wire Level

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 10 20.4337020

Longitude 90 15 17.6480172

Ellipsoid Height (M): 38.266

Geoid Height (M): -27.165

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 147 AND STATE HIGHWAY 70, IN LEHI, GO EAST ON HIGHWAY 70 2.1 MILES TO KUHN ROAD AND TURN LEFT (NORTH) ON KUHN ROAD AND GO 1.7 MILES TO THE STATION MARK ON THE RIGHT, SOUTH OF THE CENTER LINE OF AN ASPHALT TURN IN 11.3 FEET AND AT THE SOUTHEAST CORNER OF AN ASPHALT TURN IN, EAST 59.3 FEET OF THE CENTER LINE OF THE HIGHWAY AND EAST 25.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180016 2007" ON TOP OF A 4.0 FOOT REBAR DRIVRN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180016A	Date Monumented 1/9/2007	Monumented By AHTD	County CRITTENDEN	Route NA	Job Number: 110800,110505
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	93,897.3021
Easting (M)	558,930.4680
Elevation (M)*	64.745
Northing (SFT)	308,061.3986
Easting (SFT)	1,833,757.7104
Elevation (SFT)*	212.416

Convergence Angle	1	0	54.8295710
Scale Factor	0.999962285		
Elevation Adjust. Factor	0.9999898396		
Combined Adjust. Factor	0.9999521249		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NORTH END OF A CULVERT	143	11.89	39.0	180016
MK # 2	WELL TEST SITE	317	1.34	4.4	3 38 22
MK # 3					2 37 27

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MSCD	3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-10-07.
Ref Mon # 2 ARBT	
Ref Mon # 3 ZME1	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180017	Date Monumented 6/16/2010	Monumented By AHTD	County CRITTENDEN	Route I-40	Job Number: 110542
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	92,635.7751	
Easting (M)	575,004.5090	
Elevation (M)*	74.943	
Northing (SFT)	303,922.5388	
Easting (SFT)	1,886,493.9599	
Elevation (SFT)*	245.875	

Convergence Angle	1	7	3.8193937
Scale Factor	0.999964090		
Elevation Adjust. Factor	0.9999882391		
Combined Adjust. Factor	0.9999523296		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE SOUTHWEST CORNER OF THE I-40 MISSISSIPPI RIVER BRIDGE GO EAST 295 FEET TO THE MARK ON THE SOUTH SIDE OF THE EAST BOUND LANE OF INTERSTATE 40, SOUTH 4.4 FEET FROM THE EDGE OF THE CONCRETE, NORTH 101.3 OF THE C/L OF A GRAVEL ROAD, AND SOUTH 2.1 FEET FROM THE WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180017 2010" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1					AZ Mark Station	180017A
MK # 2					Geodetic Azimuth	269 54 10
MK # 3					Grid Azimuth	268 47 06

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT, MSB6 Ref Mon # 2 TN42 Ref Mon # 3 C 5	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180017A	Date Monumented 6/16/2010	Monumented By AHTD	County CRITTENDEN	Route I-40	Job Number: 110542
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 92,625.2341		Latitude 35 9 10.5650928
Easting (M) 574,507.4930		Longitude 90 5 4.6642740
Elevation (M)* 72.524		Ellipsoid Height (M): 45.301
		Geoid Height (M): -27.223

Northing (SFT) 303,887.9555		
Easting (SFT) 1,884,863.3333		
Elevation (SFT)* 237.939		

Convergence Angle	1	6	52.3898465
Scale Factor	0.999964091		
Elevation Adjust. Factor	0.9999886187		
Combined Adjust. Factor	0.9999527102		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station 180017
MK # 2					Geodetic Azimuth 89 53 59
MK # 3					Grid Azimuth 88 47 06

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARBT, MSB6</td> </tr> <tr> <td>Ref Mon # 2</td> <td>TN42</td> </tr> <tr> <td>Ref Mon # 3</td> <td>C 5</td> </tr> </table>	Ref Mon # 1	ARBT, MSB6	Ref Mon # 2	TN42	Ref Mon # 3	C 5	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARBT, MSB6						
Ref Mon # 2	TN42						
Ref Mon # 3	C 5						

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180018	Date Monumented 10/24/2011	Monumented By AHTD	County CRITTENDEN	Route 147	Job Number: 110557
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	69,442.9957	
Easting (M)	552,073.0447	
Elevation (M)*	61.898	
Northing (SFT)	227,830.8951	
Easting (SFT)	1,811,259.6475	
Elevation (SFT)*	203.077	

Convergence Angle	0	58	7.6564467
Scale Factor	0.999997214		
Elevation Adjust. Factor	0.9999902863		
Combined Adjust. Factor	0.9999875003		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL of asphalt drive	175	8.20	26.9
MK # 2	power pole with service	265	23.80	78.1
MK # 3	Power Pole	295	21.30	69.9

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED </td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED
Comments			
ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED			

Location Description
Starting at the junction of highway 131 and 147 go south east on 131 for 0.25 miles to the station on the right. The station is a standard alum. cap stamped(180018 2011) and is set on a 4 foot 5/8" rebar. It is 2 foot south of a witness post and 57 foot south west of the CL of highway 131. Lat.34.5652 Lon. 090.2007

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180018 1	Date Monumented 2/9/2012	Monumented By AHTD	County Crittenden	Route 149	Job Number: 110571
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	94,216.0514	
Easting (M)	537,598.7100	
Elevation (M)*	63.131	
Northing (SFT)	309,107.1620	
Easting (SFT)	1,763,771.7677	
Elevation (SFT)*	207.122	

Convergence Angle	0	52	44.4711830
Scale Factor	0.999961527		
Elevation Adjust. Factor	0.9999900928		
Combined Adjust. Factor	0.9999516202		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	south of the center line of Dixie road	0	8.53	28.0
MK # 2	north of Power pole	185	6.71	22.0
MK # 3	East of centerline of 149	90	12.19	40.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV DERIVED BY DIGITAL LEVELS FROM AHTD GPS MON. 680013A BY GARVER DURING JOB 110571 IN DEC 2012.</td> </tr> </table>	Comments	ELEV DERIVED BY DIGITAL LEVELS FROM AHTD GPS MON. 680013A BY GARVER DURING JOB 110571 IN DEC 2012.
Comments			
ELEV DERIVED BY DIGITAL LEVELS FROM AHTD GPS MON. 680013A BY GARVER DURING JOB 110571 IN DEC 2012.			

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180018A	Date Monumented 10/24/2011	Monumented By AHTD	County Crittenden	Route 147	Job Number: 110557
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	69,417.7550	
Easting (M)	551,303.9882	
Elevation (M)*	62.002	
Northing (SFT)	227,748.0845	
Easting (SFT)	1,808,736.5013	
Elevation (SFT)*	203.418	

Convergence Angle	0	57	50.0124360
Scale Factor	0.999997235		
Elevation Adjust. Factor	0.9999902700		
Combined Adjust. Factor	0.9999875050		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
Starting at the junction of highways 131 and 147 go south west on 147 0.4 miles to the station on the left. The station is a standard alum. cap stamped (180018A 2011) and is set on a 4 foot 5/8" rebar. It is 19 foot south of the CL of highway 147 and 2 foot north of a witness post. Lat.34.5651 Lon.090.2036				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Power Pole	60	40.50	132.9	AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180018A 1	Date Monumented 2/9/2012	Monumented By AHTD	County Crittenden	Route 149	Job Number: 110571
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	94,234.6592	
Easting (M)	537,032.9919	
Elevation (M)*	62.762	
Northing (SFT)	309,168.2111	
Easting (SFT)	1,761,915.7409	
Elevation (SFT)*	205.910	

Convergence Angle	0	52	31.4694628
Scale Factor	0.999961496		
Elevation Adjust. Factor	0.9999901508		
Combined Adjust. Factor	0.9999516471		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	north of center line of dixie road	0	5.50	18.0
MK # 2	south of telephone box	5	3.66	12.0
MK # 3	west of field entrance	90	44.20	145.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV DERIVED BY DIGITAL LEVELS FROM AHTD GPS MON. 680013A BY GARVER DURING JOB 110571 IN DEC 2012.</td> </tr> </table>	Comments	ELEV DERIVED BY DIGITAL LEVELS FROM AHTD GPS MON. 680013A BY GARVER DURING JOB 110571 IN DEC 2012.
Comments			
ELEV DERIVED BY DIGITAL LEVELS FROM AHTD GPS MON. 680013A BY GARVER DURING JOB 110571 IN DEC 2012.			

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180019	Date Monumented 10/24/2011	Monumented By AHTD	County Crittenden	Route 147	Job Number: 110557
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	73,338.7128	
Easting (M)	551,764.7421	
Elevation (M)*	61.001	
Northing (SFT)	240,612.0936	
Easting (SFT)	1,810,248.1580	
Elevation (SFT)*	200.133	

Convergence Angle	0	58	2.0952958
Scale Factor	0.999990640		
Elevation Adjust. Factor	0.9999904271		
Combined Adjust. Factor	0.9999810672		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
Starting at the junction of highway 131 and 147 go north on 147 to the junction of 147 and Williford road and the station on the right. The station is a standard alum. cap stamped(180019 2011) and is set on a 4 foot 5/8" rebar. It is 69 foot east of the CL of 147 and 1 foot north of a witness post. Lat.34.5859 Lon.090.2016				

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	CL of Williford Road		0	6.10	20.0
MK # 2	Telephone box		235	11.89	39.0
MK # 3	16" R.C.P.		260	13.10	43.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 100%;" type="text"/> Ref Mon # 2 <input style="width: 100%;" type="text"/> Ref Mon # 3 <input style="width: 100%;" type="text"/>	ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180019A	Date Monumented 10/24/2011	Monumented By AHTD	County Crittenden	Route 147	Job Number: 110557
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	73,261.0938	
Easting (M)	552,288.3323	
Elevation (M)*	61.634	
Northing (SFT)	240,357.4386	
Easting (SFT)	1,811,965.9702	
Elevation (SFT)*	202.210	

Convergence Angle	0	58	14.0761077
Scale Factor	0.999990781		
Elevation Adjust. Factor	0.9999903277		
Combined Adjust. Factor	0.9999811088		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
Starting at the junction of highway 147 and Williford road go 0.35 miles east on williford road to the staton on the right. The station is a standard alum. cap stamped (180019A 2011) and is set on a 4 foot 5/8" rebar. It is 2 foot from a witness post and 14 foot from the center line of Williford Road. Lat.34.5556 Lon.090.1955				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	West end of a Head Wall over a double 18" C.M.P	90	0.60	2.0
MK # 2	center of the two culverts	90	1.98	6.5
MK # 3	CL of Williford road	0	4.27	14.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 100%;" type="text"/> Ref Mon # 2 <input style="width: 100%;" type="text"/> Ref Mon # 3 <input style="width: 100%;" type="text"/>	ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180020	Date Monumented 10/24/2011	Monumented By AHTD	County Crittenden	Route 147	Job Number: 110557
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	77,952.7380	
Easting (M)	551,572.9565	
Elevation (M)*	62.327	
Northing (SFT)	255,749.9413	
Easting (SFT)	1,809,618.9415	
Elevation (SFT)*	204.483	

Convergence Angle	0	57	59.4814527
Scale Factor	0.999983339		
Elevation Adjust. Factor	0.9999902190		
Combined Adjust. Factor	0.9999735582		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL of the South spur of highway 50 and 147	50	18.29	60.0
MK # 2	CL of highway 50	330	15.24	50.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED
Comments			
ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED			

Location Description
This station is at the south west corner of the triangle made by the intersection of highway 147 and 50. The station is a standard alum. cap stamped (180020 2011) and is set on a 4 foot 5/8" rebar. It is 50 foot south of the CL of 50 and 2 foot north of a witness post. Lat.350128 Lon.0902021

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180020A	Date Monumented 10/24/2011	Monumented By AHTD	County Crittenden	Route 147	Job Number: 110557
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	77,883.3798	
Easting (M)	550,673.2517	
Elevation (M)*	61.908	
Northing (SFT)	255,522.3886	
Easting (SFT)	1,806,667.1600	
Elevation (SFT)*	203.111	

Convergence Angle	0	57	38.8051782
Scale Factor	0.999983422		
Elevation Adjust. Factor	0.9999902847		
Combined Adjust. Factor	0.9999737068		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL of a gravel field entrance	85	6.40	21.0
MK # 2	CL of a ditch	260	10.67	35.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED </td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED
Comments			
ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED			

Location Description
This station is approx. 0.575 miles west on highway 50 from the main point (180020) or about 0.6 miles from the northern most intersection of highway 147 and 50. The station is on the north side of the highway 50 and it is a standard alum. cap stamped (180020a 2011) and is set on a 4 foot 5/8" rebar. It is 29 foot north of the CL of 50 and 2 foot south of a witness post. Lat.35.0127 Lon.090.2056

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180021	Date Monumented 6/5/2012	Monumented By AHTD	County Crittenden	Route 64	Job Number: 110588
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	105,618.2866	
Easting (M)	539,687.2440	
Elevation (M)*	61.430	
Northing (SFT)	346,515.9953	
Easting (SFT)	1,770,623.8997	
Elevation (SFT)*	201.540	

Convergence Angle	0	53	36.5841526
Scale Factor	0.999950366		
Elevation Adjust. Factor	0.9999903598		
Combined Adjust. Factor	0.9999407263		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole w/2 guy wires	81	10.60	34.8
MK # 2	Northwest corner of concrete block foundation	105	5.60	18.4
MK # 3	Power pole w/twin transformers	267	27.10	88.9

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.</td> </tr> </table>	Comments	3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.
Comments			
3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.			

Location Description
To reach from the intersection of I-55 and Hwy. 64 in Marion. Go West on Hwy. 64 for 16.7 miles to the station on the left. The station is 9.0 ft. North of the witness post, 69.0 ft South of the centerline of Hwy. 64, and 22.0 ft Southeast of the center of a sewer manhole. The station mark is a 2 1/2 in. cap stamped "180021 2012" set on top of a 5/8 in. by 4.0 ft. rebar driven 0.10 in. below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180022	Date Monumented 6/5/2012	Monumented By AHTD	County Crittenden	Route 64	Job Number: 110588
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	104,861.2539	
Easting (M)	546,278.5967	
Elevation (M)*	64.775	
Northing (SFT)	344,032.2972	
Easting (SFT)	1,792,249.0293	
Elevation (SFT)*	212.515	

Convergence Angle	0	56	8.0525196
Scale Factor	0.999951101		
Elevation Adjust. Factor	0.9999898348		
Combined Adjust. Factor	0.9999409363		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments
3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.

Location Description
To reach from the intersection of I-55 and Hwy. 64 in Marion. Go West on Hwy. 64 for 12.4 miles to the station on the right. The station is 2.0 ft. Southwest of a witness post, 43.5 ft. Northeast of the centerline of Hwy. 64, and 19.0 ft. Southeast of a field road. The station mark is a 2 1/2 in. cap stamped "180022 2012" set on top of a 5/8 in. by 4.0 ft. rebar driven 0.10 in. below the surface.

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID96
Latitude	35 16 3.9492084
Longitude	90 23 31.9650000
Ellipsoid Height (M):	37.541
Geoid Height (M):	-27.234

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180022A	Date Monumented 6/5/2012	Monumented By AHTD	County Crittenden	Route 64	Job Number: 110588
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	105,258.2279	
Easting (M)	545,800.0854	
Elevation (M)*	65.158	
Northing (SFT)	345,334.7027	
Easting (SFT)	1,790,679.1135	
Elevation (SFT)*	213.772	

Convergence Angle	0	55	57.1855408
Scale Factor	0.999950754		
Elevation Adjust. Factor	0.9999897747		
Combined Adjust. Factor	0.9999405292		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	18" CMP		208	6.00	19.7
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180023	Date Monumented 6/5/2012	Monumented By AHTD	County Crittenden	Route 64	Job Number: 110588
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,819.1522	
Easting (M)	549,087.1034	
Elevation (M)*	65.585	
Northing (SFT)	337,332.5018	
Easting (SFT)	1,801,463.2717	
Elevation (SFT)*	215.173	

Convergence Angle	0	57	11.9240745
Scale Factor	0.999952958		
Elevation Adjust. Factor	0.9999897077		
Combined Adjust. Factor	0.9999426662		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18 inch drain pipe	149	11.50	37.7
MK # 2	Gas valve	181	21.00	68.9
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.</td> </tr> </table>	Comments	3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.
Comments			
3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.			

Location Description	
To reach the station from the intersection of highway 64 and interstate 55 in Marion go west on hwy-64 for 10.1 miles to the station on the left near the corner of a chain link fence, 79 feet south of the center of hwy-64, 50 feet west of the center of "Oilwell corner road" and 5.50 feet east of a witness post. The station mark is a 2 1/2in. cap stamped "180023 2012" set on top of a 5/8in. by 4 ft. long rebar and is 0.10ft. below the surface.	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180023A	Date Monumented 6/5/2012	Monumented By AHTD	County Crittenden	Route 64	Job Number: 110588
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,294.5824	
Easting (M)	549,103.7617	
Elevation (M)*	65.847	
Northing (SFT)	335,611.4758	
Easting (SFT)	1,801,517.9248	
Elevation (SFT)*	216.032	

Convergence Angle	0	57	12.1065641
Scale Factor	0.999953441		
Elevation Adjust. Factor	0.9999896666		
Combined Adjust. Factor	0.9999431081		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	91	2.45	8.0
MK # 2	Telephone Box	177	21.50	70.5
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.</td> </tr> </table>	Comments	3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.
Comments			
3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.			

Location Description	
<p>To reach from the intersection of I-55 and Hwy.64 in Marion. Go West on Hwy. 64 for 10.1 miles to County Road 13 (Oil Well Corner Rd.), then go South on County Road 13 (Oil Well Corner Rd.) for 0.3 miles to the station on the left. The station is 8.0 ft. West of the witness post, and 18.0 ft. East of the centerline of Hwy. 13 (Oil Well Corner Rd.) The station mark is a 2 1/2 in. cap stamped "180023A 2012" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.</p>	

AZ Mark Station	180023
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180024	Date Monumented 6/5/2012	Monumented By AHTD	County Crittenden	Route 50	Job Number: 110588
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	101,379.8364	
Easting (M)	552,335.1209	
Elevation (M)*	67.893	
Northing (SFT)	332,610.3466	
Easting (SFT)	1,812,119.4758	
Elevation (SFT)*	222.746	

Convergence Angle	0	58	26.1147225
Scale Factor	0.999954351		
Elevation Adjust. Factor	0.9999893455		
Combined Adjust. Factor	0.9999436970		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Power Pole	358	3.00	9.8	180024A
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180024A	Date Monumented 6/5/2012	Monumented By AHTD	County Crittenden	Route 50	Job Number: 110588
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	100,853.9769	
Easting (M)	552,352.0162	
Elevation (M)*	67.431	
Northing (SFT)	330,885.0892	
Easting (SFT)	1,812,174.9065	
Elevation (SFT)*	221.229	

Convergence Angle	0	58	26.2977840
Scale Factor	0.999954855		
Elevation Adjust. Factor	0.9999894180		
Combined Adjust. Factor	0.9999442735		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18" in. CMP under fld ent	200	5.20	17.1
MK # 2	Power Pole	255	17.50	57.4
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.</td> </tr> </table>	Comments	3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.
Comments			
3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.			

Location Description	
To reach from the intersection of I-55 and Hwy. 64 in Marion. Go West on Hwy.64 for 7.9 miles to Hwy. 50. Then go South on Hwy. 50 for 0.2 miles to the station on the left. The station is 2.0 ft. North of the witness post, and 29.0 ft. East of the center of Hwy. 50. The station mark is a 2 1/2 in. cap stamped "180024A 2012" set ontop of a 5/8 in. by 4.0 ft. rebar driven 0.10 in below the surface.	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID96
Latitude	35 13 50.6471268
Longitude	90 19 34.3890048
Ellipsoid Height (M):	40.232
Geoid Height (M):	-27.198

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180025	Date Monumented 6/5/2012	Monumented By AHTD	County Crittenden	Route 64	Job Number: 110588
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	97,824.2855	
Easting (M)	556,872.8864	
Elevation (M)*	68.047	
Northing (SFT)	320,945.1767	
Easting (SFT)	1,827,007.1281	
Elevation (SFT)*	223.249	

Convergence Angle	1	0	9.1022758
Scale Factor	0.999957970		
Elevation Adjust. Factor	0.9999893214		
Combined Adjust. Factor	0.9999472918		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Railroad signal pole (semaphore)	160	16.40	53.8
MK # 2	18" CMP	278	9.60	31.5
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.</td> </tr> </table>	Comments	3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.
Comments			
3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.			

Location Description
<p>To reach from the intersection of I-55 and Hwy. 64 in Marion. Go West on Hwy. 64 for 4.3 miles to the station on the left. The station is 3.0 ft. Northeast of a witness post, 50.0 ft. North of the nearest Railroad Rail, and 49.0 ft. Southwest of the centerline of Hwy. 64. The station mark is a 2 1/2 in. cap stamped "180025 2012" set on top of a 5/8 in. by 4.0 ft. rebar driven 0.10 in. below the surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180025A	Date Monumented 6/5/2012	Monumented By AHTD	County Crittenden	Route 64	Job Number: 110588
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 98,152.0506		Geoid Datum: GEOID96
Easting (M) 556,299.2269		Latitude 35 12 20.7773496
Elevation (M)* 68.271		Longitude 90 17 0.1686264
Northing (SFT) 322,020.5193		Ellipsoid Height (M): 41.087
Easting (SFT) 1,825,125.0469		Geoid Height (M): -27.183
Elevation (SFT)* 223.985		

Convergence Angle 0 59 56.0384877	
Scale Factor 0.999957620	
Elevation Adjust. Factor 0.9999892862	
Combined Adjust. Factor 0.9999469066	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fiber Optic Manhole	310	31.20	102.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180026	Date Monumented 1/28/2013	Monumented By AHTD	County Crittenden	Route 42	Job Number: 110567
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	116,325.4084	
Easting (M)	549,067.7757	
Elevation (M)*	65.416	
Northing (SFT)	381,644.2774	
Easting (SFT)	1,801,399.8608	
Elevation (SFT)*	214.620	

Convergence Angle	0	57	16.6589295
Scale Factor	0.999942845		
Elevation Adjust. Factor	0.9999897341		
Combined Adjust. Factor	0.9999325797		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	N end of culvert	102	1.83	6.0
MK # 2	Power pole	316	32.61	107.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. WAS EST. BY 3RD ORDER DIGITAL LEVEL FROM NGS BM V 4, COE MARK 0-11-3-93, AND COE MARK 0-11-5-93 BY CREW S5102 IN JOB 110567 DURING MARCH 2013.</td> </tr> </table>	Comments	ELEV. WAS EST. BY 3RD ORDER DIGITAL LEVEL FROM NGS BM V 4, COE MARK 0-11-3-93, AND COE MARK 0-11-5-93 BY CREW S5102 IN JOB 110567 DURING MARCH 2013.
Comments			
ELEV. WAS EST. BY 3RD ORDER DIGITAL LEVEL FROM NGS BM V 4, COE MARK 0-11-3-93, AND COE MARK 0-11-5-93 BY CREW S5102 IN JOB 110567 DURING MARCH 2013.			

Location Description
To reach from the intersection of I 55 and Hwy. 42 in Turrell. Go West on Hwy. 42 for 4.4 miles to Hwy. 118. Then go North (right) on Hwy. 118 for 0.3 miles to the station on the right. The station is 1.5 ft. West of witness post, and 27 ft. East of Hwy. 118, and 17 ft. North of the cl of driveway. The station is a 2 1/2 in. cap stamped "180026 2013" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180026A	Date Monumented 1/28/2013	Monumented By AHTD	County Crittenden	Route 42	Job Number: 110567
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	115,876.8140	
Easting (M)	549,170.9687	
Elevation (M)*	65.777	
Northing (SFT)	380,172.5139	
Easting (SFT)	1,801,738.4198	
Elevation (SFT)*	215.802	

Convergence Angle	0	57	18.8651279
Scale Factor	0.999943110		
Elevation Adjust. Factor	0.9999896776		
Combined Adjust. Factor	0.9999327882		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole with light	268	29.57	97.0
MK # 2	Radio tower	196	28.65	94.0
MK # 3	Fence corner	89	10.36	34.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. WAS EST. BY 3RD ORDER DIGITAL LEVEL FROM NGS BM V 4, COE MARK 0-11-3-93, AND COE MARK 0-11-5-93 BY CREW S5102 IN JOB 110567 DURING MARCH 2013.</td> </tr> </table>	Comments	ELEV. WAS EST. BY 3RD ORDER DIGITAL LEVEL FROM NGS BM V 4, COE MARK 0-11-3-93, AND COE MARK 0-11-5-93 BY CREW S5102 IN JOB 110567 DURING MARCH 2013.
Comments			
ELEV. WAS EST. BY 3RD ORDER DIGITAL LEVEL FROM NGS BM V 4, COE MARK 0-11-3-93, AND COE MARK 0-11-5-93 BY CREW S5102 IN JOB 110567 DURING MARCH 2013.			

Location Description
To reach from the intersection of I 55 and Hwy. 42 in Turrell. Go West on Hwy. 42 for 4.4 miles to the station on the left. The station is 3 ft. North of witness post, and 36 ft. South of cl of Hwy. 42. The station is a 2 1/2 in. cap stamped "180026A 2013" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180027	Date Monumented 5/1/2017	Monumented By Garver	County CRITTENDEN	Route 77	Job Number: 110614
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	99,717.3571	0.0030			
Easting (M)	563,880.3579	0.0030			
Elevation (M)*	67.010	0.0020			
Northing (SFT)	327,156.0291				
Easting (SFT)	1,849,997.4742				
Elevation (SFT)*	219.847				

Convergence Angle	1	2	51.0809778
Scale Factor	0.999956169		
Elevation Adjust. Factor	0.9999894841		
Combined Adjust. Factor	0.9999456536		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
From the intersection of I-55 and Hwy-65 in Marion, go East for .50 miles to the junction of Hwy-77 and then go North for .30 miles to the station on the Left. Standard 2 ½ " GPS Cap stamped 180027 2017 on top of a 4ft Rebar set below ground level.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CL OF 77		8.84	29.0	
MK # 2	TP		18.29	60.0	
MK # 3	WITNESS POLE		0.30	1.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="ARWY"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="TN45"/> Ref Mon # 3 <input style="width: 150px;" type="text" value="ZME1"/>	Elevation by digital levels from NGS BM D 314, by Garver in May 2017 during job 110614

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180028	Date Monumented 6/12/2016	Monumented By AHTD	County Crittenden	Route 78	Job Number: 110650
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	94,512.7141 0.0030
Easting (M)	570,595.7076 0.0030
Elevation (M)*	66.337 0.0007
Northing (SFT)	310,080.4628
Easting (SFT)	1,872,029.4174
Elevation (SFT)*	217.642

Convergence Angle	1 5 23.2948302
Scale Factor	0.999961831
Elevation Adjust. Factor	0.9999895896
Combined Adjust. Factor	0.9999514210

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By: None	
Elevation Datum:	
Geoid Datum:	GEOID12B
Latitude	35 10 14.2444632
Longitude	90 7 37.7750316
Ellipsoid Height (M):	39.021 0.0050
Geoid Height (M):	-27.316

Location Description
<p>To reach from the intersection of hwy I-40 and hwy 38(MLK) in Crittenden County, go North 1.2 miles to station on the right. 18' West of a sign post and power pole, 19' East of CL Hwy 38. Station is an AHTD GPS monument stamped "180028 2017" set on top of a 5/8 in. by 4 FT. Rebar driven 0.10 in. below the surface.</p>

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Sign post		18.00	59.1	180028A
MK # 2	Power Pole		18.00	59.1	
MK # 3	CL Hwy 38		19.00	62.3	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARWY Ref Mon # 2 ARPG Ref Mon # 3 ZME1	Position derived by static GPS, elevation based on digital levels from AHTD GPS Mon. 1800102A by crew S5113 in June 2017 during job 110650.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180028A	Date Monumented 6/12/2016	Monumented By AHTD	County Crittenden	Route 78	Job Number: 110650
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	95,037.7839 0.0030
Easting (M)	570,590.6216 0.0030
Elevation (M)*	66.258 0.0007
Northing (SFT)	311,803.1293
Easting (SFT)	1,872,012.7310
Elevation (SFT)*	217.383

Convergence Angle	1 5 23.4075512
Scale Factor	0.999961242
Elevation Adjust. Factor	0.9999896020
Combined Adjust. Factor	0.9999508444

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:		None	
Elevation Datum:			
Geoid Datum:		GEOID12B	
Latitude	35 10 31.2831012		
Longitude	90 7 37.5813192		
Ellipsoid Height (M):	38.939 0.0050		
Geoid Height (M):	-27.317		

Location Description
<p>To reach from the intersection of hwy I-40 and hwy 38(MLK) in Crittenden County, go North 1.55 miles to station on the right. 16.5' West of a sign, 17' West of Power Pole, and 19' East of CL Hwy 38. Station is an AHTD GPS monument stamped "180028A 2017" set ontop of a 5/8 in. by 4 FT. Rebar driven 0.10 in. below the surface.</p>

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Sign		16.50	54.1	180028
MK # 2	Power Pole		17.00	55.8	
MK # 3	CL Hwy 38		20.60	67.6	

Area Reference Monuments (used for Processing)		Comments Position derived by static GPS, elevation based on digital levels from AHTD GPS Mon. 1800102A by crew S5113 in June 2017 during job 110650.
Ref Mon # 1	ARWY	
Ref Mon # 2	ARPG	
Ref Mon # 3	ZME1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190001	Date Monumented 4/27/1999	Monumented By AHTD	County CROSS	Route 1	Job Number: 001853,110423,110808
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	104,034.2005 0.0018
Easting (M)	509,792.7019 0.0018
Elevation (M)*	78.604

Northing (SFT)	341,318.8728
Easting (SFT)	1,672,544.8895
Elevation (SFT)*	257.887

Convergence Angle	0 42	7.8325596
Scale Factor	0.999951366	
Elevation Adjust. Factor	0.9999876646	
Combined Adjust. Factor	0.9999390312	

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)
Latitude	35 15 54.0348336
Longitude	90 47 35.8927188
Ellipsoid Height:	51.409
Grid Northing (Meters)	104,034.2021
Grid Easting (Meters)	509,792.6880

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 64, LOCATED ON THE NORTHWEST SIDE OF WYNNE, GO NORTH ON STATE HIGHWAY 1 FOR 1.13 KM (0.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.73 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD, 10.14 METERS WEST OF THE CENTER OF HIGHWAY 1, 5.95 EAST METERS OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190001 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	190001A
Geodetic Azimuth	179 50 23.36445
Grid Azimuth	179 08 15.53207

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM C333 AND E333 IN APRIL 2021 BY S5101 DURING JOB 110808.
Ref Mon # 2 NEWSFORT	
Ref Mon # 3 DAWSEY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190001A	Date Monumented 4/27/1999	Monumented By AHTD	County CROSS	Route 1	Job Number: 001853,110423,110808
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	103,527.9836 0.0018
Easting (M)	509,800.3420 0.0018
Elevation (M)*	78.396

Northing (SFT)	339,658.0595	
Easting (SFT)	1,672,569.9554	
Elevation (SFT)*	257.204	

Convergence Angle	0	42	7.8656161
Scale Factor	0.999951810		
Elevation Adjust. Factor	0.9999876973		
Combined Adjust. Factor	0.9999395079		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)
Latitude	35 15 37.6061184
Longitude	90 47 35.8367100
Ellipsoid Height:	51.202
Grid Northing (Meters)	103,527.9791
Grid Easting (Meters)	509,800.3080

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 64, LOCATED ON THE NORTHWEST SIDE OF WYNNE, GO NORTH ON STATE HIGHWAY 1 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.11 METERS EAST OF THE CENTER OF STATE HIGHWAY 1 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "190001A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	190001
Geodetic Azimuth	359 50 23.39677
Grid Azimuth	359 08 15.53207

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 BRINKLEYPORT</p> <p>Ref Mon # 2 NEWSPORT</p> <p>Ref Mon # 3 DAWSEY</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM C333 AND E333 IN APRIL 2021 BY S5101 DURING JOB 110808.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190002	Date Monumented 4/27/1999	Monumented By AHTD	County CROSS	Route 1	Job Number: 001853
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	108,934.8801	
Easting (M)	509,923.5070	
Elevation (M)*	78.886	
Northing (SFT)	357,397.1858	
Easting (SFT)	1,672,974.0392	
Elevation (SFT)*	258.812	

Convergence Angle	0	42	12.2289916
Scale Factor	0.999947395		
Elevation Adjust. Factor	0.9999876204		
Combined Adjust. Factor	0.9999350160		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing) Ref Mon # 1 BRINKLEYPORT Ref Mon # 2 NEWSPORT Ref Mon # 3 DAWSEY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">AZ Mark Station</th> <td style="text-align: center;">190002A</td> </tr> <tr> <th style="text-align: center;">Geodetic Azimuth</th> <td style="text-align: center;">46 59 08.374232</td> </tr> <tr> <th style="text-align: center;">Grid Azimuth</th> <td style="text-align: center;">46 16 56.114219</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px; vertical-align: top;">Elevations based on 3 wire from NGS point A 182</td> </tr> </table>	AZ Mark Station	190002A	Geodetic Azimuth	46 59 08.374232	Grid Azimuth	46 16 56.114219	Comments	Elevations based on 3 wire from NGS point A 182
AZ Mark Station	190002A								
Geodetic Azimuth	46 59 08.374232								
Grid Azimuth	46 16 56.114219								
Comments									
Elevations based on 3 wire from NGS point A 182									

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190002A	Date Monumented 4/27/1999	Monumented By AHTD	County CROSS	Route 1	Job Number: 001853
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 109,315.3601		Latitude 35 18 45.1841400
Easting (M) 510,321.4090		Longitude 90 47 12.4006740
Elevation (M)* 79.857		Ellipsoid Height (M): 52.633
Northing (SFT) 358,645.4773		Geoid Height (M): -27.190
Easting (SFT) 1,674,279.4894		
Elevation (SFT)* 261.998		

Convergence Angle 0 42 21.5022394	Scale Factor 0.999947115
Elevation Adjust. Factor 0.9999874680	Combined Adjust. Factor 0.9999345837

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks								
Description			Azimuth		Distance			
					Meters	Feet		
MK # 1	CMP	140	7.47	24.5			AZ Mark Station	190002
MK # 2	NONE						Geodetic Azimuth	226 59 17.58556
MK # 3	NONE						Grid Azimuth	226 16 56.11422

Area Reference Monuments (used for Processing) Ref Mon # 1 BRINKLEYPORT Ref Mon # 2 NEWSPORT Ref Mon # 3 DAWSEY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevations based on 3 wire from NGS point A 182</td> </tr> </table>	Comments	Elevations based on 3 wire from NGS point A 182
Comments			
Elevations based on 3 wire from NGS point A 182			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190003	Date Monumented 4/27/1999	Monumented By AHTD	County CROSS	Route 1	Job Number: 001853
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	115,616.3830	
Easting (M)	511,713.1980	
Elevation (M)*	81.334	
Northing (SFT)	379,318.0832	
Easting (SFT)	1,678,845.7171	
Elevation (SFT)*	266.843	

Convergence Angle	0	42	55.3742453
Scale Factor	0.999942941		
Elevation Adjust. Factor	0.9999872362		
Combined Adjust. Factor	0.9999301779		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	250	7.46	24.5
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="BRINKLEYPORT"/> Ref Mon # 2 <input type="text" value="NEWSPORT"/> Ref Mon # 3 <input type="text" value="DAWSEY"/>	<input type="text" value="Elevations based on 3 wire from NGS point U 182"/>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190003A	Date Monumented 4/27/1999	Monumented By AHTD	County CROSS	Route 1	Job Number: 001853
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 115,233.3600		Geoid Datum:
Easting (M) 511,676.6920		Latitude 35 21 56.6617140
Elevation (M)* 82.274		Longitude 90 46 15.8267784
Northing (SFT) 378,061.4486		Ellipsoid Height (M): 54.968
Easting (SFT) 1,678,725.9470		Geoid Height (M): -27.260
Elevation (SFT)* 269.927		

Convergence Angle 0 42 54.4225399	Location Description
Scale Factor 0.999943167	<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 42, LOCATED IN CHERRY VALLEY, GO SOUTH ON STATE HIGHWAY 1 FOR 4.46 KM (2.77 MI) TO THE STATION ON THE RIGHT JUST SOUTH OF A BRIDGE. THE STATION IS 9.65 METERS NORTH OF A GRAVEL ENTRANCE TO A LAWN, 6.60 METERS WEST OF THE CENTER OF STATE HIGHWAY 1, 6.45 METERS SOUTH OF THE SOUTHWEST CORNER OF A BRIDGE AND 0.70 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190003A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 0.9999870887	
Combined Adjust. Factor 0.9999302564	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station 190003
MK # 2	NONE				Geodetic Azimuth 6 09 34.005028
MK # 3	NONE				Grid Azimuth 5 26 39.579959

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 BRINKLEYPORT</p> <p>Ref Mon # 2 NEWSPORT</p> <p>Ref Mon # 3 DAWSEY</p>	<p style="text-align: center;">Comments</p> <p>Elevations based on 3 wire from NGS point U 182</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190004	Date Monumented 4/27/1999	Monumented By AHTD	County CROSS	Route 1	Job Number: 001853,110622
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	118,809.4365	0.0020	
Easting (M)	512,189.4816	0.0020	
Elevation (M)*	80.371	0.0014	
Northing (SFT)	389,793.9596		
Easting (SFT)	1,680,408.3242		
Elevation (SFT)*	263.684		

Convergence Angle	0	43	7.2763626
Scale Factor	0.999941195		
Elevation Adjust. Factor	0.9999873873		
Combined Adjust. Factor	0.9999285831		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	23	52.4863752
Longitude	90	45	53.7384456
Ellipsoid Height:	53.034		
Grid Northing (Meters)	118,809.4231		
Grid Easting (Meters)	512,189.4540		

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	MAN HOLE COVER	219	14.25	46.8	AZ Mark Station 190004A
MK # 2	TELEPHONE JUNCTION BOX	52	21.60	70.9	Geodetic Azimuth 43 57 27.092191
MK # 3	NONE				Grid Azimuth 43 14 19.792303

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	Position updated by static GPS, elevation updated by three wire elevation using NGS BM P 242 by crew S5113 in May 2017
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 DAWSEY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190004A	Date Monumented 4/27/1999	Monumented By AHTD	County CROSS	Route 1	Job Number: 001853, 110622
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	119,296.6223 0.0020
Easting (M)	512,647.6031 0.0020
Elevation (M)*	83.123
Northing (SFT)	391,392.3350
Easting (SFT)	1,681,911.3445
Elevation (SFT)*	272.713

Convergence Angle	0 43 17.9817959
Scale Factor	0.999940953
Elevation Adjust. Factor	0.9999869554
Combined Adjust. Factor	0.9999279092

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35 24 8.1074124		
Longitude	90 45 35.3409372		
Ellipsoid Height:	55.788		
Grid Northing (Meters)	119,296.6141		
Grid Easting (Meters)	512,647.5780		

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	FIRE HYDRANT	47	30.90 101.4
MK # 2	NONE		
MK # 3	NONE		

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 30%;">Ref Mon # 1</td><td>BRINKLEYPORT</td></tr> <tr> <td>Ref Mon # 2</td><td>NEWSPORT</td></tr> <tr> <td>Ref Mon # 3</td><td>DAWSEY</td></tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	BRINKLEYPORT	Ref Mon # 2	NEWSPORT	Ref Mon # 3	DAWSEY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Position updated by static GPS, elevation updated by three wire elevation using NGS BM P 242 by crew S5113 in May 2017</td> </tr> </table>	Comments	Position updated by static GPS, elevation updated by three wire elevation using NGS BM P 242 by crew S5113 in May 2017
Area Reference Monuments (used for Processing)											
Ref Mon # 1	BRINKLEYPORT										
Ref Mon # 2	NEWSPORT										
Ref Mon # 3	DAWSEY										
Comments											
Position updated by static GPS, elevation updated by three wire elevation using NGS BM P 242 by crew S5113 in May 2017											

Location Description
<p>THE STATION IS LOCATED IN CHERRY VALLEY, AT THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 42. THE STATION IS 12.72 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 1, 11.69 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 42 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190004A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	190004
Geodetic Azimuth	223 57 37.74955
Grid Azimuth	223 14 19.79230

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190005	Date Monumented 5/18/1999	Monumented By AHTD	County CROSS	Route 64	Job Number: 0334,110288,Mobie LiDAR-C
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	104,461.9081	
Easting (M)	533,609.7540	
Elevation (M)*	65.320	
Northing (SFT)	342,722.1102	
Easting (SFT)	1,750,684.6679	
Elevation (SFT)*	214.304	

Convergence Angle	0	51	16.2616521
Scale Factor	0.999951276		
Elevation Adjust. Factor	0.9999897493		
Combined Adjust. Factor	0.9999410258		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE CORNER POST	127	4.45	14.6
MK # 2	TELEPHONE JUNCTION BOX	279	28.00	91.9
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 BRINKLEYPORT Ref Mon # 2 DAWSEY Ref Mon # 3 MEM 2	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	35 15 57.4138044
Longitude	90 31 53.4107892
Ellipsoid Height (M):	38.088
Geoid Height (M):	-27.204

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND U.S. HIGHWAY 64B, LOCATED ON THE EAST SIDE OF PARKIN, GO EAST ON U.S. HIGHWAY 64 FOR 0.45 KM (0.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.45 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190005 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	190005A
Geodetic Azimuth	285 45 37.42491
Grid Azimuth	284 54 21.20661

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190005A RESET	9/25/2000	AHTD	CROSS	64	1,110288,Mobie LiDAR-CLS,

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	104,591.5025	
Easting (M)	533,122.9858	
Elevation (M)*	65.102	
Northing (SFT)	343,147.2878	
Easting (SFT)	1,749,087.6626	
Elevation (SFT)*	213.590	

Convergence Angle	0	51	5.1001790
Scale Factor	0.999951157		
Elevation Adjust. Factor	0.9999897834		
Combined Adjust. Factor	0.9999409409		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	16	1.8534972
Longitude	90	32	12.5924532
Ellipsoid Height:	37.861		
Grid Northing (Meters)	104,591.4925		
Grid Easting (Meters)	533,122.9721		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF A BRICK SIGN FOR PARKIN	113	21.98	72.1
MK # 2	FIRE HYDRANT	139	18.28	60.0
MK # 3	GUY POLE	148	16.95	55.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 180004 Ref Mon # 2 W 15 OFFSET Ref Mon # 3 MEM 2	3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment. Superseded ELEV. 213.359(65.032m)

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190006	Date Monumented 3/6/2000	Monumented By AHTD	County CROSS	Route 1	Job Number: R10071, 012240,110574
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	94,430.7554	0.0020			
Easting (M)	509,422.1899	0.0020			
Elevation (M)*	76.583				

Northing (SFT)	309,811.5700				
Easting (SFT)	1,671,329.3014				
Elevation (SFT)*	251.257				

Convergence Angle	0	41	56.6053023		
Scale Factor	0.999960855				
Elevation Adjust. Factor	0.9999879817				
Combined Adjust. Factor	0.9999488372				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (1997)				
Latitude	35	10	42.5727624		
Longitude	90	47	55.1878332		
Ellipsoid Height:	49.597				
Grid Northing (Meters)	94,430.7521				
Grid Easting (Meters)	509,422.1520				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	GUY POLE	182	25.75	84.5	
MK # 2	PUNCH IN TOP OF METAL GUARD RAIL POS	81	6.00	19.7	
MK # 3	WEST END OF CMP	104	18.63	61.1	

Area Reference Monuments (used for Processing) Ref Mon # 1 BRINKLEYPORT Ref Mon # 2 NEWSPORT Ref Mon # 3 MEM2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevations based on 3 wire from NGS point H 175</td> </tr> </table>	Comments	Elevations based on 3 wire from NGS point H 175
Comments			
Elevations based on 3 wire from NGS point H 175			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190006A	Date Monumented 3/6/2000	Monumented By AHTD	County CROSS	Route 1	Job Number: R10071, 012240,110574
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	94,449.4636 0.0020
Easting (M)	508,821.9622 0.0020
Elevation (M)*	75.896

Northing (SFT)	309,872.9485	
Easting (SFT)	1,669,360.0543	
Elevation (SFT)*	249.001	

Convergence Angle	0 41	42.8072194
Scale Factor	0.999960827	
Elevation Adjust. Factor	0.9999880896	
Combined Adjust. Factor	0.9999489171	

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)
Latitude	35 10 43.4170848
Longitude	90 48 18.9013356
Ellipsoid Height:	48.909
Grid Northing (Meters)	94,449.4691
Grid Easting (Meters)	508,821.8900

Location Description

TO REACH THE STATION FROM THE CROSS-ST. FRANCIS COUNTY LINE, GO NORTH ON STATE HIGHWAY 1 FOR 3.38 KM (2.10 MI) TO THE JUNCTION OF COUNTY ROAD 652 ON THE LEFT, GO LEFT, WEST ON COUNTY ROAD 652 FOR 0.27 KM (0.17 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.35 METERS NORTH OF THE CENTER OF COUNTY ROAD 652, 10.40 METERS EAST OF THE CENTER OF A FEILD ENTRANCE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190006A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 600.581 METERS.

Location Reference Marks

	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TELEPHONE JUNCTION BOX	267	15.85	52.0	190006
MK # 2	EAST END OF CMP	250	7.20	23.6	92 28 52.392901
MK # 3	NONE				91 47 09.518922

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 BRINKLEYPORT</p> <p>Ref Mon # 2 NEWSPORT</p> <p>Ref Mon # 3 MEM2</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; padding: 5px; min-height: 100px;"> Elevations based on 3 wire from NGS point H 175 </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190007	Date Monumented 3/6/2000	Monumented By AHTD	County CROSS	Route 1	Job Number: R10071
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 99,598.8231		Latitude 35 13 29.8634052
Easting (M) 510,430.2820		Longitude 90 47 12.8299452
Elevation (M)* 80.752		Ellipsoid Height (M): 53.674
		Geoid Height (M): -27.077

Northing (SFT) 326,767.1388		
Easting (SFT) 1,674,636.6835		
Elevation (SFT)* 264.935		

Convergence Angle	0	42	21.2524469
Scale Factor	0.999955478		
Elevation Adjust. Factor	0.9999873275		
Combined Adjust. Factor	0.9999428060		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	67	17.50	57.4
MK # 2	NORTHWEST CORNER OF METAL RAILING	125	9.85	32.3
MK # 3	GUY POLE	290	24.50	80.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	Elevations based on 3 wire from NGS point W 15
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 MEM2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190008	Date Monumented 1/7/2003	Monumented By AHTD	County CROSS	Route N/A	Job Number: 110423
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	101,554.9651	
Easting (M)	492,199.5140	
Elevation (M)*		
Northing (SFT)	333,184.9147	
Easting (SFT)	1,614,824.5722	
Elevation (SFT)*		

Convergence Angle	0	35	22.2165924
Scale Factor	0.999953417		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER WELL	133	7.40	24.3
MK # 2	POWER POLE TO WATER WELL	165	7.60	24.9
MK # 3	COMBINATION POLE	251	15.90	52.2

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>BUTLER</td> </tr> <tr> <td>Ref Mon # 2</td> <td>480016</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MEM 2</td> </tr> </table>	Ref Mon # 1	BUTLER	Ref Mon # 2	480016	Ref Mon # 3	MEM 2	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	BUTLER						
Ref Mon # 2	480016						
Ref Mon # 3	MEM 2						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 14 40.0237584
Longitude	90 59 12.9476328
Ellipsoid Height (M):	38.867
Geoid Height (M):	-27.134

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HWY-64, HWY-49 AND A RAILROAD CROSSING IN FAIROAKS, GO EAST ON HWY-64 FOR 2.45 MILES TO COUNTY ROAD 521 (BOECKMAN ROAD) ON THE RIGHT. TURN RIGHT (SOUTH) ON "BOECKMAN ROAD" AND GO 0.47 MILES TO THE STATION ON THE LEFT NEAR AN IRRIGATION WELL. 15.1 METERS NORTH OF THE CENTER OF A FIELD ROAD TO THE WELL, 9.90 METERS EAST OF THE CENTER OF THE COUNTY ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190008 2003"AND SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	190008A
Geodetic Azimuth	358 54 50
Grid Azimuth	358 19 28

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190008A	Date Monumented 1/7/2003	Monumented By AHTD	County CROSS	Route 64	Job Number: 110423
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,342.2501	
Easting (M)	492,176.4830	
Elevation (M)*		
Northing (SFT)	335,767.8655	
Easting (SFT)	1,614,749.0113	
Elevation (SFT)*		

Convergence Angle	0	35	21.8729218
Scale Factor	0.999952694		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	89	20.20	66.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER	
Ref Mon # 2 480016	
Ref Mon # 3 MEM 2	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 15 5.5774908
Longitude	90 59 13.5382344
Ellipsoid Height (M):	38.799
Geoid Height (M):	-27.141

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-64, HWY-49 AND A RAILROAD CROSSING IN FAIROAKS, GO EAST ON HWY-64 FOR 2.40 MILES TO THE STATION ON THE RIGHT. 29.0 METERS WEST OF THE CENTER OF COUNTY ROAD 521, 19.8 METERS SOUTH OF THE CENTER OF HWY-64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190008A 2003" AND SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 190009	Date Monumented 1/7/2003	Monumented By AHTD	County CROSS	Route 193	Job Number: 110423
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	101,986.5221	
Easting (M)	497,204.2030	
Elevation (M)*		
Northing (SFT)	334,600.7813	
Easting (SFT)	1,631,244.1227	
Elevation (SFT)*		

Convergence Angle	0	37	17.5117438
Scale Factor	0.999953067		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF HWY-64 AND HWY-193 SOUTH IN HAMLIN, GO SOUTH ON HWY-193 FOR 0.25 MILES TO THE STATION ON THE LEFT. 16.35 METERS EAST OF THE CENTER OF HWY-193 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190009 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	COMBINATION POLE	37	20.00	65.6		190009A
MK # 2						358 05 28
MK # 3						357 28 11

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER	
Ref Mon # 2 480016	
Ref Mon # 3 MEM 2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190009A	Date Monumented 1/7/2003	Monumented By AHTD	County CROSS	Route 193	Job Number: 110423
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,385.8271	
Easting (M)	497,186.5570	
Elevation (M)*		
Northing (SFT)	335,910.8344	
Easting (SFT)	1,631,186.2291	
Elevation (SFT)*		

Convergence Angle	0	37	17.2052776
Scale Factor	0.999952703		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	310	5.30	17.4
MK # 2	TELEPHONE PEDESTAL	15	2.80	9.2
MK # 3	WATER METER	100	6.70	22.0

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>BUTLER</td> </tr> <tr> <td>Ref Mon # 2</td> <td>480016</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MEM 2</td> </tr> </table>	Ref Mon # 1	BUTLER	Ref Mon # 2	480016	Ref Mon # 3	MEM 2	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	BUTLER						
Ref Mon # 2	480016						
Ref Mon # 3	MEM 2						

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 15 5.2736148

Longitude 90 55 55.3383228

Ellipsoid Height (M): 38.935

Geoid Height (M): -27.126

Location Description

THE STATION IS LOCATED IN THE SOUTHEAST CORNER OF THE JUNCTION OF HWY-64 AND HWY-193 IN HAMLIN ACROSS HWY-64 FROM THE "HAMLIN TRACTOR AND AUTO PARTS STORE". 31.3 METERS SOUTH OF THE CENTER OF HWY-64, 13.3 METERS EAST OF THE CENTER OF HWY-193 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190009A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190010	Date Monumented 1/7/2003	Monumented By AHTD	County CROSS	Route 64	Job Number: 110423
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,511.0292	
Easting (M)	503,253.8970	
Elevation (M)*		
Northing (SFT)	336,321.6016	
Easting (SFT)	1,651,092.1604	
Elevation (SFT)*		

Convergence Angle	0	39	36.8948273
Scale Factor	0.999952651		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WATER WELL	288	24.10	79.1	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: BUTLER	
Ref Mon # 2: 480016	
Ref Mon # 3: MEM 2	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 15 7.1340732
Longitude	90 51 55.2803076
Ellipsoid Height (M):	42.197
Geoid Height (M):	-27.117

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-64 AND HWY-193 NORTH JUST EAST OF HAMLIN, GO EAST ON HWY-64 FOR 2.95 MILES TO THE STATION ON THE LEFT JUST PAST AN IRRIGATION WELL. 15.5 METERS NORTH OF THE CENTER OF HWY-64, 12.8 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190010 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	190010A
Geodetic Azimuth	268 58 30
Grid Azimuth	268 18 54

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190010A	Date Monumented 1/7/2003	Monumented By AHTD	County CROSS	Route 64	Job Number: 110423
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,491.8352	
Easting (M)	502,601.4790	
Elevation (M)*		
Northing (SFT)	336,258.6293	
Easting (SFT)	1,648,951.6857	
Elevation (SFT)*		

Convergence Angle	0	39	21.8724861
Scale Factor	0.999952661		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WATER METER	309	4.50	14.8	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER	
Ref Mon # 2 480016	
Ref Mon # 3 MEM 2	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 15 6.7544568
Longitude	90 52 21.0963648
Ellipsoid Height (M):	42.884
Geoid Height (M):	-27.117

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-64 AND HWY-193 NORTH JUST EAST OF HAMLIN, GO EAST ON HWY-64 FOR 2.55 MILES TO THE STATION ON THE LEFT NORTHWEST AND ACROSS HWY-64 FROM THE "ROLFE CHAPEL ASSEMBLY OF GOD" CHURCH. 15.5 METERS NORTH OF THE CENTER OF HWY-64, 10.3 METERS WEST OF A GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190010A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	190010
Geodetic Azimuth	88 58 15
Grid Azimuth	88 18 54

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190011	Date Monumented 1/7/2003	Monumented By AHTD	County CROSS	Route N/A	Job Number: 110423
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,398.5741	
Easting (M)	509,018.3820	
Elevation (M)*		
Northing (SFT)	335,952.6552	
Easting (SFT)	1,670,004.4749	
Elevation (SFT)*		

Convergence Angle	0	41	49.5484778
Scale Factor	0.999952815		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE WESTERNMOST ENTRANCE TO THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 1 HEADQUARTERS IN WYNNE, GO SOUTH ACROSS THE PAVED PARKING LOT FOR 0.15 MILES TO A GRAVEL PARKING LOT, CONTINUE AHEAD (SOUTH) ABOUT 290 FEET TO THE PERIMETER FENCE AND THE STATION. 54.1 METERS EAST OF THE SOUTHWEST CORNER OF THE PERIEMETER FENCE, 0.85 METERS NORTH OF THE PERIMETER FENCE AND 0.70 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190011 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: BUTLER</p> <p>Ref Mon # 2: 480016</p> <p>Ref Mon # 3: MEM 2</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190011A	Date Monumented 1/7/2003	Monumented By AHTD	County CROSS	Route 64	Job Number: 110423
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,823.8161	
Easting (M)	509,014.0390	
Elevation (M)*		
Northing (SFT)	337,347.8033	
Easting (SFT)	1,669,990.2263	
Elevation (SFT)*		

Convergence Angle	0	41	49.5676057
Scale Factor	0.999952430		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	275	21.80	71.5
MK # 2	FENCE CORNER	273	49.20	161.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER	
Ref Mon # 2 480016	
Ref Mon # 3 MEM 2	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 15 15.0692976
Longitude	90 48 7.2806904
Ellipsoid Height (M):	47.273
Geoid Height (M):	-27.117

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-64 AND HWY-1 NORTH ON THE WEST SIDE OF WYNNE, GO WEST ON HWY-64 FOR 0.45 MILES TO THE STATION ON THE RIGHT. 57.8 METERS EAST OF A GRAVEL DRIVEWAY, 16.8 METERS SOUTH OF THE CENTER OF HWY-64 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190011A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190012	Date Monumented 6/5/2012	Monumented By AHTD	County CROSS	Route 64	Job Number: 110588
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	104,859.7747	
Easting (M)	532,490.4745	
Elevation (M)*	65.383	
Northing (SFT)	344,027.4442	
Easting (SFT)	1,747,012.4984	
Elevation (SFT)*	214.510	

Convergence Angle	0	50	50.6303511
Scale Factor	0.999950918		
Elevation Adjust. Factor	0.9999897394		
Combined Adjust. Factor	0.9999406579		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Center of Headwall	22	2.00	6.6	190005
MK # 2	18" Concrete Pipe	92	6.60	21.7	
MK # 3	Light pole	302	18.30	60.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190013	Date Monumented 1/14/2016	Monumented By AHTD	County CROSS	Route CR 652	Job Number: 012240,110574
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	94,457.7374	0.0020	
Easting (M)	507,252.8870	0.0020	
Elevation (M)*	71.800	0.0027	
Northing (SFT)	309,900.0935		
Easting (SFT)	1,664,212.1801		
Elevation (SFT)*	235.564		

Convergence Angle	0	41	6.7256446
Scale Factor	0.999960797		
Elevation Adjust. Factor	0.9999887324		
Combined Adjust. Factor	0.9999495298		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	270	17.70	58.1
MK # 2	18" CORRUGATED METAL PIPE	123	9.10	29.9
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Three wire elevation based on NGS benchmarks J 175 - RV220 by crew S5102 in January 2016.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190013A	Date Monumented 1/14/2016	Monumented By AHTD	County CROSS	Route CR 652	Job Number: 012240,110574
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	95,141.2982	0.0020	
Easting (M)	507,259.1170	0.0020	
Elevation (M)*	71.182	0.0030	
Northing (SFT)	312,142.7425		
Easting (SFT)	1,664,232.6197		
Elevation (SFT)*	233.535		

Convergence Angle	0	41	7.0569431
Scale Factor	0.999960047		
Elevation Adjust. Factor	0.9999888294		
Combined Adjust. Factor	0.9999488769		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	271	1.30	4.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Three wire elevation based on NGS benchmarks J 175 - RV220 by crew S5102 in January 2016.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190014	Date Monumented 5/10/2017	Monumented By AHTD	County CROSS	Route CR 210	Job Number: 110622
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	122,541.6839	0.0020	
Easting (M)	512,895.0166	0.0020	
Elevation (M)*	78.006	0.0013	
Northing (SFT)	402,038.8413		
Easting (SFT)	1,682,723.0670		
Elevation (SFT)*	255.925		

Convergence Angle	0	43	24.6322745
Scale Factor	0.999939471		
Elevation Adjust. Factor	0.9999877584		
Combined Adjust. Factor	0.9999272302		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>To reach the station From poinsett and cross county line go south on hwy-1 for 1.1 miles to cross county road 210 go west on county road 210 for 0.25 of a mile to the sta on the right. Stamped 190014 the point is 11ft north of the sign post. 5ft ne of south end of 18in steel pipe.</p>				

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	sign post		3.35	11.0	
MK # 2	18" steel pipe		0.15	0.5	
MK # 3					
AZ Mark Station					
Geodetic Azimuth					
Grid Azimuth					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB Ref Mon # 2 ARWY Ref Mon # 3 TN45	Elevation by three wire using NGS P 242 by Crew S5113 in May 2017.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190014A	Date Monumented 5/10/2017	Monumented By AHTD	County CROSS	Route CR 210	Job Number: 110622
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	122,539.2260	0.0020			
Easting (M)	512,485.2652	0.0020			
Elevation (M)*	76.826	0.0000			
Northing (SFT)	402,030.7773				
Easting (SFT)	1,681,378.7409				
Elevation (SFT)*	252.055				

Convergence Angle	0	43	15.1790718
Scale Factor	0.999939470		
Elevation Adjust. Factor	0.9999879436		
Combined Adjust. Factor	0.9999274143		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	sign post		10.36	34.0	
MK # 2	power pole		10.36	34.0	
MK # 3	36" cmp		4.27	14.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB Ref Mon # 2 ARWY Ref Mon # 3 TN45	Elevation by three wire using NGS P 242 by Crew S5113 in May 2017.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190015	Date Monumented 12/4/2019	Monumented By ARDOT	County CROSS	Route 364	Job Number: RBORNE 2020, 01X237, 1108
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	109,738.0114 0.0020
Easting (M)	508,920.8393 0.0020
Elevation (M)*	
Northing (SFT)	360,032.1257
Easting (SFT)	1,669,684.4536
Elevation (SFT)*	

Convergence Angle	0	41	49.3586122
Scale Factor	0.999946791		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	40	5.03	16.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPB	STATIC GPS DERIVED ELEV. 246.7459
Ref Mon # 2 ARPG	
Ref Mon # 3 AROC, ARWY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190015A	Date Monumented 12/4/2019	Monumented By ARDOT	County CROSS	Route 364	Job Number: RBORNE 2020, 01X237, 1108
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	109,448.8868 0.0020
Easting (M)	509,302.6068 0.0020
Elevation (M)*	

Northing (SFT)	359,083.5561	
Easting (SFT)	1,670,936.9691	
Elevation (SFT)*		

Convergence Angle	0	41	58.0717300
Scale Factor	0.999947007		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 364 AND STATE HIGHWAY 1, IN VANNDAL, GO WEST ON HIGHWAY 364 0.7 MILES TO THE MARK ON THE RIGHT, NORTHEAST 16.4' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 190015A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description	Azimuth	Distance	
		Meters Feet	
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	
Ref Mon # 1 ARPB	
Ref Mon # 2 ARPG	
Ref Mon # 3 AROC, ARWY	

Comments ELEV. 252.5579 U.S. FT. BASED ON DIGITAL LEVELS FROM GPS #190015 WHOSE ELEVATION IS STATIC GPS DERIVED

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190016	Date Monumented 12/4/2019	Monumented By ARDOT	County CROSS	Route 364	Job Number: RNE 2020, 01X224, 01X234,
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	110,750.5480 0.0020
Easting (M)	504,721.1391 0.0020
Elevation (M)*	
Northing (SFT)	363,354.0896
Easting (SFT)	1,655,905.9372
Elevation (SFT)*	

Convergence Angle	0	40	12.8862362
Scale Factor	0.999946028		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARPB</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARPG</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AROC, ARWY</td> </tr> </table>	Ref Mon # 1	ARPB	Ref Mon # 2	ARPG	Ref Mon # 3	AROC, ARWY	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>STATIC GPS DERIVED ELEV. 230.5524</td> </tr> </table>	Comments	STATIC GPS DERIVED ELEV. 230.5524
Ref Mon # 1	ARPB								
Ref Mon # 2	ARPG								
Ref Mon # 3	AROC, ARWY								
Comments									
STATIC GPS DERIVED ELEV. 230.5524									

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid18
Latitude	35 19 33.9348396
Longitude	90 50 53.4286788
Ellipsoid Height (M):	42.964 0.0070
Geoid Height (M):	-27.308 0.0070

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 364 AND STATE HIGHWAY 1, IN VANNDAL, GO WEST ON HIGHWAY 364 3.9 MILES TO THE MARK ON THE RIGHT, NORTH 15.9' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 190016" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190016A	Date Monumented 12/4/2019	Monumented By ARDOT	County CROSS	Route 364	Job Number: RNE 2020, 01X224, 01X234,
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	110,790.0317 0.0020
Easting (M)	505,209.2748 0.0020
Elevation (M)*	
Northing (SFT)	363,483.6290
Easting (SFT)	1,657,507.4291
Elevation (SFT)*	

Convergence Angle	0	40	24.1430599
Scale Factor	0.999946005		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						190016
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPB Ref Mon # 2 ARPG Ref Mon # 3 AROC, ARWY	ELEV. 228.7634 U.S. FT. BASED ON DIGITAL LEVELS FROM GPS #190016 WHOSE ELEVATION IS STATIC GPS DERIVED

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190017	Date Monumented 12/4/2019	Monumented By ARDOT	County CROSS	Route 42	Job Number: 110713, AIRBORNE 2020
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	114,772.8505 0.0040
Easting (M)	523,308.9833 0.0030
Elevation (M)*	
Northing (SFT)	376,550.5937
Easting (SFT)	1,716,889.5560
Elevation (SFT)*	

Convergence Angle	0 47 22.3968489
Scale Factor	0.999943538
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	POWER POLE	97	23.93 78.5
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG	STATIC GPS DERIVED ELEV. 213.5599
Ref Mon # 2 AROC	
Ref Mon # 3 ARP, ARWY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190017A	Date Monumented 12/4/2019	Monumented By ARDOT	County CROSS	Route 42	Job Number: 110713, AIRBORNE 2020
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	114,932.3106 0.0040
Easting (M)	523,731.7184 0.0030
Elevation (M)*	65.393
Northing (SFT)	377,073.7557
Easting (SFT)	1,718,276.4795
Elevation (SFT)*	214.542

Convergence Angle	0 47 32.1909047
Scale Factor	0.999943444
Elevation Adjust. Factor	0.9999897379
Combined Adjust. Factor	0.9999331824

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 163 AND STATE HIGHWAY 42, IN BIRDEYE, GO EAST ON HIGHWAY 42 3.3 MILES TO THE MARK ON THE LEFT, NORTH 31.0' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 190017A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 AROC Ref Mon # 3 ARPB, ARWY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;"> ELEV. BASED ON DIGITAL LEVELS FROM GPS #190017 WHOSE ELEVATION IS STATIC GPS DERIVED </td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM GPS #190017 WHOSE ELEVATION IS STATIC GPS DERIVED
Comments			
ELEV. BASED ON DIGITAL LEVELS FROM GPS #190017 WHOSE ELEVATION IS STATIC GPS DERIVED			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190018	Date Monumented 12/4/2019	Monumented By ARDOT	County CROSS	Route CR 310	Job Number: 110713, AIRBORNE 2020
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	124,632.2277	0.0030	
Easting (M)	520,551.1374	0.0020	
Elevation (M)*			
Northing (SFT)	408,897.5670		
Easting (SFT)	1,707,841.5233		
Elevation (SFT)*			

Convergence Angle	0	46	21.8984904
Scale Factor	0.999938690		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						190018
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG Ref Mon # 2 AROC Ref Mon # 3 ARP, ARWY	STATIC GPS DERIVED ELEV. 237.8781

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190018A	Date Monumented 12/4/2019	Monumented By ARDOT	County CROSS	Route CR 310	Job Number: 110713, AIRBORNE 2020
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	124,630.3934 0.0020
Easting (M)	521,041.2757 0.0020
Elevation (M)*	70.744
Northing (SFT)	408,891.5490
Easting (SFT)	1,709,449.5854
Elevation (SFT)*	232.101

Convergence Angle	0 46 33.2072137
Scale Factor	0.999938693
Elevation Adjust. Factor	0.9999888980
Combined Adjust. Factor	0.9999275917

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	260	13.02	42.7
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG	ELEV. BASED ON DIGITAL LEVELS FROM GPS #190018 WHOSE ELEVATION IS STATIC GPS DERIVED
Ref Mon # 2 AROC	
Ref Mon # 3 ARP, ARWY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190019	Date Monumented 4/6/2021	Monumented By ARDOT	County CROSS	Route CR 244	Job Number: 110804
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	110,446.3865	0.0030	
Easting (M)	500,699.5860	0.0030	
Elevation (M)*			
Northing (SFT)	362,356.1864		
Easting (SFT)	1,642,711.8917		
Elevation (SFT)*			

Convergence Angle	0	38	40.1545265
Scale Factor	0.999946211		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	156	22.07	72.4	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPB Ref Mon # 2 ARPG Ref Mon # 3 AROC, ARWY	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 19 25.5627120
Longitude	90 53 32.7891336
Ellipsoid Height (M):	41.518 0.0090
Geoid Height (M):	-27.307 0.0090

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 193 AND STATE HIGHWAY 364, NORTHEAST OF FAIR OAKS, GO EAST ON 364 1.205 MILES TO CR 244 AND TURN RIGHT (SOUTH) AND GO 0.05 MILES TO THE MARK ON THE RIGHT, 13' WEST OF THE C.L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 190019" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	190019A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190019A	Date Monumented 4/6/2021	Monumented By ARDOT	County CROSS	Route CR 244	Job Number: 110804
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	109,955.5595 0.0030
Easting (M)	500,709.4042 0.0030
Elevation (M)*	
Northing (SFT)	360,745.8648
Easting (SFT)	1,642,744.1036
Elevation (SFT)*	

Convergence Angle	0 38 40.2535159
Scale Factor	0.999946563
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks				
	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	12" CMP	292	2.50	8.2
MK # 2	POWER POLE	186	14.72	48.3
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPB	
Ref Mon # 2 ARPG	
Ref Mon # 3 AROC, ARWY	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 19 9.6328884
Longitude	90 53 32.6190192
Ellipsoid Height (M):	40.501 0.0090
Geoid Height (M):	-27.301 0.0090

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 193 AND STATE HIGHWAY 364, NORTHEAST OF FAIR OAKS, GO EAST ON 364 1.205 MILES TO CR 244 AND TURN RIGHT (SOUTH) AND GO 0.35 MILES TO THE MARK ON THE LEFT, 22.5' EAST OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 190019A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190020	Date Monumented 3/12/2021	Monumented By ARDOT	County CROSS	Route 64	Job Number: 110808
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	102,334.3323 0.0025
Easting (M)	512,037.2271 0.0023
Elevation (M)*	102.028
Northing (SFT)	335,741.8886
Easting (SFT)	1,679,908.8026
Elevation (SFT)*	334.737

Convergence Angle	0 42 59.0151430
Scale Factor	0.999952907
Elevation Adjust. Factor	0.9999839887
Combined Adjust. Factor	0.9999368965

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	79	11.90	39.0
MK # 2	SE COR. BRICK SIGN POST (CITY OF WYNN	305	8.80	28.9
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM C333 AND E333 IN APRIL 2021 BY S5101 DURING JOB 110808.</td> </tr> </table>	Comments	ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM C333 AND E333 IN APRIL 2021 BY S5101 DURING JOB 110808.
Comments			
ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM C333 AND E333 IN APRIL 2021 BY S5101 DURING JOB 110808.			

Location Description
FROM THE INTERSECTION OF U.S. HWY. 64 AND STATE HWY. 1 SOUTH IN WYNNE, CROSS COUNTY, AR. TRAVEL SE ALONG U.S. HWY. 64, 0.7 MILES TO THE STATION ON THE LEFT, 11.3 METERS NORTH OF THE CENTERLINE OF U.S. HWY 64, 18.3 METERS WEST OF THE CENTERLINE OF A PAVED DRIVEWAY LEADING NORTH. A STANDARD 3" ALUMINUM CAP STAMPED 190020, 2021 SET FLUSH WITH THE GROUND, ON TOP OF A 5/8" REBAR 4' IN LENGTH.

AZ Mark Station	190020A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190020A	Date Monumented 4/12/2021	Monumented By ARDOT	County CROSS	Route 64	Job Number: 110808
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	102,230.3920	0.0026			
Easting (M)	512,449.5706	0.0025			
Elevation (M)*	107.536				
Northing (SFT)	335,400.8778				
Easting (SFT)	1,681,261.6329				
Elevation (SFT)*	352.807				

Convergence Angle	0	43	8.4759709
Scale Factor	0.999953007		
Elevation Adjust. Factor	0.9999831244		
Combined Adjust. Factor	0.9999361322		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	309	18.60	61.0
MK # 2	WATER VALVE	123	21.30	69.9
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM C333 AND E333 IN APRIL 2021 BY S5101 DURING JOB 110808.</td> </tr> </table>	Comments	ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM C333 AND E333 IN APRIL 2021 BY S5101 DURING JOB 110808.
Comments			
ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM C333 AND E333 IN APRIL 2021 BY S5101 DURING JOB 110808.			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	35 14 54.4364880
Longitude	90 45 51.6758040
Ellipsoid Height (M):	80.311 0.0132
Geoid Height (M):	-27.210

Location Description
FROM THE INTERSECTION OF U.S. HWY. 64 AND STATE HWY. 1 SOUTH IN WYNNE, CROSS COUNTY, AR. TRAVEL SE ALONG U.S. HWY. 64, 1.0 MILES TO THE STATION ON THE LEFT, 14.9 METERS NORTH OF THE CENTERLINE OF U.S. HWY 64, 32.3 METERS EAST OF THE CENTERLINE OF A PAVED DRIVEWAY LEADING NORTH. A STANDARD 3" ALUMINUM CAP STAMPED 190020A, 2021 SET FLUSH WITH THE GROUND, ON TOP OF A 5/8" REBAR 4' IN LENGTH.

AZ Mark Station	190020
Geodetic Azimuth	
Grid Azimuth	

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200001	Date Monumented 1/6/1997	Monumented By AHTD	County DALLAS	Route 273	Job Number: 7810
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	527,424.5022	
Easting (M)	355,024.8320	
Elevation (M)*	120.567	
Northing (SFT)	1,730,391.8876	
Easting (SFT)	1,164,777.3030	
Elevation (SFT)*	395.560	

Convergence Angle	0	16	18.8507259
Scale Factor	0.999925789		
Elevation Adjust. Factor	0.9999810795		
Combined Adjust. Factor	0.9999068699		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	101	29.85	97.9
MK # 2	GUY POLE	142	37.00	121.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 WARRPORT	
Ref Mon # 2 TULIP	
Ref Mon # 3 S 197	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 48 52.4975796
Longitude	92 29 8.9137284
Ellipsoid Height (M):	93.793
Geoid Height (M):	-26.774

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167-79 & 79B AND STATE HIGHWAY 273 ON THE WEST SIDE OF FORDYCE GO WEST ON HWY-273 FOR 3.46 KM. (2.15 ML.) TO THE STATION ON THE RIGHT. 15.0 METERS NORTH OF THE CENTER OF HWY-273 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200001 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200001A	Date Monumented 1/6/1997	Monumented By AHTD	County DALLAS	Route 273	Job Number: 7810
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	527,416.0221	
Easting (M)	354,176.6800	
Elevation (M)*	108.852	
Northing (SFT)	1,730,364.0658	
Easting (SFT)	1,161,994.6576	
Elevation (SFT)*	357.125	

Convergence Angle	0	16	37.3089396
Scale Factor	0.999925797		
Elevation Adjust. Factor	0.9999829179		
Combined Adjust. Factor	0.9999087161		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	95	7.65	25.1
MK # 2	TELEPHONE JUNCTION BOX	112	6.60	21.7
MK # 3	EAST END OF 0.45m METAL PIPE	280	17.55	57.6

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>WARRPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>TULIP</td> </tr> <tr> <td>Ref Mon # 3</td> <td>S 197</td> </tr> </table>	Ref Mon # 1	WARRPORT	Ref Mon # 2	TULIP	Ref Mon # 3	S 197	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	WARRPORT						
Ref Mon # 2	TULIP						
Ref Mon # 3	S 197						

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 48 52.0904556
Longitude	92 29 41.8930404
Ellipsoid Height (M):	82.072
Geoid Height (M):	-26.780

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167-79 & 79B AND STATE HIGHWAY 273 ON THE WEST SIDE OF FORDYCE GO WEST ON HWY-273 FOR 4.35 KM. (2.70 ML.) TO THE STATION ON THE LEFT. 21.20 METERS EAST OF THE CENTER OF A FIELD ENTRANCE, 10.40 METERS SOUTH OF THE CENTER OF HWY-273 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200001A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200002	Date Monumented 1/6/1997	Monumented By AHTD	County Dallas	Route 79	Job Number: 001914,7810,070288,070287
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Zone Arkansas South	Zone Code 302	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 527,312.5251		Latitude 33 48 49.3615728
Easting (M) 358,387.2290		Longitude 92 26 58.1454888
Elevation (M)* 88.498		Ellipsoid Height (M): 62.520
		Geoid Height (M): -25.995

Northing (SFT) 1,730,024.5094		
Easting (SFT) 1,175,808.7671		
Elevation (SFT)* 290.346		

Convergence Angle 0 15 5.6609600		
Scale Factor 0.999925848		
Elevation Adjust. Factor 0.9999861120		
Combined Adjust. Factor 0.9999119611		

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167-79 & 79B AND STATE HIGHWAY 273 ON THE WEST SIDE OF FORDYCE GO NORTH ON U.S. 167&79 FOR 53.0 METERS TO THE STATION ON THE RIGHT NEAR THE RIGHT OF WAY FENCE. 53.0 METERS NORTH OF THE CENTER OF HWY-79B, 24.10 METERS SOUTHWEST OF THE CENTER OF A PAVED DRIVEWAY, 18.90 METERS SOUTHEAST OF THE CENTER OF THE NORTH BOUND LANE OF HWY-167 AND 0.95 METERS WEST-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200002 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Fire hydrant		183	9.40	30.8
MK # 2	Concrete pipe		230	30.20	99.1
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM, IULM,S 197,K 124</p> <p>Ref Mon # 2 700014,270005 070003,0700</p> <p>Ref Mon # 3 T 83 N 81 070005 LROC UAM</p>	<p style="text-align: center;">Comments</p> <p>Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200002A	Date Monumented 1/6/1997	Monumented By AHTD	County Dallas	Route 79	Job Number: 001914,7810,070287
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	527,618.7231	
Easting (M)	358,576.8540	
Elevation (M)*	87.359	
Northing (SFT)	1,731,029.0940	
Easting (SFT)	1,176,430.8952	
Elevation (SFT)*	286.610	

Convergence Angle	0	15	1.5631383
Scale Factor	0.999925664		
Elevation Adjust. Factor	0.9999862907		
Combined Adjust. Factor	0.9999119557		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Guy pole	320	27.40	89.9
MK # 2	Southeast end of a 12 inch concrete pipe	351	15.65	51.3
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124 Ref Mon # 2 700014,270005 070003,0700 Ref Mon # 3 T 83 N 81 070005 LROC UAM	Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 48 59.3271720
Longitude	92 26 50.8239060
Ellipsoid Height (M):	61.398
Geoid Height (M):	-25.995

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167-79 & 79B AND STATE HIGHWAY 273 ON THE WEST SIDE OF FORDYCE GO NORTHERLY ON U.S. HWY-167&79 FOR 0.41 KM. (0.25 MI.) TO THE "UNITED PENTECOSTAL CHURCH" AND THE STATION ON THE LEFT. 61.7 FEET NORTHWEST OF THE CENTER OF THE SOUTHBOUND LANE OF HWY-167, 60.7 feet SOUTHEAST OF THE ENTRANCE TO THE CHURCH, 57.4 Feet WEST OF THE CENTER OF A PAVED STREET AND 1.65 feet SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 inch CAP STAMPED "200002A 1997" SET ON TOP OF AN IRON ROD 4 feet LONG by 5/8 inch and DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200003	Date Monumented 1/7/1997	Monumented By AHTD	County Dallas	Route 167	Job Number: 001914,RX0028,070288
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	531,133.7621	
Easting (M)	362,086.4250	
Elevation (M)*	63.062	
Northing (SFT)	1,742,561.3512	
Easting (SFT)	1,187,945.2127	
Elevation (SFT)*	206.895	

Convergence Angle	0	13	45.4853370
Scale Factor	0.999923717		
Elevation Adjust. Factor	0.9999901037		
Combined Adjust. Factor	0.9999138214		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Fire hydrant	287	4.92	16.1	AZ Mark Station 200003A
MK # 2	Telephone junction box	354	18.75	61.5	Geodetic Azimuth 176 18 57
MK # 3	Combination pole	009	19.25	63.2	Grid Azimuth 176 32 43

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200003A	Date Monumented 1/7/1997	Monumented By AHTD	County Dallas	Route 167	Job Number: 001914,RX0028
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	530,773.2721
Easting (M)	362,108.1880
Elevation (M)*	64.645
Northing (SFT)	1,741,378.6435
Easting (SFT)	1,188,016.6135
Elevation (SFT)*	212.089

Convergence Angle	0	13	44.9801082
Scale Factor	0.999923901		
Elevation Adjust. Factor	0.9999898552		
Combined Adjust. Factor	0.9999137570		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Guy pole		114	1.00	3.3
MK # 2	Combination pole		173	16.55	54.3
MK # 3	Gas meter		276	29.60	97.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

Vertical Determined By: 3rd Order - 3 Wire Level

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 50 42.1978020

Longitude 92 24 33.9929172

Ellipsoid Height (M): 38.714

Geoid Height (M): -25.979

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 1.95 KM (1.21 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.75 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200003A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200004	Date Monumented 1/7/1997	Monumented By AHTD	County DALLAS	Route 167	Job Number: RX0028
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	533,833.1341	
Easting (M)	362,123.1390	
Elevation (M)*	72.360	
Northing (SFT)	1,751,417.5408	
Easting (SFT)	1,188,065.6652	
Elevation (SFT)*	237.401	

Convergence Angle	0	13	44.9210297
Scale Factor	0.999922434		
Elevation Adjust. Factor	0.9999886445		
Combined Adjust. Factor	0.9999110794		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	LIGHT POLE	348	23.85	78.2	AZ Mark Station 200004A
MK # 2	GUY POLE	49	11.20	36.7	Geodetic Azimuth 171 48 50.01921
MK # 3	GUY POLE	158	5.60	18.4	Grid Azimuth 172 02 34.93711

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MALEPORT	ELEVATION BY 3-WIRE LEVELING USING USC&GS BENCH MARK "HEYS" ELEVATION = 69.818 METERS NAVD88 DATUM.
Ref Mon # 2 WARRPORT	
Ref Mon # 3 TULIP	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200004A	Date Monumented 1/7/1997	Monumented By AHTD	County DALLAS	Route 167	Job Number: RX0028
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1986)		
Northing (M)	533,359.0731		
Easting (M)	362,189.4010		
Elevation (M)*	72.910		
Northing (SFT)	1,749,862.2257		
Easting (SFT)	1,188,283.0598		
Elevation (SFT)*	239.206		

Convergence Angle	0	13	43.4367052
Scale Factor	0.999922646		
Elevation Adjust. Factor	0.9999885582		
Combined Adjust. Factor	0.9999112051		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	159	1.25	4.1
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MALEPORT	ELEVATION BY 3-WIRE LEVELING USING USC&GS BENCH MARK "HEYS" ELEVATION = 69.818 METERS NAVD88 DATUM.
Ref Mon # 2 WARRPORT	
Ref Mon # 3 TULIP	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 52 6.1385592
Longitude	92 24 31.2353172
Ellipsoid Height (M):	46.194
Geoid Height (M):	-26.716

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 4.59 KM (2.85 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.60 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200004A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200005	Date Monumented 1/7/1997	Monumented By AHTD	County DALLAS	Route 167	Job Number: RX0028
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	538,589.9771	
Easting (M)	361,107.9390	
Elevation (M)*	63.632	
Northing (SFT)	1,767,023.9499	
Easting (SFT)	1,184,734.9632	
Elevation (SFT)*	208.766	

Convergence Angle	0	14	7.4564932
Scale Factor	0.999920612		
Elevation Adjust. Factor	0.9999900142		
Combined Adjust. Factor	0.9999106270		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	315	10.10	33.1	
MK # 2	GATE POST	188	28.00	91.9	
MK # 3	NORTH END OF 0.50 METER IN DIAMETER	155	24.40	80.1	

Area Reference Monuments (used for Processing) Ref Mon # 1 MALEPORT Ref Mon # 2 WARRPORT Ref Mon # 3 TULIP	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 54 55.7809416
Longitude	92 25 14.1515004
Ellipsoid Height (M):	36.914
Geoid Height (M):	-26.721

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 9.93 KM (6.17 MI) TO THE STATION ON THE LEFT. THE STATION IS 27.50 METERS NORTH-NORTHWEST OF THE CENTER OF A GRAVEL ROAD TO BARN, 13.70 METERS WEST-SOUTHWEST OF THE CENTER OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS EAST-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200005 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200005A	Date Monumented 1/7/1997	Monumented By AHTD	County DALLAS	Route 167	Job Number: RX0028
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	538,104.8351	
Easting (M)	361,208.0060	
Elevation (M)*	63.359	
Northing (SFT)	1,765,432.2798	
Easting (SFT)	1,185,063.2664	
Elevation (SFT)*	207.870	

Convergence Angle	0	14	5.2327416
Scale Factor	0.999920773		
Elevation Adjust. Factor	0.9999900570		
Combined Adjust. Factor	0.9999108308		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF A 0.50 METER IN DIAMETER	145	12.72	41.7
MK # 2	TELEPHONE JUNCTION BOX	175	27.69	90.9
MK # 3	POWER POLE	251	1.36	4.5

Area Reference Monuments (used for Processing) Ref Mon # 1 MALEPORT Ref Mon # 2 WARRPORT Ref Mon # 3 TULIP	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 54 40.0475844

Longitude 92 25 10.1783208

Ellipsoid Height (M): 36.628

Geoid Height (M): -26.720

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79 , LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 9.43 KM (5.86 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.063 METERS NORTHWEST OF THE CENTER OF GRAVEL ROAD, 14.06 METERS WEST-SOUTWEST OF THE CENTER OF U.S. HIGHWAY 167 AND 1.36 METERS EAST-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDAR 64mm CAP STAMPED "200005A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200011	Date Monumented 9/21/2005	Monumented By AHTD	County Dallas	Route n/a	Job Number: 001914
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	539,966.3591	
Easting (M)	360,795.6210	
Elevation (M)*	63.676	
Northing (SFT)	1,771,539.6298	
Easting (SFT)	1,183,710.2999	
Elevation (SFT)*	208.910	

Convergence Angle	0	14	14.3860404
Scale Factor	0.999920189		
Elevation Adjust. Factor	0.9999900073		
Combined Adjust. Factor	0.9999101971		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach the station from the junction of highways 79 and 167 on the north side of Fordyce go north on Hwy-167 for 7.05 miles to a gravel road, "Wells Road" on the left. Turn left on Wells road and go 0.05 miles to the station on the right. 17.6 feet north of the center of the road and 1.65 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "200011 2005" set on top of a 4 foot long by 5/8 inch rebar set just below the surface.</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					200011A
MK # 2					270 02 24
MK # 3					270 16 39

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200011A	Date Monumented 9/21/2005	Monumented By AHTD	County Dallas	Route NA	Job Number: 001914
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	539,968.7121
Easting (M)	360,309.7140
Elevation (M)*	62.971
Northing (SFT)	1,771,547.3496
Easting (SFT)	1,182,116.1200
Elevation (SFT)*	206.599

Convergence Angle	0 14 24.9755664
Scale Factor	0.999920189
Elevation Adjust. Factor	0.9999901178
Combined Adjust. Factor	0.9999103076

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	none		
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200012	Date Monumented 9/22/2005	Monumented By AHTD	County Dallas	Route 167	Job Number: 001914, 070291
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	558,260.8589	
Easting (M)	362,266.2820	
Elevation (M)*	56.981	
Northing (SFT)	1,831,560.8346	
Easting (SFT)	1,188,535.2935	
Elevation (SFT)*	186.945	

Convergence Angle	0	13	43.9286679
Scale Factor	0.999918988		
Elevation Adjust. Factor	0.9999910579		
Combined Adjust. Factor	0.9999100466		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>The station is located near the southern edge of the junction of highways 167 and 48 at Farindale. 54.13 feet west of the center of Hwy-167, 46.9 feet northeast of the center of Hwy-48 and 1.65 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "200012 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the grounds surface.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Sign "Farindale Liquor"	355	26.60	87.3
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM, IULM,S 197,K 124</p> <p>Ref Mon # 2 700014,270005 070003,0700</p> <p>Ref Mon # 3 T 83 N 81 070005 LROC UAM</p>	<p style="text-align: center;">Comments</p> <p>3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200012A	Date Monumented 9/22/2005	Monumented By AHTD	County Dallas	Route 167	Job Number: 001914
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	557,428.3680	
Easting (M)	362,272.2780	
Elevation (M)*	56.433	
Northing (SFT)	1,828,829.5707	
Easting (SFT)	1,188,554.9654	
Elevation (SFT)*	185.148	

Convergence Angle	0	13	43.7251523
Scale Factor	0.999918864		
Elevation Adjust. Factor	0.9999911439		
Combined Adjust. Factor	0.9999100086		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Right of way marker	354	14.75	48.4
MK # 2	Power pole with guy		26.80	87.9
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 5 7.3808484
Longitude	92 24 31.7506860
Ellipsoid Height (M):	30.424
Geoid Height (M):	-25.995

Location Description
<p>To reach the station from the southern most intersection of highways 167 and 48 at Farindale go south on Hwy-167 for 0.45 miles to the station on the left. 63.6 feet east of the center of Hwy-167 and 8.70 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "200012A 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the ground surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200013	Date Monumented 2/26/2007	Monumented By AHTD	County DALLAS	Route 9	Job Number: 070309
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	549,110.6990
Easting (M)	341,814.6620
Elevation (M)*	
Northing (SFT)	1,801,540.6850
Easting (SFT)	1,121,436.9369
Elevation (SFT)*	

Convergence Angle	0	21	9.2580601
Scale Factor	0.999918564		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND 8, IN PRINCETON, GO NORTH ON HIGHWAY 9 FOR 2.0 MILES TO THE STATION MARK ON THE RIGHT, NORTH 53.3 FEET OF THE CENTERLINE OF A GATED GRAVEL ROAD, EAST 27.7 FEET OF THE CENTERLINE OF STATE HIGHWAY 9 AND WEST 32.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "200013 2007" ON TOP OF A 4.0 FEET IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	174	23.59	77.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHP Ref Mon # 2 DQUA, MSCL Ref Mon # 3 N 81	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200013A	Date Monumented 2/26/2007	Monumented By AHTD	County DALLAS	Route 9	Job Number: 070309
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	548,652.5860	
Easting (M)	341,844.3750	
Elevation (M)*		
Northing (SFT)	1,800,037.6926	
Easting (SFT)	1,121,534.4203	
Elevation (SFT)*		

Convergence Angle	0	21	8.5484553
Scale Factor	0.999918598		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	113	8.96	29.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARHP
Ref Mon # 2	DQUA, MSCL
Ref Mon # 3	N 81

Comments

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 0 19.1813472
Longitude	92 37 46.5169980
Ellipsoid Height (M):	57.622
Geoid Height (M):	-26.154

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND 8, IN PRINCETON, GO NORTH ON HIGHWAY 9 FOR 1.75 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 91.9 FEET OF A 24 INCH CMP UNDER HIGHWAY 9, EAST 21.2 FEET OF THE CENTERLINE OF STATE HIGHWAY 9 AND WEST 30.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "200013A 2007" ON TOP OF A 4.0 FEET IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

AZ Mark Station	200013
Geodetic Azimuth	355 56 12
Grid Azimuth	356 17 20

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200014	Date Monumented 4/3/2017	Monumented By AHTD	County DALLAS	Route 8	Job Number: 070375
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	547,274.0849	0.0020			
Easting (M)	330,601.8093	0.0020			
Elevation (M)*					
Northing (SFT)	1,795,515.0602				
Easting (SFT)	1,084,649.4360				
Elevation (SFT)*					

Convergence Angle	0	25	13.5537724
Scale Factor	0.999918739		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	R/W MARKER	33			AZ Mark Station 200014A
MK # 2		24.38			Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARLR</td> </tr> </table>	Ref Mon # 1	ARCM	Ref Mon # 2	ARHP	Ref Mon # 3	ARLR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC GPS DERIVED ELEV. BASED ON CONSTRAINTS ON ORTHOMETRIC HTS. OF AHTD CORS SITES ARCM, ARHP & ARLR IN FINAL NETWORK ADJUSTMENT </td> </tr> </table>	Comments	STATIC GPS DERIVED ELEV. BASED ON CONSTRAINTS ON ORTHOMETRIC HTS. OF AHTD CORS SITES ARCM, ARHP & ARLR IN FINAL NETWORK ADJUSTMENT
Ref Mon # 1	ARCM								
Ref Mon # 2	ARHP								
Ref Mon # 3	ARLR								
Comments									
STATIC GPS DERIVED ELEV. BASED ON CONSTRAINTS ON ORTHOMETRIC HTS. OF AHTD CORS SITES ARCM, ARHP & ARLR IN FINAL NETWORK ADJUSTMENT									

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200014A	Date Monumented 4/3/2017	Monumented By AHTD	County DALLAS	Route 8	Job Number: 070375
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	547,118.1901 0.0020
Easting (M)	330,987.2748 0.0020
Elevation (M)*	

Northing (SFT)	1,795,003.5954	
Easting (SFT)	1,085,914.0841	
Elevation (SFT)*		

Convergence Angle	0	25	5.1223731
Scale Factor	0.999918757		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE SATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 8, SOUTH OF DELARK, GO EAST ON HIGHWAY 8 9.6 MILES TO THE MARK ON THE LEFT, 20' NORTH OF THE C/L OF THE HIGHWAY AND 14.8" SOUTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "200014A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)		Comments STATIC GPS DERIVED ELEV. BASED ON CONSTRAINTS ON ORTHOMETRIC HTS. OF AHTD CORS SITES ARCM, ARHP & ARLR IN FINAL NETWORK ADJUSTMENT
Ref Mon # 1	ARCM	
Ref Mon # 2	ARHP	
Ref Mon # 3	ARLR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200015	Date Monumented 12/6/2018	Monumented By ARDOT	County DALLAS	Route 9	Job Number: 070511
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	547,927.2870	0.0020			
Easting (M)	342,254.7331	0.0010			
Elevation (M)*					
Northing (SFT)	1,797,658.1074				
Easting (SFT)	1,122,880.7368				
Elevation (SFT)*					

Convergence Angle	0	20	59.5009340
Scale Factor	0.999918662		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF HEADWALL	110	4.96	16.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARGS Ref Mon # 2 ARLR Ref Mon # 3 ARMO	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC GPS DERIVED ELEV. BASED ON ORTOMETRIC HT. CONSTRAINTS ON CORS SITES ARGS, ARLR & ARMO. </td> </tr> </table>	Comments	STATIC GPS DERIVED ELEV. BASED ON ORTOMETRIC HT. CONSTRAINTS ON CORS SITES ARGS, ARLR & ARMO.
Comments			
STATIC GPS DERIVED ELEV. BASED ON ORTOMETRIC HT. CONSTRAINTS ON CORS SITES ARGS, ARLR & ARMO.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9N AND STATE HIGHWAY 8W, IN PRINCETON, GO NORTH ON HIGHWAY 9 1.25 MILES TO THE MARK ON THE RIGHT AND NORTHEAST 23' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2" CAP STAMPED "200015 2018" ON TOP OF A 2' FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	200015A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200015A	Date Monumented 12/6/2018	Monumented By ARDOT	County DALLAS	Route 9	Job Number: 070511
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	548,331.6088	0.0020			
Easting (M)	342,022.2905	0.0010			
Elevation (M)*					
Northing (SFT)	1,798,984.6199				
Easting (SFT)	1,122,118.1314				
Elevation (SFT)*					

Convergence Angle	0	21	4.6247561
Scale Factor	0.999918624		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	COMBINATION POLE	45	10.36	34.0	200015
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS	STATIC GPS DERIVED ELEV. BASED ON ORTOMETRIC HT. CONSTRAINTS ON CORS SITES ARGS, ARLR & ARMO.
Ref Mon # 2 ARLR	
Ref Mon # 3 ARMO	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210001	Date Monumented 1/11/1993	Monumented By AHTD	County DESHA	Route 65	Job Number: 20139
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	505,707.0122	
Easting (M)	457,334.9000	
Elevation (M)*	43.415	
Northing (SFT)	1,659,140.4225	
Easting (SFT)	1,500,439.5844	
Elevation (SFT)*	142.437	

Convergence Angle	0	20	44.9922403
Scale Factor	0.999944693		
Elevation Adjust. Factor	0.9999931868		
Combined Adjust. Factor	0.9999378802		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	105	37.67	123.6
MK # 2	NBC IN COMBINATION POLE	185	42.05	138.0
MK # 3	NBC IN COMBINATION POLE	253	41.42	135.9

Area Reference Monuments (used for Processing)	
Ref Mon # 1	CELLPORT
Ref Mon # 2	DUMAS
Ref Mon # 3	91090005

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210001A	Date Monumented 1/11/1993	Monumented By AHTD	County DESHA	Route 65	Job Number: 20139
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	505,303.6742				
Easting (M)	457,245.7790				
Elevation (M)*	43.047				
Northing (SFT)	1,657,817.1378				
Easting (SFT)	1,500,147.1933				
Elevation (SFT)*	141.230				

Convergence Angle	0	20	43.0043009
Scale Factor	0.999945152		
Elevation Adjust. Factor	0.9999932446		
Combined Adjust. Factor	0.9999383969		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>FROM THE JCT OF HWY. 65 AND HWY. 4 IN McGEHEE, GO NORTH ON HWY. 65 FOR 0.27 MILES TO THE STATION ON THE LEFT, THE STATION IS 90.16 FEET WEST OF THE CENTERLINE OF HWY. 65, 52.3 FEET SOUTH OF THE CENTERLINE OF BUSH STREET AND 5.1 FEET NORTH OF A METAL WITNESS POST AND SIGN.</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN COMBINATION POLE		338	28.95	95.0
MK # 2	NBC IN COMBINATION POLE		101	43.58	143.0
MK # 3	NBC IN POWER SERVICE POLE		125	10.75	35.3

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 CELLPORT</p> <p>Ref Mon # 2 DUMAS</p> <p>Ref Mon # 3 91090005</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210002	Date Monumented 1/11/1993	Monumented By AHTD	County DESHA	Route 65	Job Number: 20139
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	510,241.0062	
Easting (M)	454,392.5440	
Elevation (M)*	44.205	
Northing (SFT)	1,674,015.7012	
Easting (SFT)	1,490,786.2048	
Elevation (SFT)*	145.029	

Convergence Angle	0	19	41.6662343
Scale Factor	0.999939781		
Elevation Adjust. Factor	0.9999930628		
Combined Adjust. Factor	0.9999328443		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CPS IN SHOULDER OF HWY. 65	241	9.43	30.9
MK # 2	CPS IN SHOULDER OF HWY. 65	290	16.18	53.1
MK # 3	CPS IN SHOULDER OF HWY. 65	184	15.48	50.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CELLPORT	
Ref Mon # 2 DUMAS	
Ref Mon # 3 91090005	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	33 39 33.1500672
Longitude	91 24 48.7155672
Ellipsoid Height (M):	17.462
Geoid Height (M):	-26.743

Location Description
<p>FROM THE JCT. OF HWY. 65 AND HWY. 4 IN McGEHEE, GO NORTH ON HWY. 65 FOR 4.1 MILES TO THE STATION ON THE RIGHT, THE STATION IS 49.6 FEET EAST OF THE CENTERLINE OF HWY. 65, 19.6 FEET NORTH OF A FIELD ENTRANCE AND 1.75 FEET WEST OF A METAL WITNESS POST AND SIGN.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210002A	Date Monumented 1/11/1993	Monumented By AHTD	County DESHA	Route 65	Job Number: 20139
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	510,708.0732	
Easting (M)	454,098.9200	
Elevation (M)*	43.980	
Northing (SFT)	1,675,548.0702	
Easting (SFT)	1,489,822.8734	
Elevation (SFT)*	144.291	

Convergence Angle	0	19	35.3452755
Scale Factor	0.999939304		
Elevation Adjust. Factor	0.9999930982		
Combined Adjust. Factor	0.9999324026		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	327	25.08	82.3
MK # 2	NBC IN POWER POLE	346	31.26	102.6
MK # 3	CPS IN SHOULDER OF HWY. 65	188	15.22	49.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="CELLPORT"/> Ref Mon # 2 <input type="text" value="DUMAS"/> Ref Mon # 3 <input type="text" value="91090005"/>	

Vertical Determined By: LEVEL - Unkown Quality	
Elevation Datum: NGVD 29	
Geoid Datum:	
Latitude	33 39 48.3647436
Longitude	91 25 0.0092316
Ellipsoid Height (M):	17.239
Geoid Height (M):	-26.741

Location Description
FROM THE JCT. OF HWY. 65 AND HWY. 4 IN McGEHEE, GO NORTH ON HWY. 65 FOR 4.40 MILES TO THE STATION ON THE RIGHT, THE STATION IS 53.3 FEET EAST OF THE CENTERLINE OF HWY. 65, 18 FEET SOUTH OF A FIELD ENTRANCE AND 1.7 FEET WEST OF A METAL WITNESS POST AND SIGN.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210003	Date Monumented 8/13/1996	Monumented By AHTD	County DESHA	Route 65	Job Number: R20122,R20093,R20094
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	532,245.9930	
Easting (M)	448,254.5510	
Elevation (M)*	48.320	
Northing (SFT)	1,746,210.3954	
Easting (SFT)	1,470,648.4727	
Elevation (SFT)*	158.530	

Convergence Angle	0	17	30.7574019
Scale Factor	0.999923189		
Elevation Adjust. Factor	0.9999924171		
Combined Adjust. Factor	0.9999156067		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER WELL	HEAD	80.00	262.5
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Calculated by Jim and Brain. ELEVATION BY 3-WIRE USING TBM-1 ON JOB R20093 ELEVATION = 48.572 METERS.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210003A	Date Monumented 8/13/1996	Monumented By AHTD	County DESHA	Route 65	Job Number: R20122,R20093,R20094
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	531,736.4711	
Easting (M)	448,339.0563	
Elevation (M)*	48.287	
Northing (SFT)	1,744,538.7389	
Easting (SFT)	1,470,925.7205	
Elevation (SFT)*	158.422	

Convergence Angle	0	17	32.5408827
Scale Factor	0.999923438		
Elevation Adjust. Factor	0.9999924223		
Combined Adjust. Factor	0.9999158608		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	191	38.57	126.5
MK # 2	CENTER OF CONCRETE HEADWALL	252	17.08	56.0
MK # 3	ANTENNA POLE	77	51.50	169.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD MON 1	Calculated by Jim and Brain. ELEVATION BY 3-WIRE USING TBM-1 ON JOB R20093 ELEVATION = 48.572 METERS.
Ref Mon # 2 210004	
Ref Mon # 3 090007	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 51 11.9180592
Longitude	91 28 39.4239828
Ellipsoid Height (M):	22.338
Geoid Height (M):	-25.953

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 54-165 AND U.S. 65 IN THE CENTER OF DUMAS GO SOUTH ON HWY-65 FOR 3.46 KM (2.15 MI) TO THE STATION IN THE LEFT NEAR THE ENTRANCE TO THE GRASS LANDING STRIP. 15.44 METERS EAST OF THE CENTER OF HWY-65, 8.0 METERS NORTH OF THE GRAVEL ENTRANCE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210003A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 516.523 METERS. THIS STATION WAS UPDATED 4/19/00.</p>

AZ Mark Station	210003
Geodetic Azimuth	350 52 31.66651
Grid Azimuth	350 34 59.12977

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210004	Date Monumented 8/13/1996	Monumented By AHTD	County DESHA	Route 65	Job Number: R20122,R20092,R20093
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	538,086.0941
Easting (M)	446,238.7840
Elevation (M)*	48.780
Northing (SFT)	1,765,370.7937
Easting (SFT)	1,464,035.0772
Elevation (SFT)*	160.039

Convergence Angle	0 16 47.4853273
Scale Factor	0.999920790
Elevation Adjust. Factor	0.9999923449
Combined Adjust. Factor	0.9999131355

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 54-165 AND U.S. 65 IN DUMAS, GO NORTH ON U.S. HIGHWAY 65 FOR 3.45 KM (2.15 MI) TO THE STATION ON THE LEFT JUST SOUTH OF THE JUNCTION OF STATE HIGHWAY 159. THE STATION IS 21.31 METERS EAST OF THE CENTER OF STATE HIGHWAY 159, 14.07 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 65, AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210004 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p> <p>ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING N.O.A.A. BENCH MARK "K 292 1984" ELEVATION = 48.234 METERS.</p>	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	158	16.72	54.9
MK # 2	POWER POLW	308	19.91	65.3
MK # 3	SOUTHEAST END OF CULVERT	330	17.31	56.8

Area Reference Monuments (used for Processing)	
Ref Mon # 1	AHTD MON 1
Ref Mon # 2	J 112
Ref Mon # 3	K 124

Comments
<p>Calculated by Jim and Brain ELEVATION BASED ON NGS PT "K 292 1984" USING 3 WIRE LEVEL</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210004A	Date Monumented 8/13/1996	Monumented By AHTD	County DESHA	Route 65	Job Number: R20122,R20092,R20093
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	537,623.1241
Easting (M)	446,602.3260
Elevation (M)*	49.186
Northing (SFT)	1,763,851.8663
Easting (SFT)	1,465,227.7979
Elevation (SFT)*	161.371

Convergence Angle	0 16 55.3566707
Scale Factor	0.999920950
Elevation Adjust. Factor	0.9999922812
Combined Adjust. Factor	0.9999132318

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST END OF CULVERT	166	6.20	20.3
MK # 2	SOUTHEAST END OF CULVERT	156	18.00	59.1
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD MON 1 Ref Mon # 2 J 112 Ref Mon # 3 K 124	Calculated by Jim and Brain ELEVATION BASED ON NGS PT "K 292 1984" USING 3 WIRE LEVEL

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210005	Date Monumented 2/9/2000	Monumented By AHTD	County DESHA	Route 65	Job Number: R20094
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	527,196.0539
Easting (M)	449,079.9347
Elevation (M)*	48.973
Northing (SFT)	1,729,642.3868
Easting (SFT)	1,473,356.4191
Elevation (SFT)*	160.672

Convergence Angle	0 17 48.1606091
Scale Factor	0.999925940
Elevation Adjust. Factor	0.9999923146
Combined Adjust. Factor	0.9999182552

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:		LEVEL - Unkown Quality	
Elevation Datum:		NAVD 88	
Geoid Datum:			
Latitude	33 48	44.4214584	
Longitude	91 28	11.5161996	
Ellipsoid Height (M):	22.987		
Geoid Height (M):	-25.969		

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DREW-DESHA COUNTY LINE, LOCATED ON THE NORTHEAST SIDE OF WINCHESTER, GO NORTH ON U.S. HIGHWAY 65 FOR 3.54 KM (2.20 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.90 METERS EAST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210005 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 676.986 METERS.</p>

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					210005A
MK # 2	NONE					173 28 32.05214
MK # 3	NONE					173 10 43.88668

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD MON 1	
Ref Mon # 2 210004	
Ref Mon # 3 090007	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210005A	Date Monumented 2/9/2000	Monumented By AHTD	County DESHA	Route 65	Job Number: R20094
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	526,523.9087	
Easting (M)	449,160.3347	
Elevation (M)*	49.406	
Northing (SFT)	1,727,437.1905	
Easting (SFT)	1,473,620.1981	
Elevation (SFT)*	162.093	

Convergence Angle	0	17	49.8345062
Scale Factor	0.999926353		
Elevation Adjust. Factor	0.9999922466		
Combined Adjust. Factor	0.9999186002		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF CMP	125	3.60	11.8
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	AHTD MON 1
Ref Mon # 2	210004
Ref Mon # 3	090007

Comments

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 48 22.5913824

Longitude 91 28 8.5254456

Ellipsoid Height (M): 23.467

Geoid Height (M): -25.971

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DREW-DESHA COUNTY LINE, LOCATED ON THE NORTHEAST SIDE OF WINCHESTER, GO NORTH ON U.S. HIGHWAY 65 FOR 2.86 KM (1.78 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.00 METERS WEST OF THE CENTER OF U.S. HIGHWAY 65, 6.80 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210005A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 676.986 METERS.

AZ Mark Station	210005
Geodetic Azimuth	353 28 33.71629
Grid Azimuth	353 10 43.88668

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210006	Date Monumented 2/9/2000	Monumented By AHTD	County DESHA	Route 65	Job Number: 020238
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	511,982.8525	
Easting (M)	453,297.8958	
Elevation (M)*	43.867	
Northing (SFT)	1,679,730.4086	
Easting (SFT)	1,487,194.8465	
Elevation (SFT)*	143.920	

Convergence Angle	0	19	18.0982060
Scale Factor	0.999938029		
Elevation Adjust. Factor	0.9999931159		
Combined Adjust. Factor	0.9999311453		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DESHA-DREW COUNTY LINE, LOCATED IN TILLAR, GO SOUTH ON U.S. HIGHWAY 65 FOR 5.13 KM (3.19 MI) TO THE STATION ON THE LEFT. THE STATION IS 20.00 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65, 1.00 METERS SOUTH OF THE SOUTH CORNER OF A PAVED PARKING LOT OF THE RESIDENT ENGINEERS OFFICE AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210006 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 601.955 METERS.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER OF A HEADWALL	180	19.50	64.0
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 AHTD MON 1</p> <p>Ref Mon # 2 210004</p> <p>Ref Mon # 3 090007</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210006A	Date Monumented 2/9/2000	Monumented By AHTD	County DESHA	Route 65	Job Number: 020238
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	512,488.0160	
Easting (M)	452,970.6290	
Elevation (M)*	44.016	
Northing (SFT)	1,681,387.7658	
Easting (SFT)	1,486,121.1386	
Elevation (SFT)*	144.409	

Convergence Angle	0	19	11.0485010
Scale Factor	0.999937535		
Elevation Adjust. Factor	0.9999930925		
Combined Adjust. Factor	0.9999306279		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>AHTD MON 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>210004</td> </tr> <tr> <td>Ref Mon # 3</td> <td>090007</td> </tr> </table>	Ref Mon # 1	AHTD MON 1	Ref Mon # 2	210004	Ref Mon # 3	090007	<table style="width: 100%;"> <tr> <td style="width: 30%;">AZ Mark Station</td> <td>210006</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>147 22 58.17722</td> </tr> <tr> <td>Grid Azimuth</td> <td>147 03 47.09619</td> </tr> </table>	AZ Mark Station	210006	Geodetic Azimuth	147 22 58.17722	Grid Azimuth	147 03 47.09619
Ref Mon # 1	AHTD MON 1												
Ref Mon # 2	210004												
Ref Mon # 3	090007												
AZ Mark Station	210006												
Geodetic Azimuth	147 22 58.17722												
Grid Azimuth	147 03 47.09619												

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210007	Date Monumented 2/9/2000	Monumented By AHTD	County DESHA	Route 65	Job Number: 020044,020238
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	508,103.6154	
Easting (M)	456,254.8226	
Elevation (M)*	42.396	
Northing (SFT)	1,667,003.2782	
Easting (SFT)	1,496,896.0305	
Elevation (SFT)*	139.093	

Convergence Angle	0	20	21.8478438
Scale Factor	0.999942036		
Elevation Adjust. Factor	0.9999933468		
Combined Adjust. Factor	0.9999353832		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF A HEADWALL	271	14.00	45.9
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD MON 1	ELEV BY 3 WIRE LOOP
Ref Mon # 2 210004	
Ref Mon # 3 090007	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 38 23.4217248
Longitude	91 23 36.9230388
Ellipsoid Height (M):	16.422
Geoid Height (M):	-26.116

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 65 AND THE DESHA-DREW COUNTY LINE, LOCATED IN TILLAR, GO SOUTH ON U.S. HIGHWAY 65 FOR 10.01 KM (6.22 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.60 METERS NORTHEAST OF THE CENTER OF THE NORTH BOUND LANE OF U.S. HIGHWAY 65 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210007 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 844.524 METERS.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210007A RESET	Date Monumented 1/23/2003	Monumented By AHTD	County DESHA	Route 65	Job Number: 020044
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 508,637.4231		Latitude 33 38 40.8474132
Easting (M) 455,736.6490		Longitude 91 23 56.9097132
Elevation (M)* 42.907		Ellipsoid Height (M): 16.793
Northing (SFT) 1,668,754.6123		Geoid Height (M): -26.108
Easting (SFT) 1,495,195.9893		
Elevation (SFT)* 140.770		

Convergence Angle	0	20	10.6614883
Scale Factor	0.999941462		
Elevation Adjust. Factor	0.9999932666		
Combined Adjust. Factor	0.9999347289		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks			
Description	Azimuth	Distance	
		Meters	Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 210009, 210007	ELEV BY 3 WIRE LOOP
Ref Mon # 2 MEM2 CORS	
Ref Mon # 3 VIC1 CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210008	Date Monumented 7/24/2000	Monumented By AHTD	County DESHA	Route 1	Job Number: 020045
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	518,614.0958	
Easting (M)	465,781.9806	
Elevation (M)*		
Northing (SFT)	1,701,486.4126	
Easting (SFT)	1,528,153.0480	
Elevation (SFT)*		

Convergence Angle	0	23	50.3534380
Scale Factor	0.999932131		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF MAN HOLE COVER	232	13.65	44.8
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	LAKE
Ref Mon # 2	WINSTON
Ref Mon # 3	210004

Comments

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 33 44 2.5844460

Longitude 91 17 24.3858516

Ellipsoid Height (M): 14.723

Geoid Height (M): -26.254

Location Description

THE STATION IS LOCATED ABOUT 14.48 KM (9.00 MI) NORTHEAST OF MCGEEHEE AT THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 4. THE STATION IS 23.00 METERS NORTH OF THE CENTER OF STATE HIGHWAY 4, 12.85 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 1 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210008 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 565.759 METERS

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210008A	Date Monumented 7/24/2000	Monumented By AHTD	County DESHA	Route 4	Job Number: 020045
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	518,560.7847	
Easting (M)	466,345.1771	
Elevation (M)*		
Northing (SFT)	1,701,311.5078	
Easting (SFT)	1,530,000.8019	
Elevation (SFT)*		

Convergence Angle	0	24	2.5909920
Scale Factor	0.999932178		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LAKE	
Ref Mon # 2 WINSTON	
Ref Mon # 3 210004	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 44 0.7267668
Longitude	91 17 2.5209996
Ellipsoid Height (M):	15.672
Geoid Height (M):	-26.261

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 4, LOCATED ABOUT 14.48 KM (9.00 MI) NORTHEAST OF MCGEHEE, GO EAST ON STATE HIGHWAY 4 FOR 0.57 KM (0.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.52 METERS NORTH OF THE CENTER OF STATE HIGHWAY 4 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210008A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 565.759 METERS.</p>

AZ Mark Station	210008
Geodetic Azimuth	275 48 29.22047
Grid Azimuth	275 24 26.67711

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210009	Date Monumented 7/24/2000	Monumented By AHTD	County DESHA	Route 1	Job Number: 020044,020045
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	515,264.8200	
Easting (M)	462,916.4161	
Elevation (M)*		
Northing (SFT)	1,690,497.9970	
Easting (SFT)	1,518,751.6085	
Elevation (SFT)*		

Convergence Angle	0	22	47.5640648
Scale Factor	0.999934996		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 4, LOCATED ABOUT 14.48 KM (9.00 MI) NORTHEAST OF MCGEHEE, GO SOUTH WEST ON STATE HIGHWAY 1 FOR 4.35 KM (2.70 MI) TO THE JUNCTION OF CAMP NINE ROAD ON THE LEFT AND THE STATION ON THE RIGHT. THE STATION IS 19.90 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 1, 9.75 METERS NORTHEAST OF THE CENTER OF A GRAVEL ROAD, 6.98 METERS SOUTHEAST OF THE SOUTHEAST RAIL AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210009 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 653.572 METERS.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE				210009A	
MK # 2	NONE				137 36 11.77355	
MK # 3	NONE				137 13 24.16834	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LAKE	
Ref Mon # 2 WINSTON	
Ref Mon # 3 210004	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210009A	Date Monumented 7/24/2000	Monumented By AHTD	County DESHA	Route 1	Job Number: 020045
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	514,785.1263	
Easting (M)	463,360.2540	
Elevation (M)*		
Northing (SFT)	1,688,924.2019	
Easting (SFT)	1,520,207.7667	
Elevation (SFT)*		

Convergence Angle	0	22	57.1415153
Scale Factor	0.999935434		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 4, LOCATED 14.48 KM (9.00 MI) NORTHEAST OF MCGEHEE, GO SOUTHWEST ON STATE HIGHWAY 1 FOR 4.35 KM (2.70 MI) TO THE JUNCTION OF CAMP NINE ROAD ON THE RIGHT, GO RIGHT, SOUTHEAST ON CAMP NINE ROAD FOR 0.63 KM (0.39 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.25 METERS NORTHEAST OF THE CENTER OF CAMP NINE ROAD AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210009A 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 653.572 METERS.</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				AZ Mark Station	210009A
MK # 2	NONE				Geodetic Azimuth	317 36 21.26853
MK # 3	NONE				Grid Azimuth	317 13 24.16834

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LAKE	
Ref Mon # 2 WINSTON	
Ref Mon # 3 210004	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210009A RESET	Date Monumented 1/21/2003	Monumented By AHTD	County DESHA	Route N/A	Job Number: 020044
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	514,782.5281
Easting (M)	463,345.4400
Elevation (M)*	

Northing (SFT)	1,688,915.6776
Easting (SFT)	1,520,159.1644
Elevation (SFT)*	

Convergence Angle	0	22	56.8191657
Scale Factor	0.999935436		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 4, LOCATED 14.48 KM (9.00 MI) NORTHEAST OF MCGEHEE, GO SOUTHWEST ON STATE HIGHWAY 1 FOR 4.35 KM (2.70 MI) TO THE JUNCTION OF CAMP NINE ROAD ON THE LEFT, GO LEFT, SOUTHEAST ON CAMP NINE ROAD FOR 0.63 KM (0.39 MI) TO THE STATION ON THE RIGHT. THE STATION IS 7.30 METERS SOUTHWEST OF THE CENTER OF CAMP NINE ROAD AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "210009A RESET 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 210009, 210007</p> <p>Ref Mon # 2 MEM2 CORS</p> <p>Ref Mon # 3 VIC1 CORS</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210011	Date Monumented 5/1/2001	Monumented By ADS	County DESHA	Route 65	Job Number: 020044
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas South</td> <td>302</td> </tr> <tr> <td>Horizontal Datum</td> <td>NAD 83 (1997)</td> </tr> <tr> <td>Northing (M)</td> <td>508,820.6332</td> </tr> <tr> <td>Easting (M)</td> <td>457,320.1750</td> </tr> <tr> <td>Elevation (M)*</td> <td>43.117</td> </tr> <tr> <td>Northing (SFT)</td> <td>1,669,355.6941</td> </tr> <tr> <td>Easting (SFT)</td> <td>1,500,391.2741</td> </tr> <tr> <td>Elevation (SFT)*</td> <td>141.460</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Convergence Angle</td> <td style="width: 10%;">0</td> <td style="width: 10%;">20</td> <td style="width: 30%;">45.0806172</td> </tr> <tr> <td>Scale Factor</td> <td colspan="3">0.999941277</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td colspan="3">0.9999932336</td> </tr> <tr> <td>Combined Adjust. Factor</td> <td colspan="3">0.9999345110</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;"> SUPERCEDED CONTROL </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas South	302	Horizontal Datum	NAD 83 (1997)	Northing (M)	508,820.6332	Easting (M)	457,320.1750	Elevation (M)*	43.117	Northing (SFT)	1,669,355.6941	Easting (SFT)	1,500,391.2741	Elevation (SFT)*	141.460	Convergence Angle	0	20	45.0806172	Scale Factor	0.999941277			Elevation Adjust. Factor	0.9999932336			Combined Adjust. Factor	0.9999345110			Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Vertical Determined By:</td> <td style="width: 50%;">LEVEL (ADS)</td> </tr> <tr> <td>Elevation Datum:</td> <td>NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td>33 38 46.4881308</td> </tr> <tr> <td>Longitude</td> <td>91 22 55.4130156</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>0.000</td> </tr> <tr> <td>Geoid Height (M):</td> <td>0.000</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center;">Location Description</p> <p>3" ALUM CAP SET IN CONCRETE STAMPED 210011 SET ON THE EAST SIDE OF HWY. 1 AND NE OF HWY 65 (165) OVERPASS APPROX 0.8 MILE</p> </div>	Vertical Determined By:	LEVEL (ADS)	Elevation Datum:	NAVD 88	Geoid Datum:		Latitude	33 38 46.4881308	Longitude	91 22 55.4130156	Ellipsoid Height (M):	0.000	Geoid Height (M):	0.000
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Ellipsoid Height (M):	0.000																																																												
Geoid Height (M):	0.000																																																												

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	BRIDGE MAY ICE SIGN	45	0.00	0.0	
MK # 2	SW GATE POST	290	0.00	0.0	
MK # 3	NE GATE POST	325	0.00	0.0	

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 WINN RM A</p> <p>Ref Mon # 2 BENOIT & E 360</p> <p>Ref Mon # 3 HEEHAW</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Comments</p> <p>ELEVATION RUN BY ADS. NO LEVEL FILES PROVIDED.ELEV BY 3 WR LOOP</p> </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210011A	Date Monumented 5/1/2001	Monumented By ADS	County DESHA	Route 65	Job Number: 020044
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	509,344.3101	
Easting (M)	457,690.3050	
Elevation (M)*	42.874	
Northing (SFT)	1,671,073.7907	
Easting (SFT)	1,501,605.6090	
Elevation (SFT)*	140.664	

Convergence Angle	0	20	53.1893102
Scale Factor	0.999940729		
Elevation Adjust. Factor	0.9999932717		
Combined Adjust. Factor	0.9999340011		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	60D IN NORTH FACE OF POLE	215	0.00	0.0
MK # 2	R/R CROSSING SIGN	250	0.00	0.0
MK # 3	CENTERLINE OF ROAD	330	0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 WINN RM A	ELEVATION RUN BY ADS. NO LEVEL FILES PROVIDED.ELEV BY 3 WR LOOP
Ref Mon # 2 BENOIT & E 360	
Ref Mon # 3 HEEHAW	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210040	Date Monumented 1/21/2003	Monumented By AHTD	County DESHA	Route 1	Job Number: 020044
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	511,521.3012	
Easting (M)	459,811.1070	
Elevation (M)*	42.479	
Northing (SFT)	1,678,216.1357	
Easting (SFT)	1,508,563.6069	
Elevation (SFT)*	139.366	

Convergence Angle	0	21	39.5556077
Scale Factor	0.999938523		
Elevation Adjust. Factor	0.9999933337		
Combined Adjust. Factor	0.9999318571		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	223	24.05	78.9
MK # 2	CORRIGATED METAL PIPE	235	21.10	69.2
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 210009, 210007 Ref Mon # 2 MEM2 CORS Ref Mon # 3 VIC1 CORS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV BY 3 WR LOOP</td> </tr> </table>	Comments	ELEV BY 3 WR LOOP
Comments			
ELEV BY 3 WR LOOP			

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 40 13.6483896

Longitude 91 21 18.0824868

Ellipsoid Height (M): 16.334

Geoid Height (M): -26.180

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 1 ON THE NORTH SIDE OF McGEHEE, GO NORTHEAST ON STATE HIGHWAY 1 FOR 3.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS 22.90 METERS EAST OF THE CENTER OF STATE HIGHWAY 1 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "210010 2003 SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	210040A
Geodetic Azimuth	39 21 14
Grid Azimuth	38 59 35

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210040A	Date Monumented 1/21/2003	Monumented By AHTD	County DESHA	Route 1	Job Number: 020044
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	511,988.7882	
Easting (M)	460,189.5760	
Elevation (M)*	42.126	
Northing (SFT)	1,679,749.8826	
Easting (SFT)	1,509,805.3006	
Elevation (SFT)*	138.208	

Convergence Angle	0	21	47.8430373
Scale Factor	0.999938064		
Elevation Adjust. Factor	0.9999933891		
Combined Adjust. Factor	0.9999314535		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF CONCRETE HEAD WALL	236	7.65	25.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 210009, 210007	ELEV BY 3 WR LOOP
Ref Mon # 2 MEM2 CORS	
Ref Mon # 3 VIC1 CORS	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 40 28.7445360
Longitude	91 21 3.2753268
Ellipsoid Height (M):	15.953
Geoid Height (M):	-26.186

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 1 ON THE NORTH SIDE OF McGEHEE, GO NORTHEAST ON STATE HIGHWAY 1 FOR 3.62 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.60 METERS EAST OF THE CENTER OF STATE HIGHWAY 1 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "210010A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	210040
Geodetic Azimuth	219 21 23
Grid Azimuth	218 59 35

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210041	Date Monumented 5/31/2005	Monumented By AHTD	County DESHA	Route 65	Job Number: R20092,020451
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	538,079.3431	
Easting (M)	446,238.9090	
Elevation (M)*	48.784	
Northing (SFT)	1,765,348.6448	
Easting (SFT)	1,464,035.4873	
Elevation (SFT)*	160.052	

Convergence Angle	0	16	47.4873321
Scale Factor	0.999920793		
Elevation Adjust. Factor	0.9999923443		
Combined Adjust. Factor	0.9999131379		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH LIGHT	147	10.45	34.3
MK # 2	SOUTHEAST END OF CULVERT	356	5.60	18.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CSAL, G 292	3-Wire Levels were ran by S5108 in Jan 2006 in Job R20092 from NGS BM K292
Ref Mon # 2 ZME1	
Ref Mon # 3 K 124	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210041A	Date Monumented 5/31/2005	Monumented By AHTD	County DESHA	Route 65	Job Number: R20092,020451
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	537,635.2951	
Easting (M)	446,607.9220	
Elevation (M)*	49.211	
Northing (SFT)	1,763,891.7973	
Easting (SFT)	1,465,246.1574	
Elevation (SFT)*	161.453	

Convergence Angle	0	16	55.4798971
Scale Factor	0.999920946		
Elevation Adjust. Factor	0.9999922772		
Combined Adjust. Factor	0.9999132239		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST END OF CULVERT	272	3.30	10.8
MK # 2				
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>CSAL, G 292</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ZME1</td> </tr> <tr> <td>Ref Mon # 3</td> <td>K 124</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	CSAL, G 292	Ref Mon # 2	ZME1	Ref Mon # 3	K 124	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels were ran by S5108 in Jan 2006 in Job R20092 from NGS BM K292</td> </tr> </table>	Comments	3-Wire Levels were ran by S5108 in Jan 2006 in Job R20092 from NGS BM K292
Area Reference Monuments (used for Processing)											
Ref Mon # 1	CSAL, G 292										
Ref Mon # 2	ZME1										
Ref Mon # 3	K 124										
Comments											
3-Wire Levels were ran by S5108 in Jan 2006 in Job R20092 from NGS BM K292											

Vertical Determined By: 3rd Order - 3 Wire Level	
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 54 23.6630592
Longitude	91 29 45.6408888
Ellipsoid Height (M):	23.341
Geoid Height (M):	-25.950

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 54-165 AND U.S. 65 IN THE CENTER OF DUMAS GO NORTH ON HWY-65 FOR 2.90 KM. (1.80 MI.) TO THE STATION ON THE RIGHT. 19.4 METERS NORTHEAST OF THE CENTER OF HWY-65, 24.7 METERS NORTHWEST OF THE CENTER OF AN ASPH DRIVE AND 7.5 METERS SOUTHEAST OF A AN ASPH TURN IN TO A FIELD AND SOUTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210041A 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210042-1	Date Monumented 2/15/2007	Monumented By AHTD	County DESHA	Route 138	Job Number: 020465
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	542,856.1931	
Easting (M)	442,882.2820	
Elevation (M)*		
Northing (SFT)	1,781,020.6935	
Easting (SFT)	1,453,022.9535	
Elevation (SFT)*		

Convergence Angle	0	15	34.8234274
Scale Factor	0.999919454		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE AHTD RIGHT WAY OF MARKER	272	1.52	5.0
MK # 2	40 INCH PINE	248	24.63	80.8
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MSCL</td> </tr> <tr> <td>Ref Mon # 3</td> <td>82 V 10 W</td> </tr> </table>	Ref Mon # 1	ARCM	Ref Mon # 2	MSCL	Ref Mon # 3	82 V 10 W	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARCM							
Ref Mon # 2	MSCL							
Ref Mon # 3	82 V 10 W							
Comments								

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 33 57 13.6932300

Longitude 91 32 9.7498968

Ellipsoid Height (M): 23.197

Geoid Height (M): -25.931

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165, 65, AND 138, SOUTH OF DUMAS. GO EAST ON HIGHWAY 138 FOR 2.2 MILES TO THE STATION MARK ON THE RIGHT, EAST 43.6 FEET OF THE CENTERLINE OF NEWTON CHAPEL ROAD (GRAVEL), EAST 9.0 FEET OF A HISTORICAL MARKER, AT THE NORTHWEST CORNER OF JEFFERSON CEMETERY, SOUTH 39.5 FEET OF THE CENTERLINE OF HIGHWAY 138 AND NORTH 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "210042 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210042A	Date Monumented 2/15/2007	Monumented By AHTD	County DESHA	Route 138	Job Number: 020465
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	524,033.5331	
Easting (M)	452,102.6290	
Elevation (M)*		
Northing (SFT)	1,719,266.6832	
Easting (SFT)	1,483,273.3753	
Elevation (SFT)*		

Convergence Angle	0	18	53.5660585
Scale Factor	0.999927991		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	30	6.92	22.7
MK # 2	SOUTHWEST END 18" PLASTIC CULVERT	278	7.38	24.2
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	
Ref Mon # 2 MSCL	
Ref Mon # 3 82 V 10 W	

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 33 47 1.2484032

Longitude 91 26 14.6562072

Ellipsoid Height (M): 19.768

Geoid Height (M): -26.023

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165, 65, AND 138, SOUTH OF DUMAS. GO EAST ON HIGHWAY 138 FOR 1.7 MILES TO THE STATION MARK ON THE RIGHT, SOUTHWEST 5.50 FEET OF THE CENTERLINE OF SCOTT CEMETERY ROAD (GRAVEL), SOUTHEAST 50.0 FEET OF THE CENTERLINE OF HIGHWAY 138 AND SOUTHWEST 19.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "210042A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE ROAD.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210043	Date Monumented 	Monumented By AHTD	County DESHA	Route N/A	Job Number: 020542
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	546,587.5874	
Easting (M)	453,167.8602	
Elevation (M)*	50.634	0.0022
Northing (SFT)	1,793,262.7763	
Easting (SFT)	1,486,768.2213	
Elevation (SFT)*	166.122	

Convergence Angle	0	19	19.4995514
Scale Factor	0.999918811		
Elevation Adjust. Factor	0.9999920539		
Combined Adjust. Factor	0.9999108656		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WEST OF CL 212	105	12.20	40.0	210043A
MK # 2	S.W. OF DBL 36" CMP	50	15.50	50.9	
MK # 3	N.W. OF 24" CPP	135	3.00	9.8	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description

Go 1.6 miles on highway 1 (from the county line). Turn right on south curve road for 0.9 miles. Turn right on to Clint Warner road. go right for 0.6 miles to the station on the left. The station is a standard alum. Cap set on a 4 foot rebar and stamped 210043, 2012 Lat. 33.59.13 Lon. 91.25.28

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210043A	Date Monumented 	Monumented By AHTD	County DESHA	Route N/A	Job Number: 020542
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	545,945.9620	
Easting (M)	452,459.7128	
Elevation (M)*	50.864	0.0021
Northing (SFT)	1,791,157.7103	
Easting (SFT)	1,484,444.9077	
Elevation (SFT)*	166.876	

Convergence Angle	0	19	3.9787882
Scale Factor	0.999918898		
Elevation Adjust. Factor	0.9999920179		
Combined Adjust. Factor	0.9999109165		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	S.S.W. of cl 212	205	8.84	29.0
MK # 2	S.W. of well head	58	10.00	32.8
MK # 3	E. of guy pole with dbl wires	307	2.13	7.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px; vertical-align: top;"> BASED ON NGS POINT :12 AR </td> </tr> </table>	Comments	BASED ON NGS POINT :12 AR
Comments			
BASED ON NGS POINT :12 AR			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210044	Date Monumented 4/12/2012	Monumented By AHTD	County Desha	Route N/A	Job Number: 020316
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas South</td> <td></td> </tr> <tr> <td colspan="2">Horizontal Datum</td> </tr> <tr> <td>Northing (M)</td> <td>#Error</td> </tr> <tr> <td>Easting (M)</td> <td>#Error</td> </tr> <tr> <td>Elevation (M)*</td> <td></td> </tr> <tr> <td>Northing (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Easting (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Elevation (SFT)*</td> <td></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Convergence Angle</td> <td>###/###</td> <td>#Error</td> </tr> <tr> <td>Scale Factor</td> <td></td> <td>#Error</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td></td> <td></td> </tr> <tr> <td>Combined Adjust. Factor</td> <td></td> <td>#Type!</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;"> SUPERCEDED CONTROL </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas South		Horizontal Datum		Northing (M)	#Error	Easting (M)	#Error	Elevation (M)*		Northing (SFT)	#Type!	Easting (SFT)	#Type!	Elevation (SFT)*		Convergence Angle	###/###	#Error	Scale Factor		#Error	Elevation Adjust. Factor			Combined Adjust. Factor		#Type!	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Vertical Determined By:</td> <td></td> </tr> <tr> <td>Elevation Datum:</td> <td></td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center;">Location Description</p> <p>To reach the station from the intersections of highways 65 and 1 in McGehee go north on hwy-1 for 1.5 miles to "South curve road" on the right, turn right and go east on South curve road for 0.90 miles to a gravel road to the right, turn right and go 0.50 miles to the station on the left 24 feet east of the center of the gravel road and 14 feet southeast of a witness post. The station mark is a 2 1/2in. cap stamped "210044 2012 set on top of a 5/8 inch by 4 foot long rebar and is 0.10 feet below the surface</p> </div>	Vertical Determined By:		Elevation Datum:		Geoid Datum:		Latitude		Longitude		Ellipsoid Height (M):		Geoid Height (M):	
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Geoid Height (M):																																																									

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power service pole	340	4.20	13.8
MK # 2				
MK # 3				

AZ Mark Station	210044A
Geodetic Azimuth	
Grid Azimuth	

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Comments</p> <p>33-38-22 091-21-39</p> </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210044A	Date Monumented 4/12/2012	Monumented By AHTD	County Desha	Route N/A	Job Number: 020316
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Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	300	14.30	46.9
MK # 2				
MK # 3				

AZ Mark Station	210044
Geodetic Azimuth	
Grid Azimuth	

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1</p> <p>Ref Mon # 2</p> <p>Ref Mon # 3</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Comments</p> <p>33-38-33 091-21-39</p> </div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210045	Date Monumented 2/11/2015	Monumented By AHTD	County DESHA	Route 65	Job Number: 020572,020590
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	505,687.4318	
Easting (M)	457,335.7266	
Elevation (M)*	43.411	
Northing (SFT)	1,659,076.1825	
Easting (SFT)	1,500,442.2964	
Elevation (SFT)*	142.423	

Convergence Angle	0	20	45.0076219
Scale Factor	0.999944715		
Elevation Adjust. Factor	0.9999931875		
Combined Adjust. Factor	0.9999379029		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE TWO TRANSFORMER	72	36.40	119.4
MK # 2	COMBINATION POLE WITH LIGHT	196	17.20	56.4
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 MSB6 Ref Mon # 2 MSGN Ref Mon # 3 RACM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevations based on static GPS observations from NGS BM 118 42 during job 020572 by crew s5102 in January 2015.</td> </tr> </table>	Comments	Elevations based on static GPS observations from NGS BM 118 42 during job 020572 by crew s5102 in January 2015.
Comments			
Elevations based on static GPS observations from NGS BM 118 42 during job 020572 by crew s5102 in January 2015.			

Location Description			
TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEEHEE. GO NORTH ON HWY. 65 FOR 0.5 MILES TO THE STATION ON THE RIGHT. THE STATION IS 1 FT. WEST OF A WITNESS POST, 113 FT. NORTH OF THE CENTERLINE OF HWY. 169, AND 64 FT. EAST OF THE CENTERLINE OF HWY. 65. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210045 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.			

AZ Mark Station	210045A
Geodetic Azimuth	
Grid Azimuth	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 210045A	Date Monumented 2/11/2015	Monumented By AHTD	County DESHA	Route 65	Job Number: 020572,020590
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	505,081.2947	
Easting (M)	457,232.7602	
Elevation (M)*	43.582	
Northing (SFT)	1,657,087.5477	
Easting (SFT)	1,500,104.4808	
Elevation (SFT)*	142.986	

Convergence Angle	0	20	42.6925335
Scale Factor	0.999945407		
Elevation Adjust. Factor	0.9999931606		
Combined Adjust. Factor	0.9999385680		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF MANHOLE	120	3.90	12.8
MK # 2	TELEPHONE BOX	278	27.00	88.6
MK # 3	O'REILLY AUTO PARTS SIGN	354	20.00	65.6

Area Reference Monuments (used for Processing) Ref Mon # 1 MSB6 Ref Mon # 2 MSGN Ref Mon # 3 RACM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevations based on static GPS observations from NGS BM 118 42 during job 020572 by crew s5102 in January 2015.</td> </tr> </table>	Comments	Elevations based on static GPS observations from NGS BM 118 42 during job 020572 by crew s5102 in January 2015.
Comments			
Elevations based on static GPS observations from NGS BM 118 42 during job 020572 by crew s5102 in January 2015.			

Location Description			
TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEHEE. GO NORTH ON HWY. 65 FOR 0.1 MILES TO THE STATION ON THE LEFT. THE STATION IS 1 FT. EAST OF A WINESS POST, 22 FT. SOUTH OF THE CENTERLINE OF SHERMAN ST., AND 43 FT. WEST OF THE CENTERLINE OF HWY. 65. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210045A 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	33	36	45.1325628
Longitude	91	22	59.6798076
Ellipsoid Height (M):	17.358		
Geoid Height (M):	-26.234		

AZ Mark Station	210045
Geodetic Azimuth	
Grid Azimuth	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 210046	Date Monumented 2/11/2015	Monumented By AHTD	County DESHA	Route 4	Job Number: 020572
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	504,022.3132	
Easting (M)	460,728.8786	
Elevation (M)*	43.789	
Northing (SFT)	1,653,613.2059	
Easting (SFT)	1,511,574.6625	
Elevation (SFT)*	143.663	

Convergence Angle	0	21	58.4546223
Scale Factor	0.999946665		
Elevation Adjust. Factor	0.9999931282		
Combined Adjust. Factor	0.9999397936		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF 6 FT. CHAINLINK FENCE	355	1.20	3.9
MK # 2	15 IN. STEEL PIPE UNDER GRAVEL DRIVEWAY	109	19.70	64.6
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 MSB6 Ref Mon # 2 MSGN Ref Mon # 3 RACM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevations based on static GPS observations from NGS BM 118 42 during job 020572 by crew s5102 in January 2015.</td> </tr> </table>	Comments	Elevations based on static GPS observations from NGS BM 118 42 during job 020572 by crew s5102 in January 2015.
Comments			
Elevations based on static GPS observations from NGS BM 118 42 during job 020572 by crew s5102 in January 2015.			

Location Description			
TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEEHEE. GO EAST ON HWY. 4 FOR 2.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 4 FT. SOUTH OF A WITNESS POST, 77 FT. WEST OF A GRAVEL DRIVEWAY, AND 62 FT. NORTH OF THE CENTERLINE OF HWY. 4. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210046 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.			

AZ Mark Station	210046A
Geodetic Azimuth	
Grid Azimuth	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210046A	Date Monumented 2/11/2015	Monumented By AHTD	County DESHA	Route 4	Job Number: 020572
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	504,026.5947	
Easting (M)	460,192.2213	
Elevation (M)*		
Northing (SFT)	1,653,627.2528	
Easting (SFT)	1,509,813.9794	
Elevation (SFT)*		

Convergence Angle	0	21	46.8044238
Scale Factor	0.999946656		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEHEE. GO EAST ON HWY. 4 FOR 2.0 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12 FT. NORTH OF A WITNESS POST, 31 FT. WEST OF THE CENTER OF DELTA COUNTRY CLUB'S PAVED DRIVEWAY, AND 30 FT. SOUTH OF THE CENTERLINE OF HWY. 4. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210046A 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TELEPHONE BOX	196	4.80	15.7	210046
MK # 2	CENTER OF CONCRETE HEADWALL	108	30.30	99.4	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MSB6 Ref Mon # 2 MSGN Ref Mon # 3 RACM	GPS elevation only

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210047	Date Monumented 2/11/2015	Monumented By AHTD	County DESHA	Route 4	Job Number: 020572
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	504,428.9116
Easting (M)	465,086.7608
Elevation (M)*	42.934
Northing (SFT)	1,654,947.1875
Easting (SFT)	1,525,872.1477
Elevation (SFT)*	140.859

Convergence Angle	0	23	33.1240612
Scale Factor	0.999946222		
Elevation Adjust. Factor	0.9999932623		
Combined Adjust. Factor	0.9999394847		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEEHEE. GO EAST ON HWY. 4 FRO 5.2 MILES TO THE STATION ON THE LEFT. THE STATION IS 1 FT. NORTH OF A WITNESS POST, 46 FT. WEST OF A GRAVEL DRIVEWAY, AND 35 FT. NORTH OF THE CENTERLINE OF HWY. 4. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210047 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WELL HEAD	300	28.90	94.8
MK # 2	POWER POLE WITH TWO TRANSFORMERS	276	27.30	89.6
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 MSB6 Ref Mon # 2 MSGN Ref Mon # 3 RACM	Comments Elevation based on levels from AHTD GPS Mon 210046, which was based on static GPS observations from NGS BM L 18 42 During job 020572 by crew s5102 in January 2015.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210047A	Date Monumented 2/11/2015	Monumented By AHTD	County DESHA	Route 4	Job Number: 020572
---------------------------	-------------------------------------	------------------------------	------------------------	-------------------	------------------------------

Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	504,399.5405	
Easting (M)	465,715.7894	
Elevation (M)*	41.101	
Northing (SFT)	1,654,850.8258	
Easting (SFT)	1,527,935.8857	
Elevation (SFT)*	134.847	

Convergence Angle	0	23	46.7763012
Scale Factor	0.999946261		
Elevation Adjust. Factor	0.9999935499		
Combined Adjust. Factor	0.9999398113		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	METAL GATE POST	128	2.30	7.5	210047
MK # 2	WOODEN SIGN (PPF INC.)	261	3.10	10.2	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MSB6 Ref Mon # 2 MSGN Ref Mon # 3 RACM	Elevation based on levels from AHTD GPS Mon 210046, which was based on static GPS observations from NGS BM L 18 42 During job 020572 by crew s5102 in January 2015.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210048	Date Monumented 2/11/2015	Monumented By AHTD	County DESHA	Route 4	Job Number: 020572
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	503,747.5383	
Easting (M)	470,223.7279	
Elevation (M)*		
Northing (SFT)	1,652,711.7152	
Easting (SFT)	1,542,725.6806	
Elevation (SFT)*		

Convergence Angle	0	25	24.5415044
Scale Factor	0.999947067		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL GATE POST	275	1.50	4.9
MK # 2	METAL GATE POST	195	10.70	35.1
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 MSB6 Ref Mon # 2 MSGN Ref Mon # 3 RACM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>GPS elevation only</td> </tr> </table>	Comments	GPS elevation only
Comments			
GPS elevation only			

Location Description			
TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEHEE. GO EAST ON HWY. 4 FOR 8.4 MILES TO TEXAS EASTERN RD. GO SOUTH (RIGHT) ON TEXAS EASTERN RD. FOR 0.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS 4 FT. EAST OF A WITNESS POST, AND 26 FT. WEST OF THE CENTER OF TEXAS EASTERN RD. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210048 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.			

AZ Mark Station	210048A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210048A	Date Monumented 2/11/2015	Monumented By AHTD	County DESHA	Route 4	Job Number: 020572
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	504,347.2384	
Easting (M)	470,237.1731	
Elevation (M)*	41.066	
Northing (SFT)	1,654,679.2313	
Easting (SFT)	1,542,769.7921	
Elevation (SFT)*	134.730	

Convergence Angle	0	25	24.9296380
Scale Factor	0.999946360		
Elevation Adjust. Factor	0.9999935555		
Combined Adjust. Factor	0.9999399158		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST BRIDGE CORNER	155	5.50	18.0
MK # 2	ELECTRIC METER	88	13.60	44.6
MK # 3	TELEPHONE BOX	329	4.30	14.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MSB6 Ref Mon # 2 MSGN Ref Mon # 3 RACM	33.3622 91.1755 Elevation based on levels from AHTD GPS Mon 210046, which was based on static GPS observations from NGS BM L 18 42 During job 020572 by crew s5102 in January 2015.

Vertical Determined By: None

Elevation Datum:

Geoid Datum: GEOID12A

Latitude 33 36 18.4745268

Longitude 91 14 35.4064452

Ellipsoid Height (M): 14.624

Geoid Height (M): -26.455

Location Description

TO REACH FROM THE JCT. OF HWY 65 AND HWY. 4 IN MCGEEHEE. GO EAST ON HWY. 4 FOR 8.4 MILES TO THE STATION ON THE RIGHT. THE STATION IS 15 FT. NORTH OF A WITNESS POST, 18 FT. WEST OF THE CENTER OF TEXAS EASTERN RD., AND 55 FT. SOUTH OF THE CENTERLINE OF HWY. 4. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210048A 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210049	Date Monumented 2/11/2015	Monumented By AHTD	County DESHA	Route 4	Job Number: 020572
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	504,352.7827	
Easting (M)	473,911.2594	
Elevation (M)*		
Northing (SFT)	1,654,697.4212	
Easting (SFT)	1,554,823.8569	
Elevation (SFT)*		

Convergence Angle	0	26	44.6960658
Scale Factor	0.999946387		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL POST MARKED 800	84	1.40	4.6
MK # 2	HISTORICAL MARKER	265	28.70	94.2
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MSB6	GPS elevation only
Ref Mon # 2 MSGN	
Ref Mon # 3 RACM	

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	GEOID12A
Latitude	33 36 17.7497604
Longitude	91 12 12.8876760
Ellipsoid Height (M):	22.575
Geoid Height (M):	-26.501

Location Description
<p>TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEHEE. GO EAST ON HWY. 4 FOR 10.5 MILES TO SPRAGUE ST. GO SOUTH (RIGHT) ON SPRAGUE ST. FOR 0.3 MILES TO THE TOP OF THE LEVEE TO THE STATION ON THE RIGHT. THE STATION IS 6 FT. NORTH OF A WITNESS POST, AND 21 FT. NORTH OF THE CENTER OF THE BIKE ROUTE ON TOP OF THE LEVEE. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210049 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210049A	Date Monumented 2/11/2015	Monumented By AHTD	County DESHA	Route 4	Job Number: 020572
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	504,814.5094
Easting (M)	473,569.1341
Elevation (M)*	
Northing (SFT)	1,656,212.2696
Easting (SFT)	1,553,701.4008
Elevation (SFT)*	

Convergence Angle	0	26	37.3460703
Scale Factor	0.999945845		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	155	6.80	22.3
MK # 2	POWER POLE	324	12.10	39.7
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MSB6	GPS elevation only
Ref Mon # 2 MSGN	
Ref Mon # 3 RACM	

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	GEOID12A
Latitude	33 36 32.8226652
Longitude	91 12 26.0199216
Ellipsoid Height (M):	14.924
Geoid Height (M):	-26.498

Location Description
<p>TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEHEE. GO EAST ON HWY. 4 FOR 10.5 MILES TO THE STATION ON THE LEFT. THE STATION IS 4 FT. WEST OF A WITNESS POST, 39 FT. WEST OF THE CENTERLINE OF HWY. 4 EAST, AND 62 FT. NORTH OF THE CENTERLINE OF HWY. 4. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210049A 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210050	Date Monumented 12/12/2017	Monumented By ARDOT	County DESHA	Route 65	Job Number: 020678,020715
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	511,785.4572 0.0010
Easting (M)	453,411.8640 0.0010
Elevation (M)*	44.403

Northing (SFT)	1,679,082.7875	
Easting (SFT)	1,487,568.7571	
Elevation (SFT)*	145.679	

Convergence Angle	0	19	20.5504114
Scale Factor	0.999938224		
Elevation Adjust. Factor	0.9999930318		
Combined Adjust. Factor	0.9999312562		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 65 AND STATE HIGHWAY 1, IN McGEHEE. TRAVEL NORTH ALONG US HIGHWAY 65, 3.0 MILES TO THE STATION ON THE LEFT. THE STATION IS SET IN THE MEDIAN, 48 FEET WEST OF THE CENTERLINE OF US HIGHWAY 65 NORTH, 35 FEET EAST OF US HIGHWAY 65 SOUTH AND 3 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "210050 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE PEDESTAL	16	41.45	136.0	AZ Mark Station 210050A
MK # 2	TELEPHONE PEDESTAL	282	44.50	146.0	Geodetic Azimuth
MK # 3					Grid Azimuth

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM</p> <p>Ref Mon # 2 ARMO</p> <p>Ref Mon # 3 IULM,ARPB,MSGN</p>	<p style="text-align: center;">Comments</p> <p>ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS MILHOLEN.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210050A	Date Monumented 12/12/2017	Monumented By ARDOT	County DESHA	Route 65	Job Number: 020678,020715
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	512,061.4489	0.0010	
Easting (M)	453,236.0742	0.0010	
Elevation (M)*	44.121		
Northing (SFT)	1,679,988.2703		
Easting (SFT)	1,486,992.0201		
Elevation (SFT)*	144.753		

Convergence Angle	0	19	16.7645042
Scale Factor	0.999937952		
Elevation Adjust. Factor	0.9999930761		
Combined Adjust. Factor	0.9999310285		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	15	45.11	148.0
MK # 2	TELEPHONE PEDESTAL	48	34.44	113.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS MILHOLEN.
Ref Mon # 2 ARMO	
Ref Mon # 3 IULM,ARPB,MSGN	

Location Description	
<p>TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 65 AND STATE HIGHWAY 1, IN McGEHEE. TRAVEL NORTH ALONG US HIGHWAY 65, 3.2 MILES TO THE STATION ON THE LEFT. THE STATION IS SET IN THE MEDIAN, 52 FEET WEST OF THE CENTERLINE OF US HIGHWAY 65 NORTH, 32 FEET EAST OF US HIGHWAY 65 SOUTH AND 3 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "21005A 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.</p>	

AZ Mark Station	210050
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210051	Date Monumented 10/9/2018	Monumented By ARDOT	County DESHA	Route 35	Job Number: 020629
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	496,386.0410 0.0020
Easting (M)	460,376.9962 0.0020
Elevation (M)*	

Northing (SFT)	1,628,559.8695	
Easting (SFT)	1,510,420.1950	
Elevation (SFT)*		

Convergence Angle	0	21	49.7625652
Scale Factor	0.999956364		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65/278 AND 35, SOUTH OF McGHEE, GO SOUTH ON HIGHWAY 35 FOR 1.45 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 40.4' OF THE C/L OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2" CAP STAMPED "210051 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	273	17.68	58.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPB Ref Mon # 2 ARMO Ref Mon # 3 MSGN	Comments Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210051A	Date Monumented 10/9/2018	Monumented By ARDOT	County DESHA	Route 35	Job Number: 020629
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	496,415.0431 0.0020
Easting (M)	460,725.6465 0.0020
Elevation (M)*	

Northing (SFT)	1,628,655.0206	
Easting (SFT)	1,511,564.0586	
Elevation (SFT)*		

Convergence Angle	0	21	57.3296729
Scale Factor	0.999956328		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65/278 AND 35, SOUTH OF McGHEE, GO SOUTH ON HIGHWAY 35 FOR 1.7 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 47' OF THE C/L OF THE HIGHWAY AND 11' WEST OF A FIELD ROAD . THE STATION MARK IS A STANDARD 2" CAP STAMPED "210051A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/TRANSFORMER	313	8.53	28.0
MK # 2	METER POLE	288	7.32	24.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPB Ref Mon # 2 ARMO Ref Mon # 3 MSGN	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 10px;"> Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing. </td> </tr> </table>	Comments	Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.
Comments			
Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210052	Date Monumented 10/9/2018	Monumented By ARDOT	County DESHA	Route 35	Job Number: 020629
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	496,789.2347	0.0020			
Easting (M)	464,753.6399	0.0020			
Elevation (M)*					
Northing (SFT)	1,629,882.6808				
Easting (SFT)	1,524,779.2336				
Elevation (SFT)*					

Convergence Angle	0	23	24.7621453
Scale Factor	0.999955855		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF A CMP	264	7.01	23.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPB Ref Mon # 2 ARMO Ref Mon # 3 MSGN	Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12B
Latitude	33 32 14.4196800
Longitude	91 18 10.1098440
Ellipsoid Height (M):	14.437 0.0060
Geoid Height (M):	-26.350

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 159N, 208S AND 35E, IN HALLEY, GO EAST ON HIGHWAY 35 FOR 1.3 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 31' OF THE C/L OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2" CAP STAMPED "210052 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210052A	Date Monumented 10/9/2018	Monumented By ARDOT	County DESHA	Route 35	Job Number: 020629
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	496,792.2442	
Easting (M)	465,194.0169	
Elevation (M)*		
Northing (SFT)	1,629,892.5545	
Easting (SFT)	1,526,224.0371	
Elevation (SFT)*		

Convergence Angle	0	23	34.3158101
Scale Factor	0.999955855		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	278	8.53	28.0
MK # 2	WATER WELL	216	11.58	38.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPB Ref Mon # 2 ARMO Ref Mon # 3 MSGN	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.</td> </tr> </table>	Comments	Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.
Comments			
Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 159N, 208S AND 35E, IN HALLEY, GO EAST ON HIGHWAY 35 FOR 1.55 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 38' OF THE C/L OF THE HIGHWAY AND 9' EAST OF A FIELD ROAD. THE STATION MARK IS A STANDARD 2" CAP STAMPED "210052A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210053	Date Monumented 10/9/2018	Monumented By ARDOT	County DESHA	Route 35	Job Number: 020629
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	497,054.1349	
Easting (M)	468,983.0527	
Elevation (M)*		
Northing (SFT)	1,630,751.7743	
Easting (SFT)	1,538,655.2321	
Elevation (SFT)*		

Convergence Angle	0	24	56.5533813
Scale Factor	0.999955537		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 159N, 208S AND 35E, IN HALLEY, GO EAST ON HIGHWAY 35 FOR 3.95 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 45' OF THE C/L OF THE HIGHWAY AND 100' WEST OF A FIELD ROAD. THE STATION MARK IS A STANDARD 2" CAP STAMPED "210053 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WEST END OF CULVERT	90	25.30	83.0	AZ Mark Station 210053A
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPB Ref Mon # 2 ARMO Ref Mon # 3 MSGN	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Comments</td> </tr> <tr> <td> Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing. </td> </tr> </table>	Comments	Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.
Comments			
Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 210053A	Date Monumented 10/9/2018	Monumented By ARDOT	County DESHA	Route 35	Job Number: 020629
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	496,991.6281
Easting (M)	469,389.8281
Elevation (M)*	
Northing (SFT)	1,630,546.6999
Easting (SFT)	1,539,989.7944
Elevation (SFT)*	

Convergence Angle	0	25	5.3679656
Scale Factor	0.999955626		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SW END OF GUARD RAIL	84	11.58	38.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPB Ref Mon # 2 ARMO Ref Mon # 3 MSGN	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.</td> </tr> </table>	Comments	Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.
Comments			
Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during processing.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 159N, 208S AND 35E, IN HALLEY, GO EAST ON HIGHWAY 35 FOR 4.2 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 30' OF THE C/L OF THE HIGHWAY AND WEST OF A FIELD ROAD. THE STATION MARK IS A STANDARD 2" CAP STAMPED "210053A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12B
Latitude	33 32 19.9274280
Longitude	91 15 10.3573080
Ellipsoid Height (M):	14.397
Geoid Height (M):	-26.427

AZ Mark Station	210053A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220001A	Date Monumented 12/17/1992	Monumented By AHTD	County DREW	Route 425	Job Number: 11,R20108,020462,001873,02
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	502,056.2002	
Easting (M)	418,475.8326	
Elevation (M)*	81.690	
Northing (SFT)	1,647,162.7168	
Easting (SFT)	1,372,949.4608	
Elevation (SFT)*	268.013	

Convergence Angle	0	6	41.0416193
Scale Factor	0.999948811		
Elevation Adjust. Factor	0.9999871803		
Combined Adjust. Factor	0.9999359919		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN CROSS TIE POST	185	5.04	16.5		
MK # 2	NBC IN CROSS TIE POST	356	23.35	76.6		
MK # 3	CENTER OF TOP OF R/W MARKER	87	35.93	117.9		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 80%;" type="text" value="STELL"/> Ref Mon # 2 <input style="width: 80%;" type="text" value="S 197"/> Ref Mon # 3 <input style="width: 80%;" type="text" value="AHTD MON 1"/>	OLD PN = 92220001A. 3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220002	Date Monumented 12/17/1992	Monumented By AHTD	County DREW	Route 425	Job Number: R20108
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	509,971.2721	
Easting (M)	418,293.2810	
Elevation (M)*	87.514	
Northing (SFT)	1,673,130.7485	
Easting (SFT)	1,372,350.5394	
Elevation (SFT)*	287.119	

Convergence Angle	0	6	37.4101330
Scale Factor	0.999939916		
Elevation Adjust. Factor	0.9999862664		
Combined Adjust. Factor	0.9999261832		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	21	46.00	150.9
MK # 2	NBC IN LIGHT POLE	82	26.98	88.5
MK # 3	NBC IN POWER POLE	209	42.68	140.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="CELLPORT"/> Ref Mon # 2 <input type="text" value="DUMAS"/> Ref Mon # 3 <input type="text" value="TARRY"/>	<input type="text" value="OLD PN = 92220002"/>

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NGVD 29

Geoid Datum:

Latitude

Longitude

Ellipsoid Height (M):

Geoid Height (M):

Location Description

FROM THE JCT. OF HWY. 425 AND HWY. 4 IN MONTICELLO, GO NORTH ON HWY. 425 FOR 1.95 MILES TO THE STATION ON THE RIGHT. THE STATION IS 47.0 FEET EAST OF THE CENTERLINE OF HWY. 425, 27.0 FEET SOUTHEAST OF THE ENTRANCE TO THE AHTD AREA LOT AND 10 FEET EAST OF A WITNESS POST.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220002A	Date Monumented 12/17/1992	Monumented By AHTD	County DREW	Route 425	Job Number: R20108
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	510,198.0331				
Easting (M)	418,274.6640				
Elevation (M)*	88.489				
Northing (SFT)	1,673,874.7136				
Easting (SFT)	1,372,289.4601				
Elevation (SFT)*	290.318				

Convergence Angle	0	6	37.0151729
Scale Factor	0.999939683		
Elevation Adjust. Factor	0.9999861134		
Combined Adjust. Factor	0.9999257972		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 24" PINE TREE	167	40.15	131.7
MK # 2	NBC IN POWER POLE	288	30.12	98.8
MK # 3	NBC IN 5" PINE TREE	350	22.53	73.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CELLPORT	OLD PN = 92220002A
Ref Mon # 2 DUMAS	
Ref Mon # 3 TARRY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220003	Date Monumented 4/4/1993	Monumented By AHTD	County DREW	Route 425	Job Number: R20115,R20125
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	519,372.7851	
Easting (M)	416,486.6610	
Elevation (M)*	117.418	
Northing (SFT)	1,703,975.5458	
Easting (SFT)	1,366,423.3203	
Elevation (SFT)*	385.229	

Convergence Angle	0	5	58.5175229
Scale Factor	0.999931345		
Elevation Adjust. Factor	0.9999815736		
Combined Adjust. Factor	0.9999129199		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	202	46.57	152.8
MK # 2	USC&GS BENCH MARK W 77 1935	243	60.41	198.2
MK # 3	NBC IN 20" PINE TREE	315	64.71	212.3

Area Reference Monuments (used for Processing) Ref Mon # 1 CELLPORT Ref Mon # 2 DUMAS Ref Mon # 3 TARRY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	33 44 34.1488104
Longitude	91 49 19.4363256
Ellipsoid Height (M):	90.888
Geoid Height (M):	-26.530

Location Description
FROM THE JCT. OF HWY. 425 AND A PAVED COUNTY ROAD IN MONTONGO, GO SOUTH ON HWY. 425 FOR 0.24 MILES TO THE STATION ON THE RIGHT. THE STATION IS 176.0 FEET SOUTH OF A COUNTY ROAD, 37.54 FEET WEST OF THE CENTERLINE OF HWY. 425 AND 2.0 FEET EAST OF A WITNESS POST.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220003A	Date Monumented 5/5/1993	Monumented By AHTD	County DREW	Route 425	Job Number: R20115,R20125
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	518,836.8462	
Easting (M)	416,800.2440	
Elevation (M)*	103.132	
Northing (SFT)	1,702,217.2196	
Easting (SFT)	1,367,452.1339	
Elevation (SFT)*	338.359	

Convergence Angle	0	6	5.3160158
Scale Factor	0.999931776		
Elevation Adjust. Factor	0.9999838155		
Combined Adjust. Factor	0.9999155926		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN CROSS TIE POST	337	28.10	92.2
MK # 2	NBC IN 24" OAK TREE	0	26.26	86.2
MK # 3	NBC IN POWER POLE	25	7.53	24.7

Area Reference Monuments (used for Processing) Ref Mon # 1 CELLPORT Ref Mon # 2 DUMAS Ref Mon # 3 TARRY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Location Description	
FROM THE JCT. OF HWY. 425 AND A PAVED COUNTY ROAD IN MONTONGO, GO SOUTH ON HWY. 425 FOR 0.62 MILES TO THE STATION ON THE LEFT. THE STATION IS 37.0 FEET EAST OF THE CENTERLINE OF HWY. 425, 97 FEET NORTHWEST OF A MOBILE HOME AND 2.50 FEET WEST OF A WITNESS POST.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220004	Date Monumented 2/5/1998	Monumented By AHTD	County DREW	Route 4	Job Number: 001800
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	506,278.6952	
Easting (M)	405,368.3040	
Elevation (M)*	43.662	
Northing (SFT)	1,661,016.0192	
Easting (SFT)	1,329,945.8440	
Elevation (SFT)*	143.248	

Convergence Angle	0	1	56.5778536
Scale Factor	0.999943856		
Elevation Adjust. Factor	0.9999931481		
Combined Adjust. Factor	0.9999370044		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST END OF NORTHWEST HEADW	3	50.40	165.3
MK # 2	COMBINATION POLE	29	48.69	159.8
MK # 3	COMBINATION POLE	202	44.12	144.7

Area Reference Monuments (used for Processing) Ref Mon # 1 STELL Ref Mon # 2 K 124 Ref Mon # 3 S 197	Comments <div style="border: 1px solid black; height: 100px;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 37 29.5458060
Longitude	91 56 31.7102136
Ellipsoid Height (M):	17.971
Geoid Height (M):	-25.691

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 133, LOCATED IN WILMAR, GO WEST ON U.S. HIGHWAY 278 AND STATE HIGHWAY 4 FOR 1.37 KM (0.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.045 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 278 AND STATE HIGHWAY 4 AND 3.17 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220004 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	220004A
Geodetic Azimuth	210 13 33.40228
Grid Azimuth	210 11 36.85306

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220004A	Date Monumented 2/5/1998	Monumented By AHTD	County DREW	Route 4	Job Number: 001800
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	505,853.2612	
Easting (M)	405,120.7600	
Elevation (M)*	42.453	
Northing (SFT)	1,659,620.2411	
Easting (SFT)	1,329,133.6934	
Elevation (SFT)*	139.281	

Convergence Angle	0	1	51.1972182
Scale Factor	0.999944333		
Elevation Adjust. Factor	0.9999933378		
Combined Adjust. Factor	0.9999376712		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF A 0.45 METER CMP	83	18.51	60.7
MK # 2	TELEPHONE JUNCTION BOX	123	5.22	17.1
MK # 3	R/R TIE FENCE CORNER POST	209	48.15	158.0

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>STELL</td> </tr> <tr> <td>Ref Mon # 2</td> <td>K 124</td> </tr> <tr> <td>Ref Mon # 3</td> <td>S 197</td> </tr> </table>	Ref Mon # 1	STELL	Ref Mon # 2	K 124	Ref Mon # 3	S 197	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	STELL							
Ref Mon # 2	K 124							
Ref Mon # 3	S 197							
Comments								

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 37 15.7411128

Longitude 91 56 41.3238012

Ellipsoid Height (M): 16.760

Geoid Height (M): -25.693

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 133, LOCATED IN WILMAR, GO WEST ON U.S. HIGHWAY 278 AND STATE HIGHWAY 4 FOR 1.85 KM (1.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.295 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 278 AND STATE HIGHWAY 4, 13.260 METERS NORTH-NORTHWEST OF THE CENTER OF A GRAVEL ROAD AND 5.20 METERS NORTHWEST OF A POWER POLE AND WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220004A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	220004
Geodetic Azimuth	30 13 28.07899
Grid Azimuth	30 11 36.85306

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220005	Date Monumented 2/5/1998	Monumented By AHTD	County DREW	Route 4	Job Number: 020248,001800
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	507,243.7182	
Easting (M)	409,059.9020	
Elevation (M)*	67.534	
Northing (SFT)	1,664,182.0988	
Easting (SFT)	1,342,057.3618	
Elevation (SFT)*	221.568	

Convergence Angle	0	3	16.7643853
Scale Factor	0.999942793		
Elevation Adjust. Factor	0.9999894018		
Combined Adjust. Factor	0.9999321954		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	262	34.65	113.7
MK # 2	TELEPHONE JUNCTION BOX	310	45.73	150.0
MK # 3	WEST END OF A 0.45 METER CMP	61	55.20	181.1

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>STELL</td> </tr> <tr> <td>Ref Mon # 2</td> <td>K 124</td> </tr> <tr> <td>Ref Mon # 3</td> <td>S 197</td> </tr> </table>	Ref Mon # 1	STELL	Ref Mon # 2	K 124	Ref Mon # 3	S 197	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	STELL						
Ref Mon # 2	K 124						
Ref Mon # 3	S 197						

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 38 0.7783872
Longitude	91 54 8.4408444
Ellipsoid Height (M):	41.765
Geoid Height (M):	-25.665

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 133, LOCATED IN WILMAR, GO EAST ON U.S. HIGHWAY 278 AND STATE HIGHWAY 4 FOR 2.74 KM (1.70 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.039 METERS EAST OF THE CENTER OF A FIELD ENTRANCE, 13.421 METERS SOUTH OF THE CENTER OF U.S. 278 AND STATE HIGHWAY 4 AND 0.500 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220005 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	220005A
Geodetic Azimuth	336 37 18.38836
Grid Azimuth	336 34 01.63649

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220005A	Date Monumented 2/5/1998	Monumented By AHTD	County DREW	Route 4	Job Number: 020248,001800
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	507,501.1252	
Easting (M)	408,948.3370	
Elevation (M)*	63.451	
Northing (SFT)	1,665,026.6083	
Easting (SFT)	1,341,691.3356	
Elevation (SFT)*	208.172	

Convergence Angle	0	3	14.3466666
Scale Factor	0.999942512		
Elevation Adjust. Factor	0.9999900426		
Combined Adjust. Factor	0.9999325551		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	R/R TIE FENCE CORNER POST	268		1.30	4.3
MK # 2	TELEPHONE JUNCTION BOX	35		13.00	42.7
MK # 3	0.20 METER CEDAR TREE	336		24.60	80.7

Area Reference Monuments (used for Processing) Ref Mon # 1 STELL Ref Mon # 2 K 124 Ref Mon # 3 S 197	Comments <div style="border: 1px solid black; height: 100px;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 38 9.1369680
Longitude	91 54 12.7605852
Ellipsoid Height (M):	37.786
Geoid Height (M):	-25.665

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 133, LOCATED IN WILMAR, GO EAST ON U.S. HIGHWAY 278 AND STATE HIGHWAY 4 FOR 2.57 KM (1.60 MI) TO THE JUNCTION OF TOWLER ROAD ON THE LEFT, TURN LEFT AND GO NORTH ON TOWLER ROAD FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.80 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVEWAY, 4.30 METERS WEST OF THE CENTER OF TOWLER ROAD AND 1.10 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220005A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	220005
Geodetic Azimuth	156 37 15.99566
Grid Azimuth	156 34 01.63649

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220006	Date Monumented 2/5/1998	Monumented By AHTD	County DREW	Route 4	Job Number: 001800
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	507,361.9642	
Easting (M)	414,376.6320	
Elevation (M)*	76.906	
Northing (SFT)	1,664,570.0442	
Easting (SFT)	1,359,500.6668	
Elevation (SFT)*	252.316	

Convergence Angle	0	5	12.2377124
Scale Factor	0.999942671		
Elevation Adjust. Factor	0.9999879311		
Combined Adjust. Factor	0.9999306028		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	328	8.89	29.2
MK # 2	FIRE HYDRANT	15	4.39	14.4
MK # 3	WEST END OF A 0.50 METER CMP	98	35.35	116.0

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>STELL</td> </tr> <tr> <td>Ref Mon # 2</td> <td>K 124</td> </tr> <tr> <td>Ref Mon # 3</td> <td>S 197</td> </tr> </table>	Ref Mon # 1	STELL	Ref Mon # 2	K 124	Ref Mon # 3	S 197	<table style="width: 100%;"> <tr> <th colspan="2" style="text-align: center;">Comments</th> </tr> <tr> <td colspan="2" style="height: 100px;"></td> </tr> </table>	Comments			
Ref Mon # 1	STELL										
Ref Mon # 2	K 124										
Ref Mon # 3	S 197										
Comments											

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 38 4.4035872

Longitude 91 50 42.1245168

Ellipsoid Height (M): 51.264

Geoid Height (M): -25.642

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425, U.S. HIGHWAY 278 AND STATE HIGHWAY 4, LOCATED IN MONTICELLO, GO WEST ON U.S. HIGHWAY 278 AND STATE HIGHWAY 4 FOR 4.10 KM (2.55 MI) TO THE STATION ON THE RIGHT. THE STATION IS 39.200 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY, 14.750 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 278 AND STATE HIGHWAY 4 AND 4.950 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220006 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220006A	Date Monumented 2/5/1998	Monumented By AHTD	County DREW	Route 4	Job Number: 001800
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	507,367.9152	
Easting (M)	414,975.5120	
Elevation (M)*	70.587	
Northing (SFT)	1,664,589.5685	
Easting (SFT)	1,361,465.4923	
Elevation (SFT)*	231.584	

Convergence Angle	0	5	25.2446206
Scale Factor	0.999942665		
Elevation Adjust. Factor	0.9999889227		
Combined Adjust. Factor	0.9999315884		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	77	4.33	14.2
MK # 2	EAST END OF A 0.40 METER CMP	249	17.81	58.4
MK # 3	COMBINATION POLE	272	52.92	173.6

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>STELL</td> </tr> <tr> <td>Ref Mon # 2</td> <td>K 124</td> </tr> <tr> <td>Ref Mon # 3</td> <td>S 197</td> </tr> </table>	Ref Mon # 1	STELL	Ref Mon # 2	K 124	Ref Mon # 3	S 197	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	STELL							
Ref Mon # 2	K 124							
Ref Mon # 3	S 197							
Comments								

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 38 4.5667104

Longitude 91 50 18.8850588

Ellipsoid Height (M): 44.947

Geoid Height (M): -25.640

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425, U.S. HIGHWAY 278 AND STATE HIGHWAY 4, LOCATED IN MONTICELLO, GO WEST ON U.S. HIGHWAY 278 AND STATE HIGHWAY 4 FOR 3.46 KM (2.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS 20.593 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY, 14.108 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 278 AND STATE HIGHWAY 4 AND 0.500 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220006A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220007	Date Monumented 2/5/1998	Monumented By AHTD	County DREW	Route 425	Job Number: 001800, 020475
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	506,621.0679	0.0020	
Easting (M)	418,319.7011	0.0020	
Elevation (M)*	79.494		

Northing (SFT)	1,662,139.2869		
Easting (SFT)	1,372,437.2194		
Elevation (SFT)*	260.806		

Convergence Angle	0	6	37.8437103
Scale Factor	0.999943493		
Elevation Adjust. Factor	0.9999875250		
Combined Adjust. Factor	0.9999310187		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	33	37	40.1346696
Longitude	91	48	9.1724544
Ellipsoid Height:	53.766		
Grid Northing (Meters)	506,621.0692		
Grid Easting (Meters)	418,319.6940		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425, U.S. HIGHWAY 278 AND STATE HIGHWAY 4, LOCATED IN MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 0.20 KM (0.12 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.494 METERS EAST OF THE CENTER OF A METAL PIPE SEWER LINE, 11.127 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425, 10.462 METERS NORTH OF THE CENTER OF A PAVED ENTRANCE TO A VANCANT LOT AND 0.500 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220007 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	214	31.63	103.8
MK # 2	CENTER OF MAN HOLE COVER	5	40.18	131.8
MK # 3	COMBINATION POLE	230	27.32	89.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM (STELL)	UPDATED ELEV. BASED ON DIGITAL LEVELS BY S5112 FOR JOB #020475 IN SEPT. 2017 BETWEEN NGS BM's A 351 & B 351 WHICH WERE MONUMENTED AND TIED BY S5111 IN 2017. **NOTE: LEVELED ELEVATIONS TO GPS POINTS WERE CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT. *****PREVIOUS ELEV. 79.511m (GEOID HT. -25.635m)*****
Ref Mon # 2 ARMO (K 124)	
Ref Mon # 3 ARPB, MSGN (S 197A)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220007A	Date Monumented 2/5/1998	Monumented By AHTD	County DREW	Route 425	Job Number: 001800, 020475
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	506,146.4070	0.0022			
Easting (M)	418,284.8840	0.0020			
Elevation (M)*	83.551				

Northing (SFT)	1,660,582.0036				
Easting (SFT)	1,372,322.9903				
Elevation (SFT)*	274.117				

Convergence Angle	0	6	37.0677574
Scale Factor	0.999944022		
Elevation Adjust. Factor	0.9999868883		
Combined Adjust. Factor	0.9999309110		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)				
Latitude	33	37	24.7293408		
Longitude	91	48	10.5593544		
Ellipsoid Height:	57.851				
Grid Northing (Meters)	506,146.3912				
Grid Easting (Meters)	418,284.8640				

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425, U.S. HIGHWAY 278 AND STATE HIGHWAY 4, LOCATED IN MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 0.68 KM (0.42 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.870 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.500 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220007A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	178	52.23	171.4
MK # 2	MOST EASTERLY WOODEN POST OF A SIG	307	10.98	36.0
MK # 3	NBC IN A 0.62 METER PINE TREE	84	31.90	104.6

AZ Mark Station	220007
Geodetic Azimuth	4 18 24.85185
Grid Azimuth	4 11 47.78042

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	UPDATED ELEV. BASED ON DIGITAL LEVELS BY S5112 FOR JOB #020475 IN SEPT. 2017 BETWEEN NGS BM's A 351 & B 351 WHICH WERE MONUMENTED AND TIED BY S5111 IN 2017. **NOTE: LEVELED ELEVATIONS TO GPS POINTS WERE CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT. *****PREVIOUS ELEV. 83.486m (GEOID HT. -25.635m)*****
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220008	Date Monumented 2/5/1999	Monumented By AHTD	County DREW	Route 35	Job Number: 001930,020282,DDK
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	515,954.7611	
Easting (M)	408,924.2230	
Elevation (M)*	51.769	
Northing (SFT)	1,692,761.5787	
Easting (SFT)	1,341,612.2216	
Elevation (SFT)*	169.845	

Convergence Angle	0	3	13.9956230
Scale Factor	0.999934200		
Elevation Adjust. Factor	0.9999918758		
Combined Adjust. Factor	0.9999260764		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST IN LINE IRON PIPE BRACE POST	120	18.56	60.9
MK # 2	TELEPHONE JUNCTION BOX	155	51.31	168.3
MK # 3	TELEPHONE JUNCTION BOX	182	34.42	112.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124 Ref Mon # 2 S 197 Ref Mon # 3 AHTD MON 1	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 42 43.5328884
Longitude	91 54 13.3877952
Ellipsoid Height (M):	26.120
Geoid Height (M):	-25.649

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTHWEST ON STATE HIGHWAY 35 FOR 12.29 KM (7.64 MI) TO THE STATION ON THE RIGHT. THE STATION IS 41.46 METERS NORTH OF THE CENTER OF A GRAVEL ROAD (STAFFORD ROAD), 17.26 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 35 AND 0.93 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220008 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVELS BY CREW S5101.

AZ Mark Station	220008A
Geodetic Azimuth	309 28 44
Grid Azimuth	309 25 30

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220008A	Date Monumented 2/5/1999	Monumented By AHTD	County DREW	Route 35	Job Number: 001930,020282,DDK
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	516,262.4941	
Easting (M)	408,549.9160	
Elevation (M)*	48.342	
Northing (SFT)	1,693,771.1994	
Easting (SFT)	1,340,384.1827	
Elevation (SFT)*	158.602	

Convergence Angle	0	3	5.8649335
Scale Factor	0.999933930		
Elevation Adjust. Factor	0.9999924136		
Combined Adjust. Factor	0.9999263441		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK ON TOP OF METAL GUARD R ALL POST	144	3.45	11.3
MK # 2	PUNCH MARK ON TOP OF METAL GUARD R ALL POST	185	1.70	5.6
MK # 3	PUNCH MARK ON TOP OF METAL GUARD R ALL POST	282	5.88	19.3

Area Reference Monuments (used for Processing) Ref Mon # 1 K 124 Ref Mon # 2 S 197 Ref Mon # 3 AHTD MON 1	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 42 53.5327092
Longitude	91 54 27.9149076
Ellipsoid Height (M):	22.693
Geoid Height (M):	-25.651

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTHWEST ON STATE HIGHWAY 35 FOR 12.78 KM (7.94 MI) TO THE STATION ON THE RIGHT SET ON TOP OF A LEVEE. THE STATION IS 6.80 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 35 AND 1.22 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220008A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVEL BY CREW S5101.

AZ Mark Station	220008
Geodetic Azimuth	129 28 34
Grid Azimuth	129 25 29

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220009	Date Monumented 2/5/1999	Monumented By AHTD	County DREW	Route 35	Job Number: 001930,DDK,020282,020286
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	512,499.7392	
Easting (M)	413,875.5380	
Elevation (M)*	73.431	
Northing (SFT)	1,681,426.2277	
Easting (SFT)	1,357,856.6609	
Elevation (SFT)*	240.915	

Convergence Angle	0	5	1.5178716
Scale Factor	0.999937391		
Elevation Adjust. Factor	0.9999884764		
Combined Adjust. Factor	0.9999258681		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	CROSS TIE CORNER FENCE POST	118	22.85	75.0	220009A
MK # 2	CENTER OF HEADWALL	314	19.15	62.8	113 53 08
MK # 3					113 48 07

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124 Ref Mon # 2 S 197 Ref Mon # 3 AHTD MON 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220009A	Date Monumented 2/5/1999	Monumented By AHTD	County DREW	Route 35	Job Number: 001930,DDK,020282,020286
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	512,304.3862	
Easting (M)	414,318.4240	
Elevation (M)*	82.310	
Northing (SFT)	1,680,785.3071	
Easting (SFT)	1,359,309.6961	
Elevation (SFT)*	270.045	

Convergence Angle	0	5	11.1354445
Scale Factor	0.999937580		
Elevation Adjust. Factor	0.9999870830		
Combined Adjust. Factor	0.9999246639		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	213	23.66	77.6	220009
MK # 2	TELEPHONE JUNCTION BOX	294	33.21	108.9	293 53 18
MK # 3					293 48 07

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124 Ref Mon # 2 S 197 Ref Mon # 3 AHTD MON 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220010	Date Monumented 2/23/1998	Monumented By AHTD	County DREW	Route 83	Job Number: 020286
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	511,964.1012	
Easting (M)	420,171.8860	
Elevation (M)*	80.492	
Northing (SFT)	1,679,668.8887	
Easting (SFT)	1,378,513.9293	
Elevation (SFT)*	264.081	

Convergence Angle	0	7	18.3135353
Scale Factor	0.999937922		
Elevation Adjust. Factor	0.9999873683		
Combined Adjust. Factor	0.9999252911		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER VALVE	305	29.48	96.7
MK # 2	GP	1	28.07	92.1
MK # 3	GAS METER	6	11.32	37.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD MON 1	
Ref Mon # 2 E 292	
Ref Mon # 3 220009	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 40 33.4413336
Longitude	91 46 56.8646976
Ellipsoid Height (M):	54.762
Geoid Height (M):	-25.644

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTH, ON U.S. HIGHWAY 425 FOR 3.14 KM (1.95 MI) TO THE JUNCTION OF ROSE HILL CUT OFF ROAD ON THE RIGHT, GO RIGHT, EAST ON ROSE HILL CUT OFF ROAD FOR 1.93 KM (1.20 MI) TO THE JUNCTION OF STATE HIGHWAY 83 AND THE STATION ON THE EAST SIDE OF STATE HIGHWAY 83. THE STATION IS 25.28 METERS SOUTH OF THE EXTENDED CENTER OF ROSE HILL CUT OFF ROAD, 10.98 METERS EAST OF THE CENTER OF STATE HIGHWAY 83 AND 1.28 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "220010 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	220010A
Geodetic Azimuth	358 28 48.37752
Grid Azimuth	358 21 30.06544

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220010A	Date Monumented 2/23/1999	Monumented By AHTD	County DREW	Route 83	Job Number: 020286
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	512,508.3941	
Easting (M)	420,156.2860	
Elevation (M)*	80.411	
Northing (SFT)	1,681,454.6230	
Easting (SFT)	1,378,462.7483	
Elevation (SFT)*	263.814	

Convergence Angle	0	7	17.9996804
Scale Factor	0.999937393		
Elevation Adjust. Factor	0.9999873811		
Combined Adjust. Factor	0.9999247749		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	AHTD MON 1
Ref Mon # 2	E 292
Ref Mon # 3	220009

Comments

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 40 51.1094892

Longitude 91 46 57.4254624

Ellipsoid Height (M): 54.678

Geoid Height (M): -25.645

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTH ON U.S. HIGHWAY 425 FOR 3.14 KM (1.95 MI) TO THE JUNCTION OF ROSE HILL CUT OFF ROAD ON THE RIGHT, GO RIGHT, EAST ON ROSE HILL CUT OFF ROAD FOR 1.93 KM (1.20 MI) TO THE JUNCTION OF STATE HIGHWAY 83, GO LEFT, NORTH ON STATE HIGHWAY 83 FOR 0.16 KM (0.10 MI) TO A CURVE TO THE RIGHT AND A GRAVEL ROAD (COUNTY ROAD 83) STRAIGHT AHEAD, CONTINUE NORTH ON COUNTY ROAD 83 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.00 METERS WEST OF THE CENTER OF COUNTY ROAD 83 AND 2.095 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220010A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220011	Date Monumented 2/9/2000	Monumented By AHTD	County DREW	Route 65	Job Number: R20094
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	523,253.0818				
Easting (M)	449,721.3178				
Elevation (M)*	46.466				
Northing (SFT)	1,716,706.1525				
Easting (SFT)	1,475,460.6901				
Elevation (SFT)*	152.447				

Convergence Angle	0	18	1.6692099
Scale Factor	0.999928524		
Elevation Adjust. Factor	0.9999927080		
Combined Adjust. Factor	0.9999212325		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	23	20.80	68.2
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD MON 1	
Ref Mon # 2 210004	
Ref Mon # 3 090007	

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 46 36.3314568

Longitude 91 27 47.3803668

Ellipsoid Height (M): 20.504

Geoid Height (M): -25.988

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DREW-DESHA COUNTY LINE, LOCATED ON THE NORTHEAST SIDE OF WINCHESTER, GO SOUTH ON U.S. HIGHWAY 65 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.00 METERS EAST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220011 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 449.777 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220019	Date Monumented 1/15/2002	Monumented By AHTD	County DREW	Route N/A	Job Number: 001930,DDK
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	512,115.1781	
Easting (M)	410,702.4210	
Elevation (M)*		
Northing (SFT)	1,680,164.5468	
Easting (SFT)	1,347,446.1929	
Elevation (SFT)*		

Convergence Angle	0	3	52.5561294
Scale Factor	0.999937759		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					220019A
MK # 2						75 49 06
MK # 3						75 45 13

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124 Ref Mon # 2 S 197 Ref Mon # 3 AHTD MON 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220019A	Date Monumented 1/15/2002	Monumented By AHTD	County DREW	Route N/A	Job Number: 001930,DDK
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	512,280.7062	
Easting (M)	411,354.3660	
Elevation (M)*		
Northing (SFT)	1,680,707.6169	
Easting (SFT)	1,349,585.1158	
Elevation (SFT)*		

Convergence Angle	0	4	6.7267272
Scale Factor	0.999937599		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE GATE POST	283	4.60	15.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124	
Ref Mon # 2 S 197	
Ref Mon # 3 AHTD MON 1	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 40 44.1932232
Longitude	91 52 39.1730700
Ellipsoid Height (M):	47.590
Geoid Height (M):	-25.643

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTHWEST ON STATE HIGHWAY 35 FOR 7.644 KM (4.75 MI) TO AVERY ROAD (DREW COUNTY 109) ON THE LEFT, TURN LEFT ON AVERY ROAD AND GO 2.285 KM (1.42 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.40 METERS EAST OF A FIELD ENTRANCE, 6.70 METERS NORTH OF A GRAVEL ROAD (AVERY ROAD), AND 0.85 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220019A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	220019
Geodetic Azimuth	255 49 20
Grid Azimuth	255 45 13

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220020	Date Monumented 1/15/2002	Monumented By AHTD	County DREW	Route N/A	Job Number: 001930
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	521,339.0701	
Easting (M)	408,418.5570	
Elevation (M)*		
Northing (SFT)	1,710,426.5992	
Easting (SFT)	1,339,953.2158	
Elevation (SFT)*		

Convergence Angle	0	3	3.1073155
Scale Factor	0.999929820		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WOODEN IN LINE BRACE POST	247	7.00	23.0	220020A
MK # 2	WOOD FENCE POST	88	6.50	21.3	268 59 59
MK # 3					268 56 56

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124	
Ref Mon # 2 AHTD LITTLE ROCK	
Ref Mon # 3 AHTD MON 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220020A	Date Monumented 1/15/2002	Monumented By AHTD	County DREW	Route N/A	Job Number: 001930
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	521,331.3511	
Easting (M)	407,997.7770	
Elevation (M)*		
Northing (SFT)	1,710,401.2744	
Easting (SFT)	1,338,572.7067	
Elevation (SFT)*		

Convergence Angle	0	2	53.9550302
Scale Factor	0.999929825		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE FENCE POST	170	1.85	6.1
MK # 2	CROSS TIE FENCE POST	118	3.07	10.1
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124	
Ref Mon # 2 AHTD LITTLE ROCK	
Ref Mon # 3 AHTD MON 1	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 45 38.0769012
Longitude	91 54 49.1943456
Ellipsoid Height (M):	42.665
Geoid Height (M):	-25.659

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTHWEST ON STATE HIGHWAY 35 FOR 13.985 KM (8.69 MI) TO ROCK SPRINGS ROAD ON THE RIGHT. TURN RIGHT (NORTH) ON ROCK SPRINGS ROAD AND GO NORTHEAST 5.069 KM (3.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS 5.90 METERS SOUTH OF THE CENTER OF ROCK SPRINGS ROAD AND 1.42 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220020A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	220020
Geodetic Azimuth	88 59 50
Grid Azimuth	88 56 56

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220021	Date Monumented 10/26/2004	Monumented By AHTD	County DREW	Route 278	Job Number: 20418,020462,001873, 02067
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	507,646.3811	0.0010
Easting (M)	428,057.1324	0.0010
Elevation (M)*	59.257	

Northing (SFT)	1,665,503.1687	
Easting (SFT)	1,404,384.1085	
Elevation (SFT)*	194.412	

Convergence Angle	0	10	9.3734879
Scale Factor	0.999942395		
Elevation Adjust. Factor	0.9999907007		
Combined Adjust. Factor	0.9999330963		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	33	38	12.6435264
Longitude	33	38	12.6435264
Ellipsoid Height:	33.470		
Grid Northing (Meters)	2,009,669.2138		
Grid Easting (Meters)	5,525,812.0831		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 35 AND STATE HIGHWAY 278, EAST OF MONTICELLO, GO EAST ON HIGHWAY 278 3.6 MILES TO THE STATION MARK ON THE LEFT, NORTH 11.00 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220021 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND.

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NORTHEAST END OF PLASTIC CULVERT		222	5.50	18.0
MK # 2	C/L FARM ACCESS ROAD		248	9.80	32.2
MK # 3	POWER POLE		270	18.90	62.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM (CSAL)	3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006. Verified by crew S5101 tying into USGS point 33JEK(NGVD29 193.061 to NAVD88 192.70) found in NW Collins Quad (ELEV . 59.2643m, GEOID HT. - 25.676m) *****OLD ELEV. 194.4478 SF BY S5103 IN 2006 UPDATED IN MARCH 2018 BY S5111 BASED OFF OF ONE OF THEIR 2ND ORDER NGS BM's (Q 351)
Ref Mon # 2 ARMO (ZME1)	
Ref Mon # 3 IULM,ARPB,MSGN,(OKOM)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220021A	Date Monumented 10/26/2004	Monumented By AHTD	County DREW	Route 278	Job Number: 20418,020462,001873, 02067
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	507,736.1927	0.0010
Easting (M)	428,762.1954	0.0010
Elevation (M)*	59.127	

Northing (SFT)	1,665,797.8255	
Easting (SFT)	1,406,697.3027	
Elevation (SFT)*	193.986	

Convergence Angle	0	10	24.6925831
Scale Factor	0.999942300		
Elevation Adjust. Factor	0.9999907211		
Combined Adjust. Factor	0.9999330217		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	33	38	15.4903164
Longitude	91	41	23.8612848
Ellipsoid Height:	33.330		
Grid Northing (Meters)	507,736.1992		
Grid Easting (Meters)	428,762.1890		

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 35 AND STATE HIGHWAY 278, EAST OF MONTICELLO, GO EAST ON HIGHWAY 278 4.1 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 6.90 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 2.40 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220021A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM (CSAL)</p> <p>Ref Mon # 2 ARMO (ZME1)</p> <p>Ref Mon # 3 IULM,ARPB,MSGN (OKOM)</p>	<p style="text-align: center;">Comments</p> <p>3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006. Verified by crew S5101 tying into USGS point 33JEK(NGVD29 193.061 to NAVD88 192.70) found in NW Collins Quad (ELEV . 59.1421m, GEOID HT. - 25.682m)</p> <p>*****OLD</p> <p>ELEV. 194.0334 SF BY S5103 IN 2006 UPDATED IN MARCH 2018 BY S5111 BASED OFF OF ONE OF THEIR 2ND ORDER NGS BM's (R 351)</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220022	Date Monumented 10/26/2004	Monumented By AHTD	County DREW	Route 278	Job Number: 020418
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	509,187.4481	
Easting (M)	434,327.3560	
Elevation (M)*	54.735	
Northing (SFT)	1,670,559.1526	
Easting (SFT)	1,424,955.6671	
Elevation (SFT)*	179.578	

Convergence Angle	0	12	25.6765361
Scale Factor	0.999940774		
Elevation Adjust. Factor	0.9999914103		
Combined Adjust. Factor	0.9999321848		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF CULVERT	255	5.70	18.7
MK # 2	EAST END OF CULVERT	22	6.30	20.7
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CSAL Ref Mon # 2 ZME1 Ref Mon # 3 OKOM	3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220022A	Date Monumented 10/26/2004	Monumented By AHTD	County DREW	Route 278	Job Number: 020418
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	508,814.5922	
Easting (M)	433,914.2700	
Elevation (M)*	56.007	
Northing (SFT)	1,669,335.8746	
Easting (SFT)	1,423,600.4008	
Elevation (SFT)*	183.751	

Convergence Angle	0	12	16.6744203
Scale Factor	0.999941165		
Elevation Adjust. Factor	0.9999912107		
Combined Adjust. Factor	0.9999323762		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	MILE MARKER	205	11.60	38.1	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CSAL Ref Mon # 2 ZME1 Ref Mon # 3 OKOM	3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006.

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 38 49.9417116
Longitude	91 38 3.7829580
Ellipsoid Height (M):	30.143
Geoid Height (M):	-25.739

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 35 AND STATE HIGHWAY 278, EAST OF MONTICELLO, GO EAST ON HIGHWAY 278 7.4 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST 5.20 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTHWEST 6.30 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220022A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220023	Date Monumented 10/26/2004	Monumented By AHTD	County DREW	Route 278	Job Number: 020418,020678
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	511,325.4320	0.0010	
Easting (M)	437,313.4766	0.0010	
Elevation (M)*	53.266		

Northing (SFT)	1,677,573.5215		
Easting (SFT)	1,434,752.6311		
Elevation (SFT)*	174.757		

Convergence Angle	0	13	30.7244882
Scale Factor	0.999938603		
Elevation Adjust. Factor	0.9999916409		
Combined Adjust. Factor	0.9999302444		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	33	40	11.0263584
Longitude	91	35	51.4781808
Ellipsoid Height:	27.360		
Grid Northing (Meters)	511,325.4331		
Grid Easting (Meters)	437,313.4620		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 35 AND STATE HIGHWAY 278, EAST OF MONTICELLO, GO EAST ON HIGHWAY 278 10.1 MILES TO THE STATION MARK ON THE LEFT, NORTH 12.50 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.70 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220023 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	65	11.90	39.0
MK # 2	POWER POLE	61	7.20	23.6
MK # 3	CROSS TIE POST	245	13.20	43.3

AZ Mark Station	220023A
Geodetic Azimuth	67 25 08
Grid Azimuth	67 11 37

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM (CSAL)	3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006. (ELEV . 53.28055m, GEOID HT. -25.793m) *****OLD ELEV. 174.8046 SF BY S5103 IN 2006 UPDATED IN MARCH 2018 BY S5111 BASED OFF OF ONE OF THEIR 2ND ORDER NGS BM's (W 351) ALONG HWY. 278 THAT THEY ESTABLISHED IN 2018.
Ref Mon # 2 ARMO (ZME1)	
Ref Mon # 3 IULM,ARPB,MSGN (OKOM)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220023A	Date Monumented 10/26/2004	Monumented By AHTD	County DREW	Route 278	Job Number: 020418,020678
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	511,541.3837	0.0010	
Easting (M)	437,827.0756	0.0010	
Elevation (M)*	52.550		
Northing (SFT)	1,678,282.0230		
Easting (SFT)	1,436,437.6639		
Elevation (SFT)*	172.408		

Convergence Angle	0	13	41.9022341
Scale Factor	0.999938391		
Elevation Adjust. Factor	0.9999917533		
Combined Adjust. Factor	0.9999301448		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	33	40	17.9700492
Longitude	91	35	31.5075120
Ellipsoid Height:	26.642		
Grid Northing (Meters)	511,541.3902		
Grid Easting (Meters)	437,827.0450		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWE POLE	251	23.45	76.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM (CSAL)	3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006. (ELEV . 52.56021m, GEOID HT. -25.801m) *****OLD ELEV. 172.4413 SF BY S5103 IN 2006 UPDATED IN MARCH 2018 BY S5111 BASED OFF OF ONE OF THEIR 2ND ORDER NGS BM's (W 351) ALONG HWY. 278 THAT THEY ESTABLISHED IN 2018.
Ref Mon # 2 ARMO (ZME1)	
Ref Mon # 3 IULM,ARPB,MSGN (OKOM)	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	33 40 17.9698332
Longitude	91 35 31.5063240
Ellipsoid Height (M):	26.684 0.0040
Geoid Height (M):	-25.881 0.0040

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 35 AND STATE HIGHWAY 278, EAST OF MONTICELLO, GO EAST ON HIGHWAY 278 10.45 MILES TO THE STATION MARK ON THE LEFT, NORTH 10.45 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.70 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220023A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220024	Date Monumented 9/20/2006	Monumented By AHTD	County Drew	Route CR359	Job Number: 001873,020462,020470
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	505,393.7502	
Easting (M)	405,675.5480	
Elevation (M)*	48.719	
Northing (SFT)	1,658,112.6621	
Easting (SFT)	1,330,953.8604	
Elevation (SFT)*	159.838	

Convergence Angle	0	2	3.2384658
Scale Factor	0.999944854		
Elevation Adjust. Factor	0.9999923545		
Combined Adjust. Factor	0.9999372089		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	gas line test valve		153	5.39	17.7
MK # 2	Telephone riser		44	9.33	30.6
MK # 3	Cable marker		242	12.19	40.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS	
Ref Mon # 3 W 77, T 83, 220013, 220001A	

Location Description
<p>To reach the station from highways 278 and 133 north in Wilmar go south at this intersection on south 7th street for 0.10 miles to Gates ave.. Turn right on Gates ave. and go 0.50 miles to south 12th street. Turn left on south 12th street and go 0.65 miles to the station on the left 15 feet north of the center of a gas line right of way. 8.90 feet east of the center of south 12th street and 31.0 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "220024 2006" set on top of a 5/8 inch by 4 foot long rebar and is .060 feet below the surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220024A	Date Monumented 9/20/2006	Monumented By AHTD	County Drew	Route CR359	Job Number: 01873,020462,020470,C2200
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	504,942.3421	
Easting (M)	405,461.5130	
Elevation (M)*	46.770	
Northing (SFT)	1,656,631.6674	
Easting (SFT)	1,330,251.6472	
Elevation (SFT)*	153.444	

Convergence Angle	0	1	58.5852910
Scale Factor	0.999945371		
Elevation Adjust. Factor	0.9999926604		
Combined Adjust. Factor	0.9999380318		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS	
Ref Mon # 3 W 77, T 83, 220013, 220001A	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 36 46.1674944
Longitude	91 56 28.1235228
Ellipsoid Height (M):	21.098
Geoid Height (M):	-25.692

Location Description
<p>To reach the station from the junction of highways 278, 133 and 7th street in Wilmar go south on 7th street for 0.10 miles to Gates ave., go right on Gates ave. and go 0.50 miles to south 12th street, turn left and go 0.95 miles on south 12th street to the station on the right 100.7 feet north of the center of a power line right of way. 8.0 feet west of the center of the road and 12.0 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "220024A 2006" set on top of a 5/8 inch by 4 foot rebar and is 0.70 feet below the surface.</p>

AZ Mark Station	220024
Geodetic Azimuth	25 24 03
Grid Azimuth	25 22 05

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220025	Date Monumented 9/20/2006	Monumented By AHTD	County Drew	Route NA	Job Number: 001873,020462,020470
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	502,713.9911	
Easting (M)	407,750.9390	
Elevation (M)*	49.924	
Northing (SFT)	1,649,320.8191	
Easting (SFT)	1,337,762.8724	
Elevation (SFT)*	163.793	

Convergence Angle	0	2	48.2558835
Scale Factor	0.999947995		
Elevation Adjust. Factor	0.9999921653		
Combined Adjust. Factor	0.9999401608		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>To reach the station from the junction of highways 133 north, south 7th street and 278 in Wilmar go south on 7th street for 0.90 miles to Drew county road 17 (Dave Knight road), turnleft on CR17 and go 1.20 miles to a "T" intersection. Turn right on CR16 (Sallis Rd.) and go 2.10 miles to the station on the left. 5.50 feet south of the center of the road and 11.0 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "220025 2006" set on top of a 5/8 inch by 4 foot long rebar and is 0.60 feet below the surface.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	92	40.97	134.4
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 Warrport, Warrport Az.</p> <p>Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS</p> <p>Ref Mon # 3 W 77, T 83, 220013, 220001A</p>	<p style="text-align: center;">Comments</p> <p>3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220025A	Date Monumented 9/20/2006	Monumented By AHTD	County Drew	Route CR16	Job Number: 001873,020462,020470
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	502,724.1542	
Easting (M)	408,265.8990	
Elevation (M)*	53.029	
Northing (SFT)	1,649,354.1626	
Easting (SFT)	1,339,452.3703	
Elevation (SFT)*	173.981	

Convergence Angle	0	2	59.4347215
Scale Factor	0.999947984		
Elevation Adjust. Factor	0.9999916780		
Combined Adjust. Factor	0.9999396625		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Fourteen inch pine tree	232	17.92	58.8	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220026	Date Monumented 9/20/2006	Monumented By AHTD	County Drew	Route NA	Job Number: 001873, 020462,020470
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	500,829.6242	
Easting (M)	413,648.0870	
Elevation (M)*	64.237	
Northing (SFT)	1,643,138.5254	
Easting (SFT)	1,357,110.4321	
Elevation (SFT)*	210.751	

Convergence Angle	0	4	56.2111502
Scale Factor	0.999950317		
Elevation Adjust. Factor	0.9999899192		
Combined Adjust. Factor	0.9999402367		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83 (ELEV. 64.20795 m). UPDATED ELEV. IN JUNE OF 2012 BASED ON DIGITAL LEVELS BY B&F ENGINEERING BETWEEN & CONSTRAINING GPS POINTS 220013, 220025A, 220024A, & M 319.
Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS	
Ref Mon # 3 W 77, T 83, 220013, 220001A	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 34 32.4058224
Longitude	91 51 10.7591940
Ellipsoid Height (M):	38.568
Geoid Height (M):	-25.652

Location Description
<p>To reach the station from the intersection of highways 278 and 425 in Monticello go south on 425 for 3.20 miles to Bowser road on the right, turn right on Bowser road and go 3.10 miles to a stop sign at South Bowser road, turn right on South Bowser road and go 0.75 miles to the station on the left at sharp curve to the right. 35.60 feet southeast of the center of the road and 1.50 feet northwest of a witness post. The station mark is a 2 1/2 inch cap stamped "220026 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220026A	Date Monumented 9/20/2006	Monumented By AHTD	County Drew	Route NA	Job Number: 001873, 020462,020470
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	500,874.0112
Easting (M)	413,129.7720
Elevation (M)*	62.613
Northing (SFT)	1,643,284.1517
Easting (SFT)	1,355,409.9270
Elevation (SFT)*	205.423

Convergence Angle	0	4	44.9632500
Scale Factor	0.999950260		
Elevation Adjust. Factor	0.9999901741		
Combined Adjust. Factor	0.9999404345		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	None		
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS	
Ref Mon # 3 W 77, T 83, 220013, 220001A	

Location Description
To reach the station from the intersection of highways 278 and 425 in Monticello go south on 425 for 3.20 miles to Bowser road on the right, turn right on Bowser road and go 3.10 miles to a stop sign at South Bowser road, turn right on South Bowser road and go 1.10 miles to the station on the right 26.70 feet north of the center of the road and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "220026A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

AZ Mark Station	220026
Geodetic Azimuth	94 58 26
Grid Azimuth	94 53 41

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220027	Date Monumented 9/20/2006	Monumented By AHTD	County Drew	Route NA	Job Number: 001873,020462
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	501,409.9251	
Easting (M)	423,284.6680	
Elevation (M)*	72.971	
Northing (SFT)	1,645,042.3959	
Easting (SFT)	1,388,726.4483	
Elevation (SFT)*	239.407	

Convergence Angle	0	8	25.3888078
Scale Factor	0.999949618		
Elevation Adjust. Factor	0.9999885485		
Combined Adjust. Factor	0.9999381671		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Cross tie fence corner	89	11.16	36.6
MK # 2	Fence corner	45	16.46	54.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS	
Ref Mon # 3 W 77, T 83, 220013, 220001A	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 34 50.6339616
Longitude	91 44 57.0212304
Ellipsoid Height (M):	47.355
Geoid Height (M):	-25.640

Location Description
<p>To reach the station from the junction of highways 278 and 83 south on the square in Monticello go south on hwy-83 for 0.90 miles to Midway road on the left, turn left on Midwat road and go 0.40 miles to Old Troy road on the left, turn left on Old Troy road and go 3.30 miles to the station on the right. 9.70 feet south of the center of the road and 10.0 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "2200027 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>

AZ Mark Station	220027A
Geodetic Azimuth	272 11 58
Grid Azimuth	272 03 32

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220027A	Date Monumented 9/20/2006	Monumented By AHTD	County Drew	Route NA	Job Number: 001873,020462
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	501,423.5682	
Easting (M)	422,905.1780	
Elevation (M)*	73.718	
Northing (SFT)	1,645,087.1567	
Easting (SFT)	1,387,481.4048	
Elevation (SFT)*	241.855	

Convergence Angle	0	8	17.1528021
Scale Factor	0.999949600		
Elevation Adjust. Factor	0.9999884314		
Combined Adjust. Factor	0.9999380320		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Power pole	236	22.07	72.4	
MK # 2	24 inch Post oak tree	253	30.78	101.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS	
Ref Mon # 3 W 77, T 83, 220013, 220001A	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 34 51.1067352
Longitude	91 45 11.7365112
Ellipsoid Height (M):	48.097
Geoid Height (M):	-25.639

Location Description
<p>To reach the station from the junction of highways 278 and 83 south on the square in Monticello go south on hwy-83 for 0.90 miles to Midway road on the left, turn left on Midwat road and go 0.40 miles to Old Troy road on the left, turn left on Old Troy road and go 3.10 miles to the station on the left. 15.40 feet north of the center of the road and 1.5 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "2200027A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>

AZ Mark Station	220027
Geodetic Azimuth	92 11 50
Grid Azimuth	92 03 32

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220028	Date Monumented 9/20/2006	Monumented By AHTD	County Drew	Route 35	Job Number: 001873,020462
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	502,287.1492	
Easting (M)	429,898.8370	
Elevation (M)*		
Northing (SFT)	1,647,920.4220	
Easting (SFT)	1,410,426.4344	
Elevation (SFT)*		

Convergence Angle	0	10	49.0070161
Scale Factor	0.999948565		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SE corner of a church	192	34.65	113.7
MK # 2	Light pole	240	16.64	54.6
MK # 3	SW corner of telephone riser	137	12.89	42.3

Area Reference Monuments (used for Processing) Ref Mon # 1 Warrport, Warrport Az. Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS Ref Mon # 3 W 77, T 83, 220013, 220001A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 35 18.5068680
Longitude	91 40 40.4184108
Ellipsoid Height (M):	29.131
Geoid Height (M):	-25.685

Location Description
<p>To reach the station from the junction of highways 278 and 35 east of Monticello go southeast on hwy-35 for 5.50 miles to the station on the right in front of the Enon baptist church. 33.30 feet southwest of the center of hwy-35, 74.10 feet northwest of the center of a driveway to the church and 1.50 feet northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "220028 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>

AZ Mark Station	220028A
Geodetic Azimuth	136 09 04
Grid Azimuth	135 58 15

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220028A	Date Monumented 9/20/2006	Monumented By AHTD	County Drew	Route 35	Job Number: 001873,020462
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	501,810.4352	
Easting (M)	430,359.6660	
Elevation (M)*		
Northing (SFT)	1,646,356.4028	
Easting (SFT)	1,411,938.3375	
Elevation (SFT)*		

Convergence Angle	0	10	58.9769947
Scale Factor	0.999949149		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>To reach the station from the junction of highways 278 and 35, east of Monticello go southeast on hwy-35 for 5.90 miles to the station on the left. 40.60 feet northeast of the center of hwy-35 and 1.50 feet southwest of a witness post. The station mark is a 2 1/2 inch cap stamped "220028A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole with transformer	128	24.63	80.8
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 Warrport, Warrport Az.</p> <p>Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS</p> <p>Ref Mon # 3 W 77, T 83, 220013, 220001A</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220029	Date Monumented 9/20/2006	Monumented By AHTD	County Drew	Route CR49	Job Number: 001873,020462
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	499,724.6861	
Easting (M)	428,048.8540	
Elevation (M)*		
Northing (SFT)	1,639,513.4076	
Easting (SFT)	1,404,356.9485	
Elevation (SFT)*		

Convergence Angle	0	10	8.6859684
Scale Factor	0.999951754		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	None			
MK # 2				
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>Warrport, Warrport Az.</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARCM,ARLR, UAM AFRC SIS</td> </tr> <tr> <td>Ref Mon # 3</td> <td>W 77, T 83, 220013, 220001A</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	Warrport, Warrport Az.	Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS	Ref Mon # 3	W 77, T 83, 220013, 220001A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	Warrport, Warrport Az.										
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS										
Ref Mon # 3	W 77, T 83, 220013, 220001A										
Comments											

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 33 55.5154056
Longitude	91 41 52.4600736
Ellipsoid Height (M):	33.928
Geoid Height (M):	-25.666

Location Description
<p>To reach the station from the junction of highways 278 and 35 on the east side of Monticello go south on hwy-35 for 5.95 miles to county road 49, also called the "Enon-Dean road" on the right, turn right on CR49 and go 7.50 miles to a rail road crossing, turn left after crossing the tracks and go 0.35 miles to the station on the right. 24.70 feet west of the center of CR49, 182.0 feet south of a east-west treeline and 1.50 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "220029 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220029A	Date Monumented 9/20/2006	Monumented By AHTD	County Drew	Route CR49	Job Number: 001873,020462
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	499,103.3021
Easting (M)	428,047.4800
Elevation (M)*	
Northing (SFT)	1,637,474.7503
Easting (SFT)	1,404,352.4406
Elevation (SFT)*	

Convergence Angle	0 10	8.6163641
Scale Factor	0.999952553	
Elevation Adjust. Factor		
Combined Adjust. Factor		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 33 35.3461320
Longitude	91 41 52.5844356
Ellipsoid Height (M):	34.486
Geoid Height (M):	-25.666

Location Description
<p>To reach the station from the junction of highways 278 and 35 on the east side of Monticello go south on hwy-35 for 5.95 miles to county road 49, also called the "Enon-Dean road" on the right, turn right on CR49 and go 7.50 miles to a rail road crossing, turn left after crossing the tracks and go 0.70 miles to the station on the right. 33.20 feet west of the center of CR49, 32.20 feet north of a gravel drive and 1.50 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "220029A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	North gate post	207	6.70	22.0
MK # 2	Power pole with guy wire	88	16.95	55.6
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Warrport, Warrport Az. Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS Ref Mon # 3 W 77, T 83, 220013, 220001A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220030	Date Monumented 9/21/2006	Monumented By AHTD	County Drew	Route NA	Job Number: 001873,020462,020678
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	511,483.9032 0.0010
Easting (M)	433,730.6154 0.0010
Elevation (M)*	56.845
Northing (SFT)	1,678,093.4391
Easting (SFT)	1,422,997.8607
Elevation (SFT)*	186.499

Convergence Angle	0 12 12.8911868
Scale Factor	0.999938432
Elevation Adjust. Factor	0.9999910793
Combined Adjust. Factor	0.9999295118

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	33	40	16.6052352
Longitude	91	38	10.5432180
Ellipsoid Height:	31.137		
Grid Northing (Meters)	511,483.9031		
Grid Easting (Meters)	433,730.5960		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	East gate post	168	31.09	102.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM (Warrport, Warrport Az.) Ref Mon # 2 ARMO (ARCM,ARLR, UAM A) Ref Mon # 3 IULM,ARPB,MSGN (W 77, T 8)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> OLD GEOID HT. -25.744m *****ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS U 351. </td> </tr> </table>	Comments	OLD GEOID HT. -25.744m *****ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS U 351.
Comments			
OLD GEOID HT. -25.744m *****ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS U 351.			

Location Description
To reach the station from the junction of highways 293 and 138 north of Selma go west on hwy-138 for 4.40 miles to Lytle road on the left. Turn left on Lytle road passing through a gate and go 1.40 miles to a road junction, go left at the junction and continue ahead for 0.80 miles to a road on the left. Continue straight ahead for 0.30 miles to the station 6.00 feet east of the center of the road and 26.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "220030 2006" set on top of a 5/8 inch by 4 foot long rebar and is 0.50 feet below the surface.

AZ Mark Station	220030A
Geodetic Azimuth	358 26 52
Grid Azimuth	358 14 40

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220030A	Date Monumented 9/21/2006	Monumented By AHTD	County Drew	Route NA	Job Number: 001873,020462,020678
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	512,071.3222 0.0010
Easting (M)	433,712.6026 0.0010
Elevation (M)*	57.505
Northing (SFT)	1,680,020.6629
Easting (SFT)	1,422,938.7637
Elevation (SFT)*	188.664

Convergence Angle	0 12 12.5451421
Scale Factor	0.999937855
Elevation Adjust. Factor	0.9999909757
Combined Adjust. Factor	0.9999288313

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	33	40	35.6739780
Longitude	91	38	11.1612372
Ellipsoid Height:	31.793		
Grid Northing (Meters)	512,071.3172		
Grid Easting (Meters)	433,712.5900		

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM (Warrport, Warrport Az.) Ref Mon # 2 ARMO (ARCM,ARLR, UAM A) Ref Mon # 3 IULM,ARPB,MSGN (W 77, T 8)	OLD GEOID HT. -25.746m *****ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS U 351.

Vertical Determined By: 3rd Order - Digital Levels	Elevation Datum: NAVD 88
Geoid Datum: Geoid12B	Latitude 33 40 35.6741400
Longitude 91 38 11.1607440	Ellipsoid Height (M): 31.693 0.0050
Geoid Height (M): -25.824 0.0050	

Location Description
To reach the station from the junction of highways 293 and 138 north of Selma go west on hwy-138 for 4.40 miles to Lytle road on the left. Turn left on Lytle road passing through a gate and go 1.40 miles to a road junction, go left at the junction and continue ahead for 0.80 miles to a road on the left and the station mark in the middle of the intersection. 12.30 feet east of the center of the main road and 39.7 feet northwest of a witness post. The station mark is a 2 1/2 inch cap stamped "220030A 2006" set on top of a 5/8 inch by 4 foot long rebar and is 0.50 feet below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220031	Date Monumented 9/28/2006	Monumented By AHTD	County Drew	Route NA	Job Number: 001873,020462, 020678
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	510,454.8123	0.0010			
Easting (M)	431,405.3129	0.0010			
Elevation (M)*	56.854				
Northing (SFT)	1,674,717.1634				
Easting (SFT)	1,415,368.9307				
Elevation (SFT)*	186.527				

Convergence Angle	0	11	22.2939602
Scale Factor	0.999939457		
Elevation Adjust. Factor	0.9999910779		
Combined Adjust. Factor	0.9999305354		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	33	39	43.4610972
Longitude	91	39	40.9448988
Ellipsoid Height:	31.170		
Grid Northing (Meters)	510,454.8081		
Grid Easting (Meters)	431,405.3050		

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM (Warrport, Warrport Az.)	OLD GEOID HT. -25.714m *****ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS S 351.
Ref Mon # 2 ARMO (ARCM,ARLR, UAM A)	
Ref Mon # 3 IULM,ARPB,MSGN (W 77, T 8	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220031A	Date Monumented 9/28/2006	Monumented By AHTD	County Drew	Route NA	Job Number: 001873,020462,020678
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	509,982.9149 0.0010
Easting (M)	431,449.4753 0.0010
Elevation (M)*	54.322
Northing (SFT)	1,673,168.9466
Easting (SFT)	1,415,513.8202
Elevation (SFT)*	178.222

Convergence Angle	0 11 23.2194418
Scale Factor	0.999939939
Elevation Adjust. Factor	0.9999914751
Combined Adjust. Factor	0.9999314147

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	33	39	28.1395800
Longitude	91	39	39.2918580
Ellipsoid Height:	28.630		
Grid Northing (Meters)	509,982.9231		
Grid Easting (Meters)	431,449.4540		

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM (Warrport, Warrport Az.)	OLD GEOID HT. -25.713m *****ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS S 351.
Ref Mon # 2 ARMO (ARCM,ARLR, UAM A)	
Ref Mon # 3 IULM,ARPB,MSGN (W 77, T 8	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220032	Date Monumented 3/5/2007	Monumented By AHTD	County Drew	Route 278	Job Number: 01873, 020462,020470,C2200
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	507,232.1362
Easting (M)	409,566.4960
Elevation (M)*	61.977
Northing (SFT)	1,664,144.1002
Easting (SFT)	1,343,719.4123
Elevation (SFT)*	203.335

Convergence Angle	0	3	27.7664129
Scale Factor	0.999942806		
Elevation Adjust. Factor	0.9999902739		
Combined Adjust. Factor	0.9999330805		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Right of way marker	88	29.60	97.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS	
Ref Mon # 3 W 77, T 83, 220013, 220001A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220033	Date Monumented 3/5/2007	Monumented By AHTD	County Drew	Route 35	Job Number: 001873, 020462
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	504,063.0661	
Easting (M)	424,808.1710	
Elevation (M)*	64.312	
Northing (SFT)	1,653,746.9094	
Easting (SFT)	1,393,724.8077	
Elevation (SFT)*	210.997	

Convergence Angle	0	8	58.6063430
Scale Factor	0.999946427		
Elevation Adjust. Factor	0.9999899075		
Combined Adjust. Factor	0.9999363350		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Water meter	160	4.63	15.2
MK # 2	Fence corner	180	0.67	2.2
MK # 3	Water meter	191	4.42	14.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS	
Ref Mon # 3 W 77, T 83, 220013, 220001A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220033A	Date Monumented 3/5/2007	Monumented By AHTD	County Drew	Route 35	Job Number: 001873, 020462
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	504,033.5742	
Easting (M)	425,374.1990	
Elevation (M)*	62.149	
Northing (SFT)	1,653,650.1514	
Easting (SFT)	1,395,581.8512	
Elevation (SFT)*	203.899	

Convergence Angle	0	9	10.8935197
Scale Factor	0.999946463		
Elevation Adjust. Factor	0.9999902470		
Combined Adjust. Factor	0.9999367105		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fire hydrant	323	2.99	9.8
MK # 2	Water valve	38	2.74	9.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS	
Ref Mon # 3 W 77, T 83, 220013, 220001A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220034	Date Monumented 1/24/2017	Monumented By AHTD	County DREW	Route 277	Job Number: 020589
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	514,086.3334	0.0040	
Easting (M)	447,754.9017	0.0040	
Elevation (M)*	46.558		
Northing (SFT)	1,686,631.5788		
Easting (SFT)	1,469,009.2067		
Elevation (SFT)*	152.750		

Convergence Angle	0	17	17.8878465
Scale Factor	0.999935993		
Elevation Adjust. Factor	0.9999926936		
Combined Adjust. Factor	0.9999286870		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE W/GUY	59	23.56	77.3
MK # 2	WEST END 24" CMP	97	4.18	13.7
MK # 3	SOUTH END OF DELTA PLASTIC SIGN	340	6.00	19.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARPB Ref Mon # 3 MSGN	ELEV. BASED ON DIGITAL LEVELS FROM NGS/ARDOT BM J 352 IN APRIL 2018 BY S5111 FOR JOB #020678. *****STATIC GPS DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARCM & ARLR.

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND STATE HIGHWAY 277 SOUTH, IN TILLAR, GO SOUTH ON HIGHWAY 277 FOR 2.45 MILES TO THE MARK ON THE RIGHT, 48.0' NORTH OF THE CENTERLINE OF THE HIGHWAY, WEST 31.0' OF THE CENTERLINE OF A GRAVEL DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "220034 2017" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220034A	Date Monumented 1/24/2017	Monumented By AHTD	County DREW	Route 277	Job Number: 020589
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	514,065.5962	0.0040			
Easting (M)	447,255.5564	0.0040			
Elevation (M)*	46.401				
Northing (SFT)	1,686,563.5435				
Easting (SFT)	1,467,370.9380				
Elevation (SFT)*	152.235				

Convergence Angle	0	17	7.0331917
Scale Factor	0.999936010		
Elevation Adjust. Factor	0.9999927182		
Combined Adjust. Factor	0.9999287286		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF HEADWALL	228	8.44	27.7
MK # 2				
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARPB</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MSGN</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARCM	Ref Mon # 2	ARPB	Ref Mon # 3	MSGN	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ELEV. BASED ON DIGITAL LEVELS FROM NGS/ARDOT BM J 352 IN APRIL 2018 BY S5111 FOR JOB #020678. *****STATIC GPS DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARCM & ARLR. </td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM NGS/ARDOT BM J 352 IN APRIL 2018 BY S5111 FOR JOB #020678. *****STATIC GPS DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARCM & ARLR.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARCM										
Ref Mon # 2	ARPB										
Ref Mon # 3	MSGN										
Comments											
ELEV. BASED ON DIGITAL LEVELS FROM NGS/ARDOT BM J 352 IN APRIL 2018 BY S5111 FOR JOB #020678. *****STATIC GPS DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARCM & ARLR.											

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12B
Latitude	33 41 38.5303848
Longitude	91 29 24.9986040
Ellipsoid Height (M):	20.371 0.0080
Geoid Height (M):	-26.042 0.0080

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND STATE HIGHWAY 277 SOUTH, IN TILLAR, GO SOUTH ON HIGHWAY 277 FOR 2.75 MILES TO THE MARK ON THE RIGHT, 39.7' NORTH OF THE CENTERLINE OF THE HIGHWAY, THE MARK IS A STANDARD 2 1/2" CAP STAMPED "220034A 2017" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

AZ Mark Station	220034
Geodetic Azimuth	
Grid Azimuth	

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220035	Date Monumented 9/13/2017	Monumented By AHTD	County DREW	Route 83s	Job Number: 020475
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	504,214.4948	0.0020			
Easting (M)	417,171.5061	0.0020			
Elevation (M)*	66.705				
Northing (SFT)	1,654,243.7217				
Easting (SFT)	1,368,670.1829				
Elevation (SFT)*	218.849				

Convergence Angle	0	6	12.8142828
Scale Factor	0.999946230		
Elevation Adjust. Factor	0.9999895319		
Combined Adjust. Factor	0.9999357624		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	94	25.97	85.2
MK # 2	NORTH END 24" CONC CULVERT	80	9.97	32.7
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	ELEV. BASED ON DIGITAL LEVELS BY S5112 FOR JOB #020475 IN SEPT. 2017 BETWEEN NGS BM's C 351 & D 351 WHICH WERE MONUMENTED AND TIED BY S5111 IN 2017. **NOTE: LEVELED ELEVATIONS ON GPS POINTS WERE USED AS CONSTRAINTS IN THE FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARMO	
Ref Mon # 3 ARPB, MSGN	

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 83s AND STATE HIGHWAY 425, SOUTH OF MONTICELLO, GO SOUTH ON HIGHWAY 83s 1.1 MILES TO THE MARK ON THE LEFT, EAST 22' OF THE CENTERLINE OF THE HIGHWAY AND 37' NORTH OF THE CENTERLINE OF THE DRIVE TO THE SCHOOL. THE MARK IS A STANDARD 2" CAP STAMPED "2017 220035" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	220035A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220035A	Date Monumented 9/13/2017	Monumented By AHTD	County DREW	Route SCOGIN D	Job Number: 020475
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	504,770.1396	0.0020	
Easting (M)	417,153.2801	0.0020	
Elevation (M)*	70.055		
Northing (SFT)	1,656,066.6997		
Easting (SFT)	1,368,610.3865		
Elevation (SFT)*	229.837		

Convergence Angle	0	6	12.4403562
Scale Factor	0.999945585		
Elevation Adjust. Factor	0.9999890063		
Combined Adjust. Factor	0.9999345919		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/2 GUYS	200	22.65	74.3
MK # 2	EMERG SIREN	230	31.85	104.5
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARMO</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARPB, MSGN</td> </tr> </table>	Ref Mon # 1	ARCM	Ref Mon # 2	ARMO	Ref Mon # 3	ARPB, MSGN	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5112 FOR JOB #020475 IN SEPT. 2017 BETWEEN NGS BM's C 351 & D 351 WHICH WERE MONUMENTED AND TIED BY S5111 IN 2017. **NOTE: LEVELED ELEVATIONS ON GPS POINTS WERE USED AS CONSTRAINTS IN THE FINAL STATIC NETWORK ADJUSTMENT.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5112 FOR JOB #020475 IN SEPT. 2017 BETWEEN NGS BM's C 351 & D 351 WHICH WERE MONUMENTED AND TIED BY S5111 IN 2017. **NOTE: LEVELED ELEVATIONS ON GPS POINTS WERE USED AS CONSTRAINTS IN THE FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 1	ARCM								
Ref Mon # 2	ARMO								
Ref Mon # 3	ARPB, MSGN								
Comments									
ELEV. BASED ON DIGITAL LEVELS BY S5112 FOR JOB #020475 IN SEPT. 2017 BETWEEN NGS BM's C 351 & D 351 WHICH WERE MONUMENTED AND TIED BY S5111 IN 2017. **NOTE: LEVELED ELEVATIONS ON GPS POINTS WERE USED AS CONSTRAINTS IN THE FINAL STATIC NETWORK ADJUSTMENT.									

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 15 AND STATE HIGHWAY 425, SOUTH OF MONTICELLO, GO SOUTH ON HIGHWAY 15 0.9 MILES TO SCOGIN DRIVE AND TURN LEFT (SOUTH) AND GO 0.15 MILES TO THE MARK ON THE RIGHT, WEST 53.4' OF THE CENTERLINE OF THE ROAD AND 74' SOUTH OF THE CENTERLINE OF THE DRIVE TO THE HOSPITAL. THE MARK IS A STANDARD 2" CAP STAMPED "2017 220035A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	220035
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220036	Date Monumented 12/12/2017	Monumented By ARDOT	County DREW	Route 293	Job Number: 020678
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	514,056.2504	0.0010			
Easting (M)	440,037.4216	0.0010			
Elevation (M)*	55.583				
Northing (SFT)	1,686,532.8815				
Easting (SFT)	1,443,689.4407				
Elevation (SFT)*	182.360				

Convergence Angle	0	14	30.1583340		
Scale Factor	0.999935988				
Elevation Adjust. Factor	0.9999912772				
Combined Adjust. Factor	0.9999272658				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	CROSS TIE GATE POST	270		7.62	25.0
MK # 2	POWER POLE	150		37.80	124.0
MK # 3	POWER POLE	17		55.17	181.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM Ref Mon # 2 ARMO Ref Mon # 3 IULM,ARPB,MSGN	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS JEFFREY.</td> </tr> </table>	Comments	ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS JEFFREY.
Comments			
ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS JEFFREY.			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 278 AND STATE HIGHWAY 293, SOUTH OF SELMA. TRAVEL NORTH ALONG HIGHWAY 293, 1.1 MILES TO THE STATION ON THE LEFT. THE STATION IS 15 FEET WEST OF THE CENTERLINE OF HIGHWAY 293, AND 24 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220036 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.

AZ Mark Station	220036A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220036A	Date Monumented 12/12/2017	Monumented By ARDOT	County DREW	Route 293	Job Number: 020678
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	513,343.0967	0.0010			
Easting (M)	440,035.5417	0.0010			
Elevation (M)*	55.523				
Northing (SFT)	1,684,193.1431				
Easting (SFT)	1,443,683.2731				
Elevation (SFT)*	182.163				

Convergence Angle	0	14	30.0520991		
Scale Factor	0.999936656				
Elevation Adjust. Factor	0.9999912867				
Combined Adjust. Factor	0.9999279432				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 278 AND STATE HIGHWAY 293, SOUTH OF SELMA. TRAVEL NORTH ALONG HIGHWAY 293, 0.7 MILES TO THE STATION ON THE LEFT. THE STATION IS 15 FEET WEST OF THE CENTERLINE OF HIGHWAY 293, AND 25 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220036A 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	CROSS TIE POST		269	7.92	26.0
MK # 2	POWER POLE		97	17.98	59.0
MK # 3	NORTH END OF PLASTIC CULVERT		187	59.44	195.0

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARCM	<p>ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS JEFFREY.</p>
Ref Mon # 2	ARMO	
Ref Mon # 3	IULM,ARPB,MSGN	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220037	Date Monumented 12/12/2017	Monumented By ARDOT	County DREW	Route 277	Job Number: 020678
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	512,582.3595	0.0010			
Easting (M)	443,888.0057	0.0010			
Elevation (M)*	48.045				
Northing (SFT)	1,681,697.2911				
Easting (SFT)	1,456,322.5654				
Elevation (SFT)*	157.628				

Convergence Angle	0	15	53.6962384
Scale Factor	0.999937399		
Elevation Adjust. Factor	0.9999924602		
Combined Adjust. Factor	0.9999298597		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	IRRIGATION VALVE	79	24.69	81.0
MK # 2	POWER POLE	232	43.59	143.0
MK # 3	POWER POLE	129	73.15	240.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS E 352.
Ref Mon # 2 ARMO	
Ref Mon # 3 IULM,ARPB,MSGN	

Vertical Determined By: 3rd Order - Digital Levels

Elevation Datum: NAVD 88

Geoid Datum: GEOID12B

Latitude 33 40 50.9116368

Longitude 91 31 36.0298236

Ellipsoid Height (M): 22.087 0.0030

Geoid Height (M): -25.981 0.0030

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 277 AND STATE HIGHWAY 278, WEST OF TILLAR. TRAVEL EAST ALONG HIGHWAY 277, 1.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 22 FEET NORTH OF THE CENTERLINE OF HIGHWAY 277, AND 22 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220037 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.

AZ Mark Station	220037A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220037A	Date Monumented 12/12/2017	Monumented By ARDOT	County DREW	Route 277	Job Number: 020678
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	512,576.9418	0.0010	
Easting (M)	443,391.4926	0.0010	
Elevation (M)*	47.497		
Northing (SFT)	1,681,679.5166		
Easting (SFT)	1,454,693.5886		
Elevation (SFT)*	155.831		

Convergence Angle	0	15	42.9065112
Scale Factor	0.999937402		
Elevation Adjust. Factor	0.9999925462		
Combined Adjust. Factor	0.9999299487		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	163	17.68	58.0
MK # 2	UTILITY MARKER (PHONE)	200	18.29	60.0
MK # 3	WEST END OF NORTH HEADWALL	90	26.21	86.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS D 352.
Ref Mon # 2 ARMO	
Ref Mon # 3 IULM,ARPB,MSGN	

Vertical Determined By: 3rd Order - Digital Levels

Elevation Datum: NAVD 88

Geoid Datum: GEOID12B

Latitude 33 40 50.8098828

Longitude 91 31 55.3078416

Ellipsoid Height (M): 21.548 0.0030

Geoid Height (M): -25.972 0.0030

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 277 AND STATE HIGHWAY 278, WEST OF TILLAR. TRAVEL EAST ALONG HIGHWAY 277, 1.0 MILES TO THE STATION ON THE LEFT. THE STATION IS 17 FEET NORTH OF THE CENTERLINE OF HIGHWAY 277, AND 21 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220037A 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220038	Date Monumented 12/12/2017	Monumented By ARDOT	County DREW	Route NA	Job Number: 020678
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	511,048.0011 0.0010
Easting (M)	445,956.9382 0.0010
Elevation (M)*	47.485
Northing (SFT)	1,676,663.3169
Easting (SFT)	1,463,110.3881
Elevation (SFT)*	155.792

Convergence Angle	0 16 38.4925202
Scale Factor	0.999938918
Elevation Adjust. Factor	0.9999925480
Combined Adjust. Factor	0.9999314665

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 277 AND STATE HIGHWAY 278, WEST OF TILLAR. TRAVEL EAST ALONG HIGHWAY 277, 1.8 MILES TO A GATED GRAVEL ROAD LEADING SOUTH CONTINUE SOUTH ALONG GRAVEL ROAD 0.4 MILES CONTINUE EASTERLY ALONG GRAVEL ROAD 0.08 MILES CONTINUE SOUTHERY ALONG GRAVEL ROAD 0.3 MILES TO THE STATION. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220038 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 277 AND STATE HIGHWAY 278, WEST OF TILLAR. TRAVEL EAST ALONG HIGHWAY 277, 1.8 MILES TO A GATED GRAVEL ROAD LEADING SOUTH CONTINUE SOUTH ALONG GRAVEL ROAD 0.4 MILES CONTINUE EASTERLY ALONG GRAVEL ROAD 0.08 MILES CONTINUE SOUTHERY ALONG GRAVEL ROAD 0.3 MILES TO THE STATION. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220038 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	101	65.23	214.0
MK # 2	POWER POLE	352	76.20	250.0
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM</p> <p>Ref Mon # 2 ARMO</p> <p>Ref Mon # 3 IULM, ARPB, MSGN</p>	<p style="text-align: center;">Comments</p> <p>ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS F 352.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220038A	Date Monumented 12/12/2017	Monumented By ARDOT	County DREW	Route NA	Job Number: 020678
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	511,438.5895 0.0010
Easting (M)	445,979.2508 0.0010
Elevation (M)*	46.898
Northing (SFT)	1,677,944.7724
Easting (SFT)	1,463,183.5920
Elevation (SFT)*	153.864

Convergence Angle	0 16 39.0183935
Scale Factor	0.999938528
Elevation Adjust. Factor	0.9999926403
Combined Adjust. Factor	0.9999311687

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12B
Latitude	33 40 13.4652864
Longitude	91 30 15.0526764
Ellipsoid Height (M):	20.898 0.0030
Geoid Height (M):	-26.020 0.0030

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 277 AND STATE HIGHWAY 278, WEST OF TILLAR. TRAVEL EAST ALONG HIGHWAY 277, 1.8 MILES TO A GATED GRAVEL ROAD LEADING SOUTH CONTINUE SOUTH ALONG GRAVEL ROAD 0.4 MILES CONTINUE EASTERLY ALONG GRAVEL ROAD 0.08 MILES CONTINUE SOUTHERLY ALONG GRAVEL ROAD 0.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220038A 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	268	2.44	8.0
MK # 2				
MK # 3				

AZ Mark Station	220038
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS F 352.
Ref Mon # 2 ARMO	
Ref Mon # 3 IULM,ARPB,MSGN	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220039	Date Monumented 12/13/2017	Monumented By ARDOT	County DREW	Route NA	Job Number: 020678
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	511,289.8024 0.0010
Easting (M)	449,677.7108 0.0010
Elevation (M)*	46.010
Northing (SFT)	1,677,456.6267
Easting (SFT)	1,475,317.6228
Elevation (SFT)*	150.951

Convergence Angle	0 17 59.3586932
Scale Factor	0.999938695
Elevation Adjust. Factor	0.9999927796
Combined Adjust. Factor	0.9999314751

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12B
Latitude	33 40 8.0310756
Longitude	91 27 51.5085696
Ellipsoid Height (M):	19.949 0.0030
Geoid Height (M):	-26.091 0.0030

Location Description
<p>FROM THE INTERSECTION OF U.S. HWY 65 AND STATE HIGHWAY 1 IN McGEHEE TRAVEL WEST ALONG STATE HIGHWAY 1 (EAST ASH STREET) 0.5 MILES TO NORTH FIRST STREET, TURN LEFT AND CONTINUE SOUTH ALONG NORTH FIRST STREET 0.3 MILES TO STATE HIGHWAY 278, TURN RIGHT AND CONTINUE WEST ALONG STATE HIGHWAY 278 2.7 MILES TO BAYOU BARTHOLOMEW, TURN RIGHT ONTO FARM ROAD JUST BEFORE BIDGE, TRAVEL NORTH BETWEEN FARM BUILDINGS 0.5 MILES TURN LEFT AND CONTINUE WEST ALONG FARM ROAD 0.3 MILES, TURN RIGHT AND CONTINUE NORTH ALONG FARM ROAD 0.2 MILES, TURN LEFT AND CONTINUE WEST ALONG FARM ROAD 0.3 MILES, TURN RIGHT AND CONTINUE NORTH ALONG FARM ROAD 0.9 MILES, TURN LEFT AND CONTINUE WEST ALONG FARM ROAD 0.2 MILES CROSSING LEVEE, TURN RIGHT AND CONTINUE NORTH ALONG FARM ROAD 1.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 6 FEET NORTH OF A IRRIGATION WELL. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220039 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	IRRIGATION WELL	200	1.83	6.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM Ref Mon # 2 ARMO Ref Mon # 3 IULM,ARPB,MSGN	Comments ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS R 352.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220039A	Date Monumented 12/13/2017	Monumented By ARDOT	County DREW	Route NA	Job Number: 020678
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	511,713.2069	0.0010	
Easting (M)	450,176.1888	0.0010	
Elevation (M)*	46.404		
Northing (SFT)	1,678,845.7463		
Easting (SFT)	1,476,953.0461		
Elevation (SFT)*	152.245		

Convergence Angle	0	18	10.2376597
Scale Factor	0.999938278		
Elevation Adjust. Factor	0.9999927177		
Combined Adjust. Factor	0.9999309962		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>FROM THE INTERSECTION OF U.S. HWY 65 AND STATE HIGHWAY 1 IN McGEHEE TRAVEL WEST ALONG STATE HIGHWAY 1 (EAST ASH STREET) 0.5 MILES TO NORTH FIRST STREET, TURN LEFT AND CONTINUE SOUTH ALONG NORTH FIRST STREET 0.3 MILES TO STATE HIGHWAY 278, TURN RIGHT AND CONTINUE WEST ALONG STATE HIGHWAY 278 2.7 MILES TO BAYOU BARTHOLOMEW, TURN RIGHT ONTO FARM ROAD JUST BEFORE BIDGE, TRAVEL NORTH BETWEEN FARM BUILDINGS 0.5 MILES TURN LEFT AND CONTINUE WEST ALONG FARM ROAD 0.3 MILES, TURN RIGHT AND CONTINUE NORTH ALONG FARM ROAD 0.2 MILES, TURN LEFT AND CONTINUE WEST ALONG FARM ROAD 0.3 MILES, TURN RIGHT AND CONTINUE NORTH ALONG FARM ROAD 0.9 MILES, TURN LEFT AND CONTINUE WEST ALONG FARM ROAD 0.2 MILES CROSSING LEVEE, TURN RIGHT AND CONTINUE NORTH ALONG FARM ROAD 1.5 MILES, TURN RIGHT AND CONTINUE EAST 0.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS 9 FEET NORTH OF A IRRIGATION WELL. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220039A 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.</p>				

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	IRRIGATION WELL		162	2.74	9.0
MK # 2	POWER POLE		90	9.14	30.0
MK # 3	IRRIGATION WELL		228	11.28	37.0

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARCM	<p>ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS R 352.</p>
Ref Mon # 2	ARMO	
Ref Mon # 3	IULM,ARPB,MSGN	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220040	Date Monumented 12/18/2017	Monumented By AR DOT	County DREW	Route CR 75	Job Number: 020678
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	512,121.3594	0.0010	
Easting (M)	435,804.9739	0.0010	
Elevation (M)*	51.130		
Northing (SFT)	1,680,184.8266		
Easting (SFT)	1,429,803.4852		
Elevation (SFT)*	167.749		

Convergence Angle	0	12	58.0142087
Scale Factor	0.999937813		
Elevation Adjust. Factor	0.9999919761		
Combined Adjust. Factor	0.9999297896		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	POWER POLE WITH GUY				AZ Mark Station	220040A
MK # 2					Geodetic Azimuth	
MK # 3					Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	ELEV. ESTABLISHED BY S5111 IN MARCH 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS V 351.
Ref Mon # 2 ARMO	
Ref Mon # 3 IULM,ARPB,MSGN	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220040A	Date Monumented 12/18/2017	Monumented By ARDOT	County DREW	Route CR 75	Job Number: 020678
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	512,471.2078	0.0010	
Easting (M)	435,990.9411	0.0010	
Elevation (M)*	52.482		
Northing (SFT)	1,681,332.6209		
Easting (SFT)	1,430,413.6126		
Elevation (SFT)*	172.184		

Convergence Angle	0	13	2.0839147
Scale Factor	0.999937474		
Elevation Adjust. Factor	0.9999917640		
Combined Adjust. Factor	0.9999292385		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	CMP		211		3.72	12.2
MK # 2	POWER POLE					
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	ELEV. ESTABLISHED BY S5111 IN MARCH 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS V 351.
Ref Mon # 2 ARMO	
Ref Mon # 3 IULM,ARPB,MSGN	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12B
Latitude	33 40 48.3823560
Longitude	91 36 42.6497616
Ellipsoid Height (M):	26.655 0.0030
Geoid Height (M):	-25.855 0.0030

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 278 AND STATE HIGHWAY 35S, WEST OF SELMA, GO EAST ON HIGHWAY 278 9.0 MILES TO COUNTY ROAD 75 (N 16th SECTION ROAD) AND TURN LEFT (NORTH) AND GO 1.1 MILES TO THE MARK ON THE RIGHT, SOUTHEAST 15.5' OF THE C/L OF THE COUNTY ROAD AND NORTHWEST 10.0' OF A WITNESS POST. THE MARK IS A STANDARD 2" CAP STAMPED "2017 220040" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220041	Date Monumented 1/12/2021	Monumented By ARDOT	County DREW	Route SR-83	Job Number: 02X147
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	510,281.5040	0.0030	
Easting (M)	420,139.8643	0.0030	
Elevation (M)*			
Northing (SFT)	1,674,148.5677		
Easting (SFT)	1,378,408.8715		
Elevation (SFT)*			

Convergence Angle	0	7	17.5401856
Scale Factor	0.999939602		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	5X5 CONC MONUMENT	195	15.55	51.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	220041 TO REACH THE STATION MARK FROM THE JCT OF SR-35 & SR-83 IN MONTICELLO, GO NORTH ON SR-83 2.4 MILES TO STATION ON LEFT. 37.3' WEST OF C/L SR-83. 14.7' WEST OF NORTH END OF 18" CUS. 11.8' SOUTH OF A DRIVEWAY. THE MARK IS A STANDARD 2½" CAP STAMPED "220041 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.
Ref Mon # 2 ARMO	
Ref Mon # 3 ARPB, MSGN	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	33 39 38.8284732
Longitude	91 46 58.2464424
Ellipsoid Height (M):	54.177 0.0070
Geoid Height (M):	-25.748 0.0070

Location Description
220041 TO REACH THE STATION MARK FROM THE JCT OF SR-35 & SR-83 IN MONTICELLO, GO NORTH ON SR-83 2.4 MILES TO STATION ON LEFT. 37.3' WEST OF C/L SR-83. 14.7' WEST OF NORTH END OF 18" CUS. 11.8' SOUTH OF A DRIVEWAY. THE MARK IS A STANDARD 2½" CAP STAMPED "220041 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	220041A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220041A	Date Monumented 1/12/2021	Monumented By ARDOT	County DREW	Route SR-83	Job Number: 02X147
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	509,874.6320	0.0030	
Easting (M)	420,150.3825	0.0030	
Elevation (M)*			
Northing (SFT)	1,672,813.6885		
Easting (SFT)	1,378,443.3799		
Elevation (SFT)*			

Convergence Angle	0	7	17.7499353
Scale Factor	0.999940019		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SEWER MH	310	31.09	102.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	220041A TO REACH THE STATION MARK FROM THE JCT OF SR-35 & SR-83 IN MONTICELLO, GO NORTH ON SR-83 2.1 MILES TO STATION ON RIGHT. 15.4' EAST OF C/L SR-83. 14.7' 53' NORTH OF A DRIVEWAY ACROSS THE ROAD. THE MARK IS A STANDARD 2½" CAP STAMPED "220041A 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.
Ref Mon # 2 ARMO	
Ref Mon # 3 ARPB, MSGN	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	33 39 25.6211676
Longitude	91 46 57.8716824
Ellipsoid Height (M):	52.644 0.0070
Geoid Height (M):	-25.748 0.0070

Location Description
220041A TO REACH THE STATION MARK FROM THE JCT OF SR-35 & SR-83 IN MONTICELLO, GO NORTH ON SR-83 2.1 MILES TO STATION ON RIGHT. 15.4' EAST OF C/L SR-83. 14.7' 53' NORTH OF A DRIVEWAY ACROSS THE ROAD. THE MARK IS A STANDARD 2½" CAP STAMPED "220041A 2021" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	220041
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 22FEL OFF	Date Monumented 4/1/1994	Monumented By erial Data Servic	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 236,894.0995		Geoid Datum:
Easting (M) 290,743.7258		Latitude 36 27 44.7282468
Elevation (M)* 310.927		Longitude 93 13 7.9559112
Northing (SFT) 777,210.0581		Ellipsoid Height (M): 281.738
Easting (SFT) 953,881.7071		Geoid Height (M): -29.189
Elevation (SFT)* 1,020.100		

Convergence Angle 0 42 33.3477186	
Scale Factor 1.000053326	
Elevation Adjust. Factor 0.9999512078	
Combined Adjust. Factor 1.0000045312	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks			
Description	Azimuth	Distance	
		Meters Feet	
MK # 1			AZ Mark Station
MK # 2			Geodetic Azimuth
MK # 3			Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230001	Date Monumented 5/7/1992	Monumented By AHTD	County FAULKNER	Route 65	Job Number: R80064, 012227
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	104,210.3358	0.0020			
Easting (M)	365,029.8602	0.0020			
Elevation (M)*	206.741				

Northing (SFT)	341,896.7434				
Easting (SFT)	1,197,602.1330				
Elevation (SFT)*	678.281				

Convergence Angle	0	13	25.1935273		
Scale Factor	0.999950694				
Elevation Adjust. Factor	0.9999675567				
Combined Adjust. Factor	0.9999182523				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (1986)				
Latitude	35	16	19.3843092		
Longitude	92	23	3.7251276		
Ellipsoid Height:	178.220				
Grid Northing (Meters)	104,210.8661				
Grid Easting (Meters)	365,030.0830				

Location Description					
<p>FROM THE JCT. OF HWY. 65 AND HWY. 25 NORTH OF GREENBRIER, GO NORTH ON HWY. 65 0.65 MILES TO A SIDE ROAD ON THE RIGHT CALLED SHORT CUT ROAD, TURN RIGHT AND GO 0.15 MILES TO STATION ON RIGHT. THE STATION IS 25 FEET SOUTH OF THE CENTERLINE OF THE CO.RD. AND 2.0 FEET NORTH OF WITNESS POST.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN POWER POLE	32	20.90	68.6	
MK # 2	PUNCH POINT IN TOP OF STEEL POST	349	14.89	48.8	
MK # 3	NBC IN 8" CEDAR	310	16.71	54.8	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR, (SC)BENNETT	<p>OLD PN = 92230001 S5112 RE-OBSERVED IN 2015 TO UPDATE TO NAD 83 (2011). NEW GPS DERIVED ELEV. IS BASED ON STATIC GPS CONSTRAINTS FROM NGS 2ND ORDER BM's Y 68 & Q 68 AND FROM CORS ARLR & ARBT. *****Previous three wire elevation from job R80064 is 206.755m. There were no notes available.</p>
Ref Mon # 2 ARBT, (SC)CANTPORT	
Ref Mon # 3 P777, (SC)NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230001A	Date Monumented 5/7/1992	Monumented By AHTD	County FAULKNER	Route 65	Job Number: R80064, 012227, 080505
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	104,119.4964 0.0030
Easting (M)	364,788.0411 0.0030
Elevation (M)*	202.209

Northing (SFT)	341,598.7144	
Easting (SFT)	1,196,808.7648	
Elevation (SFT)*	663.414	

Convergence Angle	0	13	30.7531761
Scale Factor	0.999950772		
Elevation Adjust. Factor	0.9999682678		
Combined Adjust. Factor	0.9999190414		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)
Latitude	35 16 16.4060328
Longitude	92 23 13.2796788
Ellipsoid Height:	173.665
Grid Northing (Meters)	104,120.0321
Grid Easting (Meters)	364,788.2580

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN POWER POLE		173	19.48	63.9
MK # 2	NBC IN 12" RED OAK		257	31.64	103.8
MK # 3	NBC IN TOP OF FENCE POST		296	32.78	107.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR, (SC)BENNETT Ref Mon # 2 ARBT, (SC)CANTPORT Ref Mon # 3 NONE	OLD PN = 92230001A S5112 RE-OBSERVED IN 2015 TO UPDATE TO NAD 83 (2011). NEW GPS DERIVED ELEV. IS BASED ON STATIC GPS CONSTRAINTS FROM NGS 2ND ORDER BM's Y 68 & Q 68 AND FROM CORS ARLR & ARB *****Previous three wire elevation from job R80064 is 202.229m. There were no notes available. Job 080505 three wire based on NGS benchmarks 14 B and T 208.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230002	Date Monumented 5/7/1992	Monumented By AHTD	County FAULKNER	Route 65	Job Number: R80064
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 106,494.9451		Latitude 35 17 33.3016440
Easting (M) 363,483.5890		Longitude 92 24 5.2862076
Elevation (M)* 158.298		Ellipsoid Height (M): 129.735
		Geoid Height (M): -28.563

Northing (SFT) 349,392.1657	Easting (SFT) 1,192,529.0749	Location Description
Elevation (SFT)* 519.349		<p>FROM THE JCT. OF HWY. 65 AND HWY. 25 NORTH OF GREENBRIER, GO NORTH ON HWY. 65 2.48 MILES TO THE STATION ON THE RIGHT. THE STATION IS 41 FEET RIGHT OF THE CENTERLINE OF HWY. 65, 217 FEET SOUTH OF A PRIVATE DRIVE AND 2.0 FEET WEST OF A WITNESS POST.</p>
Convergence Angle 0 14 1.0107840		
Scale Factor 0.999948817		
Elevation Adjust. Factor 0.9999751585		
Combined Adjust. Factor 0.9999239768		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN COMBINATION POLE	129	5.90	19.3	AZ Mark Station 92230002A AZ. MK.
MK # 2	NBC IN 18" CEDAR	130	39.15	128.5	Geodetic Azimuth 335 00 47.35182
MK # 3	NBC IN COMBINATION POLE W/ARM	82	38.22	125.4	Grid Azimuth 335 14 48.35305

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 BENNETT</p> <p>Ref Mon # 2 CANTPORT</p> <p>Ref Mon # 3 NONE</p>	<p style="text-align: center;">Comments</p> <p>OLD PN = 92230002</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230002A	Date Monumented 5/7/1992	Monumented By AHTD	County FAULKNER	Route 65	Job Number: R80064
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 106,745.8641		Latitude 35 17 41.4285396
Easting (M) 363,367.8960		Longitude 92 24 9.9058032
Elevation (M)* 149.267		Ellipsoid Height (M): 120.710
Northing (SFT) 350,215.3891		Geoid Height (M): -28.565
Easting (SFT) 1,192,149.5055		
Elevation (SFT)* 489.720		

Convergence Angle 0 14 3.6989226	Location Description FROM THE JCT. OF HWY. 65 AND HWY. 25 NORTH OF GREENBRIER, GO NORTH ON HWY. 65 2.55 MILES TO THE STATION ON THE RIGHT. THE STATION IS 32 FEET RIGHT OF THE CENTERLINE OF HWY. 65, 204 FEET SOUTH OF THE ENTRANCE TO CONWAY ASPHALT AND 2.0 FEET WEST OF A WITNESS POST.
Scale Factor 0.999948619	
Elevation Adjust. Factor 0.9999765757	
Combined Adjust. Factor 0.9999251959	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN POWER POLE	33	11.78	38.7	AZ Mark Station 92230002
MK # 2	NBC IN 14" PINE	147	34.17	112.1	Geodetic Azimuth 155 00 44.64461
MK # 3	NBC IN TOP OF FENCE POST	266	22.86	75.0	Grid Azimuth 155 14 48.35305

Area Reference Monuments (used for Processing) Ref Mon # 1 BENNETT Ref Mon # 2 CANTPORT Ref Mon # 3 NONE	Comments OLD PN = 92230002A
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230003	Date Monumented 5/7/1992	Monumented By AHTD	County FAULKNER	Route 65	Job Number: R80064
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	108,174.1661	
Easting (M)	363,574.5340	
Elevation (M)*	159.325	
Northing (SFT)	354,901.4099	
Easting (SFT)	1,192,827.4503	
Elevation (SFT)*	522.719	

Convergence Angle	0	13	59.0735731
Scale Factor	0.999947515		
Elevation Adjust. Factor	0.9999749973		
Combined Adjust. Factor	0.9999225136		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 18" PINE	176	41.38	135.8
MK # 2	NBC IN 8" PINE	187	33.29	109.2
MK # 3	NBC IN POWER POLE	305	40.47	132.8

Area Reference Monuments (used for Processing) Ref Mon # 1 BENNETT Ref Mon # 2 CANTPORT Ref Mon # 3 NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>OLD PN = 92230003</td> </tr> </table>	Comments	OLD PN = 92230003
Comments			
OLD PN = 92230003			

Location Description	
FROM THE JCT. OF HWY. 65 AND HWY. 25 NORTH OF GREENBRIER, GO NORTH ON HWY. 65 3.55 MILES TO THE STATION ON THE RIGHT. THE STATION IS 47 FEET RIGHT OF THE CENTERLINE OF HWY. 65, 269 FEET SOUTH OF ENTRANCE NO. 1 TO THE OZARK TRADE CENTER AND 2.0 FEET WEST OF A WITNESS POST.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230003A	Date Monumented 5/7/1992	Monumented By AHTD	County FAULKNER	Route 65	Job Number: R80064
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	108,408.2491	
Easting (M)	363,294.1570	
Elevation (M)*	162.160	
Northing (SFT)	355,669.3973	
Easting (SFT)	1,191,907.5801	
Elevation (SFT)*	532.020	

Convergence Angle	0	14	5.5541897
Scale Factor	0.999947340		
Elevation Adjust. Factor	0.9999745525		
Combined Adjust. Factor	0.9999218938		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 18" PINE	172	33.06	108.5
MK # 2	NBC IN 6" REDBUD	224	23.96	78.6
MK # 3	NBC IN LIGHT POLE	240	34.12	111.9

Area Reference Monuments (used for Processing) Ref Mon # 1 BENNETT Ref Mon # 2 CANTPORT Ref Mon # 3 NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>OLD PN = 92230003A</td> </tr> </table>	Comments	OLD PN = 92230003A
Comments			
OLD PN = 92230003A			

Location Description
FROM THE JCT. OF HWY. 65 AND HWY. 25 NORTH OF GREENBRIER, GO NORTH ON HWY. 65 3.76 MILES TO THE STATION ON RIGHT. THE STATION IS 43 FEET RIGHT OF THE CENTERLINE OF HWY. 65, 289 FEET NORTHWEST OF ENTRANCE NO. 2 TO THE OZARK TRADE CENTER AND 2.0 FEET WEST OF A WITNESS POST.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230004	Date Monumented 5/7/1992	Monumented By AHTD	County FAULKNER	Route 65	Job Number: R80065,R80064
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 109,708.2231		Latitude 35 19 17.4688356
Easting (M) 362,718.2540		Longitude 92 24 36.1067292
Elevation (M)* 169.301		Ellipsoid Height (M): 140.723
Northing (SFT) 359,934.3953		Geoid Height (M): -28.578
Easting (SFT) 1,190,018.1383		
Elevation (SFT)* 555.448		

Convergence Angle 0 14 18.9452186	
Scale Factor 0.999946389	
Elevation Adjust. Factor 0.9999734319	
Combined Adjust. Factor 0.9999198223	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TELEPHONE POLE	221	12.65	41.5
MK # 2	NBC IN COMBINATION POLE	350	37.66	123.6
MK # 3	NBC IN 8" PERSIMMON TREE	31	41.11	134.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BENNETT 1940	THE ELEVATION ARRIVED AT BY USING TBM-17 FROM AHTD JOB NO. R80064. OLD PN = 92230004
Ref Mon # 2 MAY 1940	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230004A	Date Monumented 5/7/1992	Monumented By AHTD	County FAULKNER	Route 65	Job Number: R80065,R80064
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	109,416.1891	
Easting (M)	362,600.9030	
Elevation (M)*	166.781	
Northing (SFT)	358,976.2804	
Easting (SFT)	1,189,633.1293	
Elevation (SFT)*	547.181	

Convergence Angle	0	14	21.6207652
Scale Factor	0.999946600		
Elevation Adjust. Factor	0.9999738273		
Combined Adjust. Factor	0.9999204287		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT IN CONCRETE SIGN POST	14	61.17	200.7
MK # 2	NBC IN LIGHT POLE	328	25.76	84.5
MK # 3	NBC IN POWER POLE	30	70.82	232.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BENNETT 1940 Ref Mon # 2 MAY 1940 Ref Mon # 3 NONE	THE ELEVATION ARRIVED AT BY USING TBM-17 FROM AHTD JOB NO. R80064. OLD PN = 92230004A

Location Description			
FROM THE JCT. OF HWY. 65 AND HWY. 25 JUST NORTH OF THE SMALL VILLAGE OF GREENBRIER, GO NORTH ON HWY. 65 FOR 7.37 KM (4.58 MILES) TO THE STATION ON THE LEFT. THE STATION IS 12.50 METERS WEST OF THE CENTER OF HWY. 65, 68.88 METERS SOUTH OF "ZION GROVE LANE" AND 0.61 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "92230004A AZ. MK." SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230005	Date Monumented 11/23/1994	Monumented By AHTD	County FAULKNER	Route 65	Job Number: R80065
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	113,714.5471	
Easting (M)	362,384.8040	
Elevation (M)*	202.336	
Northing (SFT)	373,078.4766	
Easting (SFT)	1,188,924.1445	
Elevation (SFT)*	663.831	

Convergence Angle	0	14	27.0155651
Scale Factor	0.999943715		
Elevation Adjust. Factor	0.9999682479		
Combined Adjust. Factor	0.9999119647		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	270	5.60	18.4
MK # 2	SOUTHEAST CORNER OF BUILDING	314	15.25	50.0
MK # 3	COMBINATION POLE	190	24.46	80.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BENNETT 1940 Ref Mon # 2 MAY 1940 Ref Mon # 3 NONE	THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. C-209.

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 21 27.4267044
Longitude	92 24 49.9757076
Ellipsoid Height (M):	173.756
Geoid Height (M):	-28.580

Location Description
FROM THE POST OFFICE IN THE SMALL TOWN OF DAMASCUS, GO SOUTH ON HWY. 65 FOR 1.336 KM (0.83 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 7.80 METERS WEST OF THE CENTER OF HWY. 65, 8.70 METERS SOUTH OF A GRAVEL DRIVEWAY AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "230005" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230005A	Date Monumented 11/23/1994	Monumented By AHTD	County FAULKNER	Route 65	Job Number: R80065
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 114,399.2461		Latitude 35 21 49.6674432
Easting (M) 362,551.2660		Longitude 92 24 43.4955672
Elevation (M)* 206.298		Ellipsoid Height (M): 177.721
		Geoid Height (M): -28.577

Northing (SFT) 375,324.8599		
Easting (SFT) 1,189,470.2785		
Elevation (SFT)* 676.829		

Convergence Angle	0	14	23.2447770
Scale Factor	0.999943297		
Elevation Adjust. Factor	0.9999676262		
Combined Adjust. Factor	0.9999109250		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

FROM THE POST OFFICE IN THE SMALL TOWN OF DAMASCUS, GO SOUTH ON HWY. 65 FOR 0.628 KM (0.39 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 22.10 METERS NORTH OF A GRAVEL DRIVEWAY, 14.35 METERS WEST OF THE CENTER OF HWY. 65 AND 0.50 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "230005A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	CEDAR FENCE POST		350	1.25	4.1
MK # 2	CONCRETE RIGHT-OF-WAY MARKER		207	14.37	47.1
MK # 3	18" METAL PIPE		155	4.72	15.5

AZ Mark Station	230005
Geodetic Azimuth	193 25 28.80328
Grid Azimuth	193 39 52.05831

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BENNETT 1940	THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. C-209.
Ref Mon # 2 MAY 1940	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230006	Date Monumented 11/29/1995	Monumented By AHTD	County FAULKNER	Route 25	Job Number: 001657
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	107,643.9981	
Easting (M)	367,025.1500	
Elevation (M)*	196.548	
Northing (SFT)	353,162.0171	
Easting (SFT)	1,204,148.3463	
Elevation (SFT)*	644.841	

Convergence Angle	0	12	39.5431922
Scale Factor	0.999947908		
Elevation Adjust. Factor	0.9999691562		
Combined Adjust. Factor	0.9999170658		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	218	2.00	6.6
MK # 2	EAST CORNER OF A BARN	312	13.62	44.7
MK # 3	14" (0.35 M) PERSIMMON TREE	354	24.37	80.0

Area Reference Monuments (used for Processing) Ref Mon # 1 MAY 1940 Ref Mon # 2 92230001 Ref Mon # 3 120009	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ELEVATION BY 3-WIRE NGS Point M 68 *NOTE: REPORTED DESTROYED BY S5112 IN APRIL OF 2015 & REPLACED WITH NEW GPS MONUMENT # 230036 </td> </tr> </table>	Comments	ELEVATION BY 3-WIRE NGS Point M 68 *NOTE: REPORTED DESTROYED BY S5112 IN APRIL OF 2015 & REPLACED WITH NEW GPS MONUMENT # 230036
Comments			
ELEVATION BY 3-WIRE NGS Point M 68 *NOTE: REPORTED DESTROYED BY S5112 IN APRIL OF 2015 & REPLACED WITH NEW GPS MONUMENT # 230036			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 310 IN THE SMALL TOWN OF GUY GO SOUTHERLY ON HWY-25 FOR 3.70 KM. (2.30 MI.) TO THE STATION ON THE RIGHT. 12.4 METERS NORTHWEST OF THE CENTER OF HWY-25, 9.40 METERS NORTHEAST OF A GRAVEL DRIVEWAY TO SOME BARNs AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230006 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 18 11.0338848
Longitude	92 21 45.2832624
Ellipsoid Height (M):	168.032
Geoid Height (M):	-28.516

AZ Mark Station	230006A
Geodetic Azimuth	59 11 26.41036
Grid Azimuth	59 24 05.91755

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230006A	Date Monumented 11/29/1995	Monumented By AHTD	County FAULKNER	Route 25	Job Number: 001657, 012227
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	107,913.9686 0.0030
Easting (M)	367,482.3373 0.0030
Elevation (M)*	197.538

Northing (SFT)	354,047.7453	
Easting (SFT)	1,205,648.3016	
Elevation (SFT)*	648.089	

Convergence Angle	0	12	29.0350066
Scale Factor	0.999947701		
Elevation Adjust. Factor	0.9999690008		
Combined Adjust. Factor	0.9999167034		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)
Latitude	35 18 19.8651420
Longitude	92 21 27.2170008
Ellipsoid Height:	169.027
Grid Northing (Meters)	107,914.4781
Grid Easting (Meters)	367,482.5370

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 310 IN THE SMALL TOWN OF GUY GO SOUTHERLY ON HWY-25 FOR 3.14 KM. (1.95 MI.) TO THE STATION ON THE LEFT. 14.39 METERS SOUTHWEST OF A PAVED DRIVEWAY, 11.53 METERS SOUTHEAST OF THE CENTER OF HWY-25 AND 0.76 METERS NORTHWEST OF A WITNESS POST SET IN A BARBED WIRE FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230006A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RAIL ROAD TIE FENCE CORNER POST	59	5.87	19.3
MK # 2	POWER POLE	222	5.48	18.0
MK # 3	POWER POLE	323	23.28	76.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR, (SC) MAY 1940	ELEVATION BY 3-WIRE NGS Point M 68 *NOTE: IN 2015 S5112 FOUND THAT M 68 HAD BEEN DESTROYED FROM PREVIOUS HWY. WIDENING JOB. *NOTE: FOR JOB # 012227 S5112 YIELDED TO THE ORIGINAL ELEV. THAT WAS RAN FROM M 68 & CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.
Ref Mon # 2 ARBT, (SC)92230001	
Ref Mon # 3 P777, (SC)120009	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230007	Date Monumented 11/29/1995	Monumented By AHTD	County FAULKNER	Route 25	Job Number: 001657
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	110,103.5761	
Easting (M)	370,625.2900	
Elevation (M)*	209.719	
Northing (SFT)	361,231.4826	
Easting (SFT)	1,215,959.8056	
Elevation (SFT)*	688.053	

Convergence Angle	0	11	16.8040387
Scale Factor	0.999946087		
Elevation Adjust. Factor	0.9999670893		
Combined Adjust. Factor	0.9999131781		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF A MANHOLE	302	14.20	46.6
MK # 2	CONCRETE RIGHT OF WAY MONUMENT	356	0.70	2.3
MK # 3	GUY POLE	78	7.24	23.8

Area Reference Monuments (used for Processing) Ref Mon # 1 MAY 1940 Ref Mon # 2 92230001 Ref Mon # 3 120009	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 19 31.2530700
Longitude	92 19 23.0951244
Ellipsoid Height (M):	181.245
Geoid Height (M):	-28.474

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 310 IN THE SMALL TOWN OF GUY GO NORTHERLY ON HWY-25 FOR 1.05 KM. (0.65 MI.) TO THE "GUY-PERKINS SCHOOL" ON THE RIGHT AND THE STATION ACROSS THE HIGHWAY ON THE LEFT. 11.45 METERS NORTH OF THE CENTER OF HWY-25 AND 0.51 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230007 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	230007A
Geodetic Azimuth	112 18 14.68644
Grid Azimuth	112 29 31.46018

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230007A	Date Monumented 11/29/1995	Monumented By AHTD	County FAULKNER	Route 25	Job Number: 001657
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	109,931.9891	
Easting (M)	371,039.7000	
Elevation (M)*	212.328	
Northing (SFT)	360,668.5342	
Easting (SFT)	1,217,319.4158	
Elevation (SFT)*	696.613	

Convergence Angle	0	11	7.2431593
Scale Factor	0.999946207		
Elevation Adjust. Factor	0.9999666799		
Combined Adjust. Factor	0.9999128887		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CENTER OF MANHOLE	328	7.02	23.0	AZ Mark Station 230007
MK # 2	TELEPHONE JUNCTION BOX	294	4.47	14.7	Geodetic Azimuth 292 18 24.18666
MK # 3	COMBINATION POLE	220	25.44	83.5	Grid Azimuth 292 29 31.46018

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MAY 1940	
Ref Mon # 2 92230001	
Ref Mon # 3 120009	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230008	Date Monumented 11/29/1995	Monumented By AHTD	County FAULKNER	Route 25	Job Number: 001657, 012227
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	112,408.5316	0.0030			
Easting (M)	377,669.6754	0.0030			
Elevation (M)*	230.498				

Northing (SFT)	368,793.6574				
Easting (SFT)	1,239,071.2600				
Elevation (SFT)*	756.226				

Convergence Angle	0	8	34.6321091		
Scale Factor	0.999944510				
Elevation Adjust. Factor	0.9999638286				
Combined Adjust. Factor	0.9999083406				

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)				
Latitude	35	20	46.7241108		
Longitude	92	14	44.3950188		
Ellipsoid Height:	202.089				
Grid Northing (Meters)	112,409.0200				
Grid Easting (Meters)	377,669.8250				

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 356 IN QUITMAN GO SOUTHERLY ON HWY-25 FOR 5.31 KM. (3.30 MI.) TO THE STATION ON THE LEFT. 12.07 METERS SOUTHEAST OF THE CENTER OF HWY-25 AND 2.0 METERS NORTHWEST OF A WITNESS POST SET BESIDE A COMBINATION POLE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230008 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	250	2.00	6.6
MK # 2	GAS METER	202	15.12	49.6
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR, (SC) MAY 1940	PREVIOUS ELEVATION (756.2091 SURV. FT.) BY 3-WIRE USING NGS Point R 68 IN 2105 S5112 SEARCH FOUND THAT R 68 HAD BEEN DESTROYED FROM PREVIOUS HWY. WIDENING. UPDATED ELEV. BASED ON DIGITAL LEVELS BY S5112 IN 2015 FROM 2ND ORDER NGS BM'S Q 68 & N 208 FOR JOB # 012227 AND CHECKED
Ref Mon # 2 ARBT, (SC)92230001	
Ref Mon # 3 P777, (SC)120009	

AZ Mark Station	230008A
Geodetic Azimuth	209 57 53.57636
Grid Azimuth	210 06 28.22840

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230016A	Date Monumented 3/24/2000	Monumented By AHTD	County FAULKNER	Route 285	Job Number: 008570
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 97,215.8793		Latitude 35 12 31.4819712
Easting (M) 358,413.9076		Longitude 92 27 24.2333208
Elevation (M)* 96.496		Ellipsoid Height (M): 68.455
		Geoid Height (M): -27.979

Northing (SFT) 318,949.0973		
Easting (SFT) 1,175,896.2952		
Elevation (SFT)* 316.588		

Convergence Angle 0 15 56.7779357		
Scale Factor 0.999957280		
Elevation Adjust. Factor 0.9999848568		
Combined Adjust. Factor 0.9999421375		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 285 AND STATE HIGHWAY 25, LOCATED IN WOOSTER, GO NORTH ON STATE HIGHWAY 285 FOR 0.72 KM (0.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.75 METERS WEST OF THE CENTER OF STATE HIGHWAY 289, 1.00 METERS EAST OF A FENCE LINE AND 0.93 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230016A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 498.911 METERS.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station 230016	
Geodetic Azimuth 179 11 23.56689	
Grid Azimuth 179 27 20.34408	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 EARNHART HALE	Elevation by 3 Wire from NGS point D 18
Ref Mon # 2 PJTC CAMPUS	
Ref Mon # 3 230011	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230017	Date Monumented 3/24/2000	Monumented By AHTD	County FAULKNER	Route 285	Job Number: 008570,080426
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	101,837.7904		
Easting (M)	356,639.9503		
Elevation (M)*	95.645		
Northing (SFT)	334,112.8173		
Easting (SFT)	1,170,076.2369		
Elevation (SFT)*	313.796		

Convergence Angle	0	16	38.1055895
Scale Factor	0.999952817		
Elevation Adjust. Factor	0.9999849904		
Combined Adjust. Factor	0.9999378081		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	15	1.1883132
Longitude	92	28	35.2556544
Ellipsoid Height:	67.649		
Grid Northing (Meters)	101,837.7793		
Grid Easting (Meters)	356,639.9425		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END LINE BRACE POST	34	2.65	8.7
MK # 2	MIDDLE END LINE BRACE POST	90	1.36	4.5
MK # 3	SOUTH END LINE BRACE POST	149	2.68	8.8

Area Reference Monuments (used for Processing) Ref Mon # 1 EARNHART HALE Ref Mon # 2 PJTC CAMPUS Ref Mon # 3 230011	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation by 3 Wire from NGS point D 18</td> </tr> </table>	Comments	Elevation by 3 Wire from NGS point D 18
Comments			
Elevation by 3 Wire from NGS point D 18			

Vertical Determined By: 3rd Order - Digital Level

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 15 1.1886732

Longitude 92 28 35.2553448

Ellipsoid Height (M): 67.649

Geoid Height (M): -28.015

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 285 AND STATE HIGHWAY 25, LOCATED IN WOOSTER, GO NORTH ON STATE HIGHWAY 285 FOR 6.36 KM (3.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.40 METERS EAST OF THE CENTER OF STATE HIGHWAY 285 AND 1.25 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230017 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 556.378 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230017A	Date Monumented 3/24/2000	Monumented By AHTD	County FAULKNER	Route 285	Job Number: 008570,080426
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	101,281.5278		
Easting (M)	356,630.7374		
Elevation (M)*	93.691		
Northing (SFT)	332,287.8125		
Easting (SFT)	1,170,046.0110		
Elevation (SFT)*	307.386		

Convergence Angle	0	16	38.2556888
Scale Factor	0.999953328		
Elevation Adjust. Factor	0.9999852970		
Combined Adjust. Factor	0.9999386257		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	14	43.1360844
Longitude	92	28	35.5132560
Ellipsoid Height:	65.589		
Grid Northing (Meters)	101,281.5082		
Grid Easting (Meters)	356,630.7382		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	SOUTH END LINE BRACE POST		11	11.20	36.7
MK # 2	NONE				
MK # 3	NONE				

Area Reference Monuments (used for Processing) Ref Mon # 1 EARNHART HALE Ref Mon # 2 PJTC CAMPUS Ref Mon # 3 230011	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation by 3 Wire from NGS point D 18</td> </tr> </table>	Comments	Elevation by 3 Wire from NGS point D 18
Comments			
Elevation by 3 Wire from NGS point D 18			

Vertical Determined By: 3rd Order - Digital Level

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 14 43.1367180

Longitude 92 28 35.5132920

Ellipsoid Height (M): 65.589

Geoid Height (M): -28.017

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 285 AND STATE HIGHWAY 25, LOCATED IN WOOSTER, GO NORTH ON STATE HIGHWAY 285 FOR 5.79 KM (3.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.40 METERS EAST OF THE CENTER OF STATE HIGHWAY 285 AND 1.00 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230017A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 556.378 METERS.

AZ Mark Station	230017
Geodetic Azimuth	0 40 14.390339
Grid Azimuth	0 56 52.645390

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230019	Date Monumented 12/19/2001	Monumented By AHTD	County FAULKNER	Route I 40	Job Number: 10,8640_5,012119,080437,08
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	69,587.4521	
Easting (M)	361,482.9580	
Elevation (M)*	87.587	
Northing (SFT)	228,304.8324	
Easting (SFT)	1,185,965.3380	
Elevation (SFT)*	287.359	

Convergence Angle	0	14	43.4461771
Scale Factor	0.999994900		
Elevation Adjust. Factor	0.9999862549		
Combined Adjust. Factor	0.9999811550		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	98	19.00	62.3
MK # 2	CENTER OF CONCRETE DRAIN UNDER I 40	214	20.95	68.7
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ROCKPORT Ref Mon # 2 SEARPORT Ref Mon # 3 AHTD LITTLE ROCK	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.</td> </tr> </table>	Comments	ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.
Comments			
ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.			

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 89 SOUTH LOCATED IN MAYFLOWER, GO EAST ON STATE HIGHWAY 89 SOUTH FOR 0.402 KM (0.25 MI) TO INTERSTATE DRIVE ON THE RIGHT, TURN RIGHT (SOUTH) ON INTERSTATE DRIVE AND GO SOUTH FOR 1.352 KM (0.84 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.65 METERS EAST OF THE EDGE OF THE PAVEMENT OF THE I 40 WEST BOUND LANES, 6.20 METERS WEST OF THE CENTER OF INTERSTATE DRIVE, AND 1.00 METER WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "230019 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 754.378 METERS. ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.	

AZ Mark Station	230019A
Geodetic Azimuth	182 21 53
Grid Azimuth	182 36 36

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230019A	Date Monumented 12/19/2001	Monumented By AHTD	County FAULKNER	Route I 40	Job Number: 10,8640_5,012119,080437,08
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	68,833.8700	
Easting (M)	361,448.6050	
Elevation (M)*	84.869	
Northing (SFT)	225,832.4552	
Easting (SFT)	1,185,852.6316	
Elevation (SFT)*	278.442	

Convergence Angle	0	14	44.1600158
Scale Factor	0.999996189		
Elevation Adjust. Factor	0.9999866814		
Combined Adjust. Factor	0.9999828705		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	34	27.90	91.5
MK # 2	CENTER OF CONCRETE DRAIN UNDER I 40	305	12.90	42.3
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ROCKPORT Ref Mon # 2 SEARPORT Ref Mon # 3 AHTD LITTLE ROCK	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.</td> </tr> </table>	Comments	ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.
Comments			
ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.			

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 89 SOUTH LOCATED IN MAYFLOWER, GO EAST ON STATE HIGHWAY 89 SOUTH FOR 0.402 KM (0.25 MI) TO INTERSTATE DRIVE ON THE RIGHT, TURN RIGHT (SOUTH) ON INTERSTATE DRIVE AND GO SOUTH FOR 2.092 KM (1.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.00 METERS EAST OF THE EDGE OF THE PAVEMENT OF THE I 40 WEST BOUND LANES, 6.55 METERS WEST OF THE CENTER OF INTERSTATE DRIVE, AND 1.53 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "230019A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 754.378 METERS. ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.	

AZ Mark Station	230019
Geodetic Azimuth	2 21 52
Grid Azimuth	2 36 36

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230020	Date Monumented 11/17/2006	Monumented By AHTD	County Faulkner	Route 65B	Job Number: 12119,080388,080496, 08063
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	82,232.8872 0.0040
Easting (M)	360,485.0141 0.0040
Elevation (M)*	91.003

Northing (SFT)	269,792.3974
Easting (SFT)	1,182,691.2504
Elevation (SFT)*	298.567

Convergence Angle	0 15	7.6114693
Scale Factor	0.999975362	
Elevation Adjust. Factor	0.9999857188	
Combined Adjust. Factor	0.9999610812	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude	35 4	25.5898236	
Longitude	92 25	59.7406872	
Ellipsoid Height:	63.239		
Grid Northing (Meters)	82,232.8741		
Grid Easting (Meters)	360,485.0020		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RR milepost #372	305	4.40	14.4
MK # 2	South gate post	223	22.80	74.8
MK # 3	Underground cable marker	5	4.45	14.6

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARLR Ref Mon # 3 ARRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> 3-Wire Levels were ran by S5103 in Job 080273 in September 2006 from NGS BM D291/B291. *****OLD REFERENCE MONUMENTS FOR SUPERCEDED POSITION NAD 83 (1997) ARE PJTC, BUTLER AND LROC. THE OLD GEOID HT. WAS - 27.765m </td> </tr> </table>	Comments	3-Wire Levels were ran by S5103 in Job 080273 in September 2006 from NGS BM D291/B291. *****OLD REFERENCE MONUMENTS FOR SUPERCEDED POSITION NAD 83 (1997) ARE PJTC, BUTLER AND LROC. THE OLD GEOID HT. WAS - 27.765m
Comments			
3-Wire Levels were ran by S5103 in Job 080273 in September 2006 from NGS BM D291/B291. *****OLD REFERENCE MONUMENTS FOR SUPERCEDED POSITION NAD 83 (1997) ARE PJTC, BUTLER AND LROC. THE OLD GEOID HT. WAS - 27.765m			

Location Description
To reach the station from the junction of highways 365-60 and 65B in Conway go north on hwy-65B for 0.50 miles to the station on the left 12.8 meters west-southwest of the center of hwy-65B, 6.30 meters north of an abandoned R/R crossing, 5.10 meters east-northeast of the east rail and 0.50 meters east-northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "230020 2004" set on top of a 5/8 inch by 2.03 foot long rebar and is just below the surface.

AZ Mark Station	230011A
Geodetic Azimuth	159 50 01
Grid Azimuth	160 05 09

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230021	Date Monumented 3/14/2005	Monumented By AHTD	County FAULKNER	Route 64	Job Number: 080149
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 81,081.3650		Latitude 35 3 50.0173020
Easting (M) 376,157.4890		Longitude 92 15 40.9976208
Elevation (M)* 105.351		Ellipsoid Height (M): 77.859
Northing (SFT) 266,014.4450		Geoid Height (M): -27.492
Easting (SFT) 1,234,110.0285		
Elevation (SFT)* 345.639		

Convergence Angle	0	9	7.5656950
Scale Factor	0.999976901		
Elevation Adjust. Factor	0.9999834673		
Combined Adjust. Factor	0.9999603686		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOOD CORNER POST	2.0	10.25	33.6
MK # 2	COMBINATION POLE	30	30.15	98.9
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 230013	ELEVATIONS OBTAINED BY RUNNING 3 WIRE LEVELS FROM TBM-905 ON JOB 001848 BY CREW S5103 3/15/05.
Ref Mon # 2 230014	
Ref Mon # 3 230015	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230021A	Date Monumented 3/14/2005	Monumented By AHTD	County FAULKNER	Route 64	Job Number: 080149
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 80,689.0981		Latitude 35 3 37.2890448
Easting (M) 376,167.2780		Longitude 92 15 40.5702000
Elevation (M)* 101.924		Ellipsoid Height (M): 74.440
		Geoid Height (M): -27.484

Northing (SFT) 264,727.4827		
Easting (SFT) 1,234,142.1446		
Elevation (SFT)* 334.396		

Convergence Angle 0 9 7.3169792		
Scale Factor 0.999977459		
Elevation Adjust. Factor 0.9999840051		
Combined Adjust. Factor 0.9999614644		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 64, EAST OF CONWAY, GO EAST ON HIGHWAY 64 2.7 MILES TO BERYL ROAD ON THE RIGHT, TURN RIGHT ON BERYL ROAD AND GO 1.65 MILES TO THE STATION MARK ON THE LEFT, 8.15 METERS EAST OF THE CENTERLINE OF THE ROAD AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230021A 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.				

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	TRANSMISSION LINE POLE	263	18.60	61.0	AZ Mark Station 230021
MK # 2	POWER POLE WITH GUY	300	19.75	64.8	Geodetic Azimuth 358 25 07
MK # 3					Grid Azimuth 358 34 14

Area Reference Monuments (used for Processing) Ref Mon # 1 230013 Ref Mon # 2 230014 Ref Mon # 3 230015	Comments ELEVATIONS OBTAINED BY RUNNING 3 WIRE LEVELS FROM TBM-905 ON JOB 001848 BY CREW S5103 3/15/05.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230022	Date Monumented 3/14/2005	Monumented By AHTD	County FAULKNER	Route 107	Job Number: 080149
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	81,124.9000	
Easting (M)	382,414.0010	
Elevation (M)*	89.075	
Northing (SFT)	266,157.2761	
Easting (SFT)	1,254,636.6016	
Elevation (SFT)*	292.240	

Convergence Angle	0	6	43.8814024
Scale Factor	0.999976819		
Elevation Adjust. Factor	0.9999860214		
Combined Adjust. Factor	0.9999628407		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	89	21.50	70.5
MK # 2	GAS METER	269	38.20	125.3
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>230013</td> </tr> <tr> <td>Ref Mon # 2</td> <td>230014</td> </tr> <tr> <td>Ref Mon # 3</td> <td>230015</td> </tr> </table>	Ref Mon # 1	230013	Ref Mon # 2	230014	Ref Mon # 3	230015	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATIONS OBTAINED BY RUNNING 3 WIRE LEVELS FROM TBM-905 ON JOB 001848 BY CREW S5103 3/15/05.</td> </tr> </table>	Comments	ELEVATIONS OBTAINED BY RUNNING 3 WIRE LEVELS FROM TBM-905 ON JOB 001848 BY CREW S5103 3/15/05.
Ref Mon # 1	230013								
Ref Mon # 2	230014								
Ref Mon # 3	230015								
Comments									
ELEVATIONS OBTAINED BY RUNNING 3 WIRE LEVELS FROM TBM-905 ON JOB 001848 BY CREW S5103 3/15/05.									

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 319 AND STATE HIGHWAY 107, LOCATED SOUTH OF VILONIA, GO NORTH ON U.S. HIGHWAY 107 FOR 0.5 METERS TO GREEN MEADOWS ROAD ON THE LEFT, TURN LEFT AND GO 0.05 MILES TO THE STATION MARK ON THE LEFT, SOUTH 6.80 METERS OF THE CENTERLINE OF THE ROAD AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED 230022 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230022A	Date Monumented 3/14/2005	Monumented By AHTD	County FAULKNER	Route 107	Job Number: 080149
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 80,605.5791		Latitude 35 3 35.0579448
Easting (M) 382,599.4280		Longitude 92 11 26.7165744
Elevation (M)* 90.976		Ellipsoid Height (M): 63.563
		Geoid Height (M): -27.408

Northing (SFT) 264,453.4708		
Easting (SFT) 1,255,244.9567		
Elevation (SFT)* 298.477		

Convergence Angle	0	6	39.5997759
Scale Factor	0.999977557		
Elevation Adjust. Factor	0.9999857231		
Combined Adjust. Factor	0.9999632804		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

 TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 319 AND STATE HIGHWAY 107, LOCATED SOUTH OF VILONIA, GO NORTH ON U.S. HIGHWAY 107 FOR 0.1 METERS TO THE STATION MARK ON THE RIGHT, EAST 9.10 METERS OF THE CENTERLINE OF THE ROAD AND WEST 2.75 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED 230022A 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description	Azimuth	Distance			
		Meters	Feet		
MK # 1 POWER POLE WITH GUY	147	12.60	41.3	AZ Mark Station	230022
MK # 2				Geodetic Azimuth	340 14 22
MK # 3				Grid Azimuth	340 21 02

Area Reference Monuments (used for Processing) Ref Mon # 1 230013 Ref Mon # 2 230014 Ref Mon # 3 230015	Comments ELEVATIONS OBTAINED BY RUNNING 3 WIRE LEVELS FROM TBM-905 ON JOB 001848 BY CREW S5103 3/15/05.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230023	Date Monumented 3/14/2005	Monumented By AHTD	County FAULKNER	Route 64	Job Number: 080149
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	82,948.1211	
Easting (M)	373,261.5730	
Elevation (M)*		
Northing (SFT)	272,138.9606	
Easting (SFT)	1,224,609.0108	
Elevation (SFT)*		

Convergence Angle	0	10	14.2004194
Scale Factor	0.999974308		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	AHTD RIGHT OF WAY MARKER	241	18.15	59.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	230013
Ref Mon # 2	230014
Ref Mon # 3	230015

Comments

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 4 50.3290416

Longitude 92 17 35.5101216

Ellipsoid Height (M): 65.648

Geoid Height (M): -27.569

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 36, LOCATED ABOUT 8.05 KM (5.00 MI) WEST OF VILONIA, GO EAST ON U.S. HIGHWAY 64 FOR 1.13 KM (0.70 MI) TO THE STATION ON THE LEFT. THE STATION IS EAST 33 .20 METERS OF LIBERTY LOOP, 19.40 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64, 8.85 METERS WEST OF A ASPH DRIVE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230023 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230024	Date Monumented 12/3/2008	Monumented By AHTD	County FAULKNER	Route 36	Job Number: 080339
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	91,492.6611				
Easting (M)	379,557.9310				
Elevation (M)*	96.264				
Northing (SFT)	300,172.1723				
Easting (SFT)	1,245,266.3120				
Elevation (SFT)*	315.826				

Convergence Angle	0	7	50.0164873
Scale Factor	0.999963458		
Elevation Adjust. Factor	0.9999848933		
Combined Adjust. Factor	0.9999483518		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	356	10.21	33.5
MK # 2	COMBINATION POLE W/GUY	56	30.48	100.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	CREW S5102 RAN 3 WIRE DIGITAL LEVELS FROM Y 209 ON 12/5/08. M 208 WAS ALSO TIED BUT NOT USED IN CONTROL.
Ref Mon # 2 ARBT	
Ref Mon # 3 ARHR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230024A	Date Monumented 12/3/2008	Monumented By AHTD	County FAULKNER	Route 107	Job Number: 080339
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	92,041.1951	
Easting (M)	379,700.7760	
Elevation (M)*	93.661	
Northing (SFT)	301,971.8209	
Easting (SFT)	1,245,734.9626	
Elevation (SFT)*	307.287	

Convergence Angle	0	7	46.7606604
Scale Factor	0.999962823		
Elevation Adjust. Factor	0.9999853017		
Combined Adjust. Factor	0.9999481253		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	109	23.38	76.7
MK # 2	WATER METER	20	16.00	52.5
MK # 3	S.E. CORNER OF WOOD FRAME HOUSE	350	23.01	75.5

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARBT Ref Mon # 3 ARHR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>CREW S5102 RAN 3 WIRE DIGITAL LEVELS FROM Y 209 ON 12/5/08. M 208 WAS ALSO TIED BUT NOT USED IN CONTROL.</td> </tr> </table>	Comments	CREW S5102 RAN 3 WIRE DIGITAL LEVELS FROM Y 209 ON 12/5/08. M 208 WAS ALSO TIED BUT NOT USED IN CONTROL.
Comments			
CREW S5102 RAN 3 WIRE DIGITAL LEVELS FROM Y 209 ON 12/5/08. M 208 WAS ALSO TIED BUT NOT USED IN CONTROL.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 EAST AND STATE HIGHWAY 107 NORTH, IN THE COMMUNITY OF SHARON, GO NORTH ON HIGHWAY 107 FOR 0.50 MILES TO THE STATION MARK ON THE LEFT, 37.0 FEET WEST OF THE CENTERLINE OF THE HIGHWAY AND 2.5 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "230024A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230025	Date Monumented 12/3/2008	Monumented By AHTD	County FAULKNER	Route 36	Job Number: 080339
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	91,680.7261				
Easting (M)	379,982.5530				
Elevation (M)*	98.904				
Northing (SFT)	300,789.1822				
Easting (SFT)	1,246,659.4260				
Elevation (SFT)*	324.487				

Convergence Angle	0	7	40.2630023
Scale Factor	0.999963238		
Elevation Adjust. Factor	0.9999844790		
Combined Adjust. Factor	0.9999477176		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOOD GATE POST	183	2.59	8.5
MK # 2	COMBINATION POLE	268	13.11	43.0
MK # 3	WOOD GATE POST	250	5.94	19.5

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARBT Ref Mon # 3 ARHR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>CREW S5102 RAN 3 WIRE DIGITAL LEVELS FROM Y 209 ON 12/5/08. M 208 WAS ALSO TIED BUT NOT USED IN CONTROL.</td> </tr> </table>	Comments	CREW S5102 RAN 3 WIRE DIGITAL LEVELS FROM Y 209 ON 12/5/08. M 208 WAS ALSO TIED BUT NOT USED IN CONTROL.
Comments			
CREW S5102 RAN 3 WIRE DIGITAL LEVELS FROM Y 209 ON 12/5/08. M 208 WAS ALSO TIED BUT NOT USED IN CONTROL.			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 9 34.2707508
Longitude	92 13 10.9669908
Ellipsoid Height (M):	71.307
Geoid Height (M):	-27.597

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 EAST AND STATE HIGHWAY 107 NORTH, IN THE COMMUNITY OF SHARON, GO EAST ON HIGHWAY 36 FOR 0.20 MILES TO THE STATION MARK ON THE RIGHT, 41.5 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY, 10.5 EAST OF THE CENTER LINE OF A FIELD ENTRANCE AND NORTH 8.0 OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "230025 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	230024
Geodetic Azimuth	245 59 01
Grid Azimuth	246 06 41

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230026	Date Monumented 1/27/2010	Monumented By AHTD	County Faulkner	Route 365	Job Number: 012119,080388
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	78,813.2771	
Easting (M)	361,840.2160	
Elevation (M)*	87.894	
Northing (SFT)	258,573.2266	
Easting (SFT)	1,187,137.4420	
Elevation (SFT)*	288.367	

Convergence Angle	0	14	36.1508700
Scale Factor	0.999980253		
Elevation Adjust. Factor	0.9999862067		
Combined Adjust. Factor	0.9999664600		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RR signal box	183	33.00	108.3
MK # 2	Gas meter	90	26.20	86.0
MK # 3	Power pole with transformer	16	40.20	131.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	Elevation to this station is derived from digital level run from Benchmark Z 290 PID# FG1536 by crew S5102 in Feb. 2010.
Ref Mon # 2 ARBT	
Ref Mon # 3 ARHR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230027	Date Monumented 1/27/2010	Monumented By AHTD	County Faulkner	Route I-40	Job Number: 012119
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	73,725.2511	
Easting (M)	362,198.3830	
Elevation (M)*	94.425	
Northing (SFT)	241,880.2613	
Easting (SFT)	1,188,312.5282	
Elevation (SFT)*	309.793	

Convergence Angle	0	14	27.4361496
Scale Factor	0.999988069		
Elevation Adjust. Factor	0.9999851818		
Combined Adjust. Factor	0.9999732510		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	North end of the island	15	40.00	131.2	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARHR Ref Mon # 3 ARLR	DIGITAL LEVELS WERE RAN BY CREW S5103 IN MAY 2010 FROM NGS MARKS D 70 & X 290 IN JOB 012119

AZ Mark Station	230027A
Geodetic Azimuth	23 00 46
Grid Azimuth	23 15 13

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230027A	Date Monumented 1/27/2010	Monumented By AHTD	County Faulkner	Route I-40	Job Number: 012119,080388
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	74,119.2560	
Easting (M)	362,367.6900	
Elevation (M)*	101.536	
Northing (SFT)	243,172.9257	
Easting (SFT)	1,188,867.9963	
Elevation (SFT)*	333.122	

Convergence Angle	0	14	23.5889482
Scale Factor	0.999987440		
Elevation Adjust. Factor	0.9999840660		
Combined Adjust. Factor	0.9999715062		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	8 INCH ELM TREE	28	20.70	67.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	DIGITAL LEVELS WERE RAN BY CREW S5103 IN MAY 2010 FROM NGS MARKS D 70 & X 290 IN JOB 012119
Ref Mon # 2 ARHR	
Ref Mon # 3 ARLR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230028	Date Monumented 1/27/2010	Monumented By AHTD	County Faulkner	Route NA	Job Number: 012119,080388,080496
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	85,041.0411
Easting (M)	360,718.2320
Elevation (M)*	102.876
Northing (SFT)	279,005.4823
Easting (SFT)	1,183,456.3995
Elevation (SFT)*	337.519

Convergence Angle	0 15 2.5370287
Scale Factor	0.999971551
Elevation Adjust. Factor	0.9999838557
Combined Adjust. Factor	0.9999554071

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NW end of overpass	105	5.80	19.0
MK # 2	West end of guard rail	265	21.60	70.9
MK # 3	Street light pole	131	15.80	51.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARHR Ref Mon # 3 ARLR	Elevation to this station is derived from digital level run from benchmark B 68 PID#FG0096 by crew S5102 in Feb. 2010.

Location Description	
To reach the station from jct. I-40 & US-64 (exit 127) in Conway, follow US-64 West 1.3 miles to Siebenmorgen Rd. on right, go Right (East) on Siebenmorgen Rd. 0.4 miles to the station on the Left. The station is on top of North-West bank of Siebenmorgen overpass over I-40, 22 feet North of the centerline of Siebenmorgen Rd., 6.3 feet South-West of a R/W chain link fence and 6.3 feet South-West of a witness post. The station is a standard 2.5 inch cap stamped "230028 2010" set on top of a 4 foot rebar and driven 0.2 feet below the surface.	

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 5 56.7477456
Longitude	92 25 51.0197304
Ellipsoid Height (M):	75.070
Geoid Height (M):	-27.809

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230028A	Date Monumented 1/27/2010	Monumented By AHTD	County Faulkner	Route NA	Job Number: 012119, 080388,080496
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	85,034.1241
Easting (M)	360,180.7390
Elevation (M)*	101.756
Northing (SFT)	278,982.7888
Easting (SFT)	1,181,692.9745
Elevation (SFT)*	333.844

Convergence Angle	0 15 14.8855913
Scale Factor	0.999971563
Elevation Adjust. Factor	0.9999840314
Combined Adjust. Factor	0.9999555949

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:		3rd Order - Digital Level	
Elevation Datum:		NAVD 88	
Geoid Datum:			
Latitude	35	5	56.4464508
Longitude	92	26	12.2408700
Ellipsoid Height (M):	73.937		
Geoid Height (M):	-27.819		

Location Description
<p>To reach the station from jct. I-40 & US-64 (exit 127) in Conway, follow US-64 West 1.3 miles to Siebenmorgen Rd. on right, go Right (East) on Siebenmorgen Rd. 0.1 miles to the station on the Right. 30 feet South of the centerline of Siebenmorgen Rd., 61 feet West of the centerline of Sutton St., 13.5 feet North of an iron fence and 13.5 feet North of a witness post. The station is a standard 2.5 inch cap stamped "230028A 2010" set on top of a 4 foot rebar and driven 0.2 feet below the surface.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Brick fence corner	178	4.00	13.1
MK # 2	Power pole	29	25.90	85.0
MK # 3	South end of a concrete culvert	278	23.20	76.1

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR

Comments
<p>Elevation to this station is derived from digital level run from benchmark B 68 PID#FG0096 by crew S5102 in Feb. 2010.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230029	Date Monumented 3/23/2010	Monumented By AHTD	County FAULKNER	Route 287	Job Number: 080384
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	89,278.0851	
Easting (M)	374,804.5740	
Elevation (M)*	105.202	
Northing (SFT)	292,906.5175	
Easting (SFT)	1,229,671.3399	
Elevation (SFT)*	345.150	

Convergence Angle	0	9	39.1650710
Scale Factor	0.999966107		
Elevation Adjust. Factor	0.9999834906		
Combined Adjust. Factor	0.9999495982		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	FENCE CORNER	42	10.36	34.0	
MK # 2	FENCE CORNER	290	17.68	58.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARLR Ref Mon # 3 ARHR	ELEVATIONS RAN BY CREW S5112 ON 3/10 USING A DIGITAL 3 WIRE LEVEL FROM NGS BM WRB TO M 208.

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 287, NORTHEAST OF CONWAY, GO NORTH ON 287 1.45 MILES TO THE STATION MARK ON THE RIGHT, 15 FEET SOUTH OF AN ASPHALT TURN IN, 54 FEET SOUTH OF AN ASPHALT DRIVE, EAST 15.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 22.7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "230029 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	290029A
Geodetic Azimuth	1 13 27
Grid Azimuth	1 23 06

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230029A	Date Monumented 3/23/2010	Monumented By AHTD	County FAULKNER	Route 287	Job Number: 080384
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	89,813.2971	
Easting (M)	374,817.5150	
Elevation (M)*	104.068	
Northing (SFT)	294,662.4589	
Easting (SFT)	1,229,713.7971	
Elevation (SFT)*	341.431	

Convergence Angle	0	9	38.9021271
Scale Factor	0.999965459		
Elevation Adjust. Factor	0.9999836685		
Combined Adjust. Factor	0.9999491281		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CONC AHTD RIGHT OF WAY MARKER	331	32.31	106.0	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARBT Ref Mon # 3 ARHR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATIONS RAN BY CREW S5112 ON 3/10 USING A DIGITAL 3 WIRE LEVEL FROM NGS BM WRB TO M 208.</td> </tr> </table>	Comments	ELEVATIONS RAN BY CREW S5112 ON 3/10 USING A DIGITAL 3 WIRE LEVEL FROM NGS BM WRB TO M 208.
Comments			
ELEVATIONS RAN BY CREW S5112 ON 3/10 USING A DIGITAL 3 WIRE LEVEL FROM NGS BM WRB TO M 208.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 287, NORTHEAST OF CONWAY, GO NORTH ON 287 1.1 MILES TO THE STATION MARK ON THE RIGHT, EAST 14.1 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 25.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "230029A 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	230029
Geodetic Azimuth	181 13 27
Grid Azimuth	181 23 06

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230030	Date Monumented 5/26/2011	Monumented By AHTD	County Faulkner	Route Camp from	Job Number: 080397
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	87,317.8624	0.0087	
Easting (M)	358,057.0668	0.0073	
Elevation (M)*	119.145	0.0012	
Northing (SFT)	286,475.3536		
Easting (SFT)	1,174,725.5600		
Elevation (SFT)*	390.895		

Convergence Angle	0	16	3.9235060
Scale Factor	0.999968619		
Elevation Adjust. Factor	0.9999813026		
Combined Adjust. Factor	0.9999499222		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SW corner of DI	356	5.18	17.0
MK # 2	NW corner of Bridge over I-40	97	18.29	60.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. IS BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM D 291 AND E 291 BY CREW S5102 IN JUNE 2011 DURING JOB 080397.
Ref Mon # 2 Earnhart Hale	
Ref Mon # 3 ARLR	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid96
Latitude	35 7 10.2395684
Longitude	92 27 36.5130614
Ellipsoid Height (M):	91.259 0.0000
Geoid Height (M):	-27.873 0.5319

Location Description
<p>To reach from the intersection of Highway 25 and Highway 64 in Conway, go west on Highway 64 for 0.5 miles to Salem St., go right towards the I-40-exit 124 overpass for 0.3 miles to the station on the left. The station is 31 feet west of the center line of the overpass road, 2 feet west of a witness post, 6.5 feet west of the guardrail, and 121 feet north of the centerline of I-40 west bound. The station is a standard 2 1/2" AHTD cap stamped "2011 230030", set on top of a 4 foot rebar and driven 0.2 inches below ground level.</p>

AZ Mark Station	230030A
Geodetic Azimuth	259 53 03
Grid Azimuth	260 09 07

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230030A	Date Monumented 5/26/2011	Monumented By AHTD	County Faulkner	Route I-40	Job Number: 080397
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	87,251.1880	0.0092			
Easting (M)	357,672.9811	0.0077			
Elevation (M)*	112.099	0.0012			
Northing (SFT)	286,256.6060				
Easting (SFT)	1,173,465.4388				
Elevation (SFT)*	367.778				

Convergence Angle	0	16	12.7431254
Scale Factor	0.999968706		
Elevation Adjust. Factor	0.9999824083		
Combined Adjust. Factor	0.9999511149		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	24" CMP	321	16.46	54.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. IS BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM D 291 AND E 291 BY CREW S5102 IN JUNE 2011 DURING JOB 080397.
Ref Mon # 2 Earnhart Hale	
Ref Mon # 3 ARLR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230031	Date Monumented 5/26/2011	Monumented By AHTD	County Faulkner	Route Highway 2	Job Number: 080397,080688
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD83 (2011)		
Northing (M)	89,956.8698	0.0010	
Easting (M)	359,327.2233	0.0010	
Elevation (M)*	93.027	0.0023	
Northing (SFT)	295,133.4970		
Easting (SFT)	1,178,892.7318		
Elevation (SFT)*	305.207		

Convergence Angle	0	15	35.0083701
Scale Factor	0.999965355		
Elevation Adjust. Factor	0.9999854012		
Combined Adjust. Factor	0.9999507567		

SUPERCEDED CONTROL			
Horizontal Datum	NAD83(1997)		
Latitude	35	8	36.0650764
Longitude	92	26	46.8223305
Ellipsoid Height:	65.127		
Grid Northing (Meters)	89,956.8835		
Grid Easting (Meters)	359,327.2172		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	twin 18" cedar tree		229	24.99	82.0
MK # 2	18" sycamore tree		139	26.82	88.0
MK # 3	SW end of concrete drainage ditch		98	17.68	58.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="ARCW"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="ARBT"/> Ref Mon # 3 <input style="width: 150px;" type="text" value="ARRV"/>	ELEV. IS BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM D 291 AND E 291 BY CREW S5102 IN JUNE 2011 DURING JOB 080397.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230031A	Date Monumented 5/26/2011	Monumented By AHTD	County Faulkner	Route Highway 2	Job Number: 080397,080688
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD83 (2011)		
Northing (M)	90,650.3923	0.0010	
Easting (M)	359,735.8231	0.0010	
Elevation (M)*	86.119	0.0025	
Northing (SFT)	297,408.8287		
Easting (SFT)	1,180,233.2796		
Elevation (SFT)*	282.540		

Convergence Angle	0	15	25.6869284
Scale Factor	0.999964525		
Elevation Adjust. Factor	0.9999864854		
Combined Adjust. Factor	0.9999510109		

SUPERCEDED CONTROL			
Horizontal Datum	NAD83(1997)		
Latitude	35	8	58.6296586
Longitude	92	26	30.8050533
Ellipsoid Height:	58.215		
Grid Northing (Meters)	90,650.4091		
Grid Easting (Meters)	359,735.7734		

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>ARCW</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARBT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARRV</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARCW	Ref Mon # 2	ARBT	Ref Mon # 3	ARRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. IS BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM D 291 AND E 291 BY CREW S5102 IN JUNE 2011 DURING JOB 080397.</td> </tr> </table>	Comments	ELEV. IS BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM D 291 AND E 291 BY CREW S5102 IN JUNE 2011 DURING JOB 080397.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARCW										
Ref Mon # 2	ARBT										
Ref Mon # 3	ARRV										
Comments											
ELEV. IS BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM D 291 AND E 291 BY CREW S5102 IN JUNE 2011 DURING JOB 080397.											

Vertical Determined By: 3rd Order - Digital Levels

Elevation Datum: NAVD 88

Geoid Datum: GEOID18

Latitude 35 8 58.6291200

Longitude 92 26 30.8030856

Ellipsoid Height (M): 58.035 0.0020

Geoid Height (M): -28.064

Location Description

To reach the station from the intersection of Highway 25 and Highway 64 in Conway, go in a northeasterly direction for 3.5 miles to the station on the right, 31 feet east of the centerline of Highway 25, 2 feet west of a witness post and 17 feet south of the center of a paved driveway to a field entrance. The station is a standard 2 1/2" AHTD cap stamped "2011 230031A", set on top of a 4 foot rebar and driven 0.2 inches below ground level.

AZ Mark Station	
Geodetic Azimuth	210 14 43
Grid Azimuth	210 30 08

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230032	Date Monumented 10/4/2011	Monumented By AHTD	County FAULKNER	Route 124/285	Job Number: 080426
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	110,347.1267	
Easting (M)	358,439.8491	
Elevation (M)*	132.888	
Northing (SFT)	362,030.5315	
Easting (SFT)	1,175,981.4049	
Elevation (SFT)*	435.982	

Convergence Angle	0	15	57.5836518
Scale Factor	0.999945949		
Elevation Adjust. Factor	0.9999791461		
Combined Adjust. Factor	0.9999250962		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER OF ROCK MONUME	123	4.27	14.0
MK # 2	FIRE HYDRANT	220	12.50	41.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>HANDHELD 35-19-38 92-27-26</td> </tr> </table>	Comments	HANDHELD 35-19-38 92-27-26
Comments			
HANDHELD 35-19-38 92-27-26			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230032A	Date Monumented 10/4/2011	Monumented By AHTD	County FAULKNER	Route 124	Job Number: 080426
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	110,306.7384	
Easting (M)	358,024.3520	
Elevation (M)*	135.065	
Northing (SFT)	361,898.0242	
Easting (SFT)	1,174,618.2282	
Elevation (SFT)*	443.127	

Convergence Angle	0	16	7.1525796
Scale Factor	0.999945979		
Elevation Adjust. Factor	0.9999788043		
Combined Adjust. Factor	0.9999247844		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TELEPHONE BOX	271	22.09	72.5	230032
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	HANDHELD 35-19-36 92-27-41

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230033	Date Monumented 10/4/2011	Monumented By AHTD	County FAULKNER	Route 285	Job Number: 080426
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	105,911.6216	
Easting (M)	356,924.3250	
Elevation (M)*	100.799	
Northing (SFT)	347,478.3785	
Easting (SFT)	1,171,009.2229	
Elevation (SFT)*	330.704	

Convergence Angle	0	16	32.0106679
Scale Factor	0.999949309		
Elevation Adjust. Factor	0.9999841816		
Combined Adjust. Factor	0.9999334914		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE TO FIELD	290	8.53	28.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	HANDHELD 35-17-13 92-28-24

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230033A	Date Monumented 10/4/2011	Monumented By AHTD	County FAULKNER	Route 285	Job Number: 080426
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	105,641.4109				
Easting (M)	357,124.1976				
Elevation (M)*	98.956				
Northing (SFT)	346,591.8623				
Easting (SFT)	1,171,664.9716				
Elevation (SFT)*	324.658				

Convergence Angle	0	16	27.3779865
Scale Factor	0.999949528		
Elevation Adjust. Factor	0.9999844708		
Combined Adjust. Factor	0.9999339996		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	297	9.42	30.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	HANDHELD 35-17-04 92-28-17

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid09
Latitude	35 17 4.6901904
Longitude	92 28 16.8198420
Ellipsoid Height (M):	70.882
Geoid Height (M):	-28.076

Location Description
TO REACH THE STATION MARK FROM JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 285 3.9 MILES, WEST OF DAMASCUS, GO SOUTH ON HIGHWAY 285 3.20 MILES TO THE STATION ON THE RIGHT. EAST 70.5 OF PAVED ROAD TO ARKANSAS GAME AND FISH COMM. HWY 285 ACCESS ENTERANCE, SOUTHWEST 73.8 OF THE CENTERLINE OF HIGHWAY 285 AND NORTHEAST 18.3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "230033A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230034	Date Monumented 9/1/2011	Monumented By AHTD	County FAULKNER	Route 64	Job Number: 012154Mobie LiDAR-CLS
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	85,305.2469	
Easting (M)	387,804.8165	
Elevation (M)*	99.934	
Northing (SFT)	279,872.2975	
Easting (SFT)	1,272,322.9688	
Elevation (SFT)*	327.866	

Convergence Angle	0	4	40.2061285
Scale Factor	0.999971100		
Elevation Adjust. Factor	0.9999843174		
Combined Adjust. Factor	0.9999554178		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>HANDHELD, 35-06-08, 92-08-01, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.</td> </tr> </table>	Comments	HANDHELD, 35-06-08, 92-08-01, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.
Comments			
HANDHELD, 35-06-08, 92-08-01, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 5, SOUTH OF ELPASO, GO WEST ON 64 FOR 2.6 MILES TO THE STATION MARK ON THE RIGHT, NORTHWEST 34.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST 3.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "230030 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230035	Date Monumented 4/9/2013	Monumented By AHTD	County FAULKNER	Route 89	Job Number: 080457
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	69,755.1076	0.0030			
Easting (M)	359,714.6785	0.0030			
Elevation (M)*	90.710				
Northing (SFT)	228,854.8822				
Easting (SFT)	1,180,163.9077				
Elevation (SFT)*	297.603				

Convergence Angle	0	15	24.0210178
Scale Factor	0.999994629		
Elevation Adjust. Factor	0.9999857649		
Combined Adjust. Factor	0.9999803940		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	263	8.41	27.6
MK # 2	EAST END 24" CMP	250	15.45	50.7
MK # 3				

<table style="width: 100%;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARBT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>P777</td> </tr> <tr> <td>Ref Mon # 3</td> <td>230019</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARBT	Ref Mon # 2	P777	Ref Mon # 3	230019	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. ESTABLISHED FROM DIGITAL LEVELS BETWEEN 1ST ORDER NGS BENCHMARKS F 70 & X 290 BY S5112 IN APRIL 2013 FOR JOB # 080457. *NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.</td> </tr> </table>	Comments	ELEV. ESTABLISHED FROM DIGITAL LEVELS BETWEEN 1ST ORDER NGS BENCHMARKS F 70 & X 290 BY S5112 IN APRIL 2013 FOR JOB # 080457. *NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARBT										
Ref Mon # 2	P777										
Ref Mon # 3	230019										
Comments											
ELEV. ESTABLISHED FROM DIGITAL LEVELS BETWEEN 1ST ORDER NGS BENCHMARKS F 70 & X 290 BY S5112 IN APRIL 2013 FOR JOB # 080457. *NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.											

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 89 NORTH, IN MAYFLOWER, GO NORTH ON HIGHWAY 89 FOR 1.25 MILES TO THE STATION MARK ON THE RIGHT, NORTH 47.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND AT THE SOUTHEAST CORNER OF THE NORTHSIDE APOSTOLIC CHURCH PARKING LOT. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2013 230035" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

AZ Mark Station	230035A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230035A	Date Monumented 4/9/2013	Monumented By AHTD	County FAULKNER	Route 89	Job Number: 080457
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	69,746.2385	0.0030			
Easting (M)	359,148.5177	0.0030			
Elevation (M)*	86.347				
Northing (SFT)	228,825.7841				
Easting (SFT)	1,178,306.4285				
Elevation (SFT)*	283.289				

Convergence Angle	0	15	37.0058997
Scale Factor	0.999994648		
Elevation Adjust. Factor	0.9999864496		
Combined Adjust. Factor	0.9999810976		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	95	28.96	95.0
MK # 2	NORTHWEST CORNER OF I-S-FRAME HOUS	154	17.37	57.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	ELEV. ESTABLISHED FROM DIGITAL LEVELS BETWEEN 1ST ORDER NGS BENCHMARKS F 70 & X 290 BY S5112 IN APRIL 2013 FOR JOB # 080457. *NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 P777	
Ref Mon # 3 230019	

Vertical Determined By: 3rd Order - Digital Levels	
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	34 57 40.2060240
Longitude	92 26 50.2548612
Ellipsoid Height (M):	58.858 0.0107
Geoid Height (M):	-27.489

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 89 NORTH, IN MAYFLOWER, GO NORTH ON HIGHWAY 89 FOR 1.55 MILES TO THE STATION MARK ON THE LEFT, SOUTH 35.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND 14.5 FEET WEST OF A DRIVE WAY AND 15.7 FEET EAST OF ANOTHER DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2013 230035A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 230036	Date Monumented 4/29/2015	Monumented By AHTD	County FAULKNER	Route 25	Job Number: 012227
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	107,648.0231	0.0030			
Easting (M)	367,041.6284	0.0030			
Elevation (M)*	195.193				
Northing (SFT)	353,175.2225				
Easting (SFT)	1,204,202.4092				
Elevation (SFT)*	640.396				

Convergence Angle	0	12	39.1639723
Scale Factor	0.999947905		
Elevation Adjust. Factor	0.9999693688		
Combined Adjust. Factor	0.9999172754		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER BARN	277	89.90	294.9
MK # 2	FENCE CORNER	247	102.00	334.6
MK # 3	POWER POLE	30	94.60	310.4

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Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARLR										
Ref Mon # 2	ARBT										
Ref Mon # 3	P777										
Comments											
<p>*NOTE: THIS MONUMENT REPLACES 230006 THAT WAS DESTROYED IN PREVIOUS HWY. WIDENING. M 68 WAS ALSO DESTROYED FROM PREVIOUS HWY. WIDENING JOB. FOR JOB # 012227 S5112 YIELDED TO THE ORIGINAL ELEV. ON 230006A. ELEV. BASED ON DIGITAL LEVELS FROM GPS # 230006A WHICH WAS BASED ON 3 WR LEVEL RUN FROM NGS 2ND ORDER BM M 68. QUALITY OF ELEV. ON 230006A WAS VERIFIED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND</p>											

Location Description	
<p>TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 25N AND STATE HIGHWAY 65, NORTH OF GREENBRIER, GO NORTH ON HIGHWAY 25 3.1 MILES TO THE MARK ON THE LEFT, WEST 22.1 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2015 230036" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	35 18 11.1664620
Longitude	92 21 44.6315688
Ellipsoid Height (M):	167.257 0.0060
Geoid Height (M):	-27.930 0.0060

AZ Mark Station	230006A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230037	Date Monumented 4/29/2015	Monumented By AHTD	County FAULKNER	Route 25	Job Number: 012227
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	110,109.2310	0.0030			
Easting (M)	370,585.2099	0.0030			
Elevation (M)*	209.087				
Northing (SFT)	361,250.0354				
Easting (SFT)	1,215,828.3095				
Elevation (SFT)*	685.978				

Convergence Angle	0	11	17.7279204
Scale Factor	0.999946083		
Elevation Adjust. Factor	0.9999671886		
Combined Adjust. Factor	0.9999132733		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	310	32.90	107.9
MK # 2	MANHOLE	71	99.20	325.5
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARBT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>P777</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARLR	Ref Mon # 2	ARBT	Ref Mon # 3	P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN 2015 FROM AHTD GPS # 230006A WHOSE ELEV. WAS PREVIOUSLY BASED ON LEVELS FROM 2ND ORDER NGS BM M 68 (MONUMENT LATER DESTROYED) & CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN 2015 FROM AHTD GPS # 230006A WHOSE ELEV. WAS PREVIOUSLY BASED ON LEVELS FROM 2ND ORDER NGS BM M 68 (MONUMENT LATER DESTROYED) & CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARLR										
Ref Mon # 2	ARBT										
Ref Mon # 3	P777										
Comments											
ELEV. BASED ON DIGITAL LEVELS BY S5112 IN 2015 FROM AHTD GPS # 230006A WHOSE ELEV. WAS PREVIOUSLY BASED ON LEVELS FROM 2ND ORDER NGS BM M 68 (MONUMENT LATER DESTROYED) & CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.											

Location Description
TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 107S, SOUTHWEST OF QUITMAN, GO SOUTH ON HIGHWAY 25 6.5 MILES TO THE MARK ON THE RIGHT, NORTH 54.2 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2015 230037" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	230037A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230037A	Date Monumented 4/29/2015	Monumented By AHTD	County FAULKNER	Route 25	Job Number: 012227
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	109,947.2883 0.0020
Easting (M)	371,040.3005 0.0020
Elevation (M)*	211.842
Northing (SFT)	360,718.7284
Easting (SFT)	1,217,321.3859
Elevation (SFT)*	695.018

Convergence Angle	0 11 7.2304646
Scale Factor	0.999946197
Elevation Adjust. Factor	0.9999667562
Combined Adjust. Factor	0.9999129550

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	208	28.80	94.5
MK # 2	GUY WIRE	210	3.00	9.8
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARBT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>P777</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARLR	Ref Mon # 2	ARBT	Ref Mon # 3	P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN 2015 FROM AHTD GPS # 230006A WHOSE ELEV. WAS PREVIOUSLY BASED ON LEVELS FROM 2ND ORDER NGS BM M 68 (MONUMENT LATER DESTROYED) & CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN 2015 FROM AHTD GPS # 230006A WHOSE ELEV. WAS PREVIOUSLY BASED ON LEVELS FROM 2ND ORDER NGS BM M 68 (MONUMENT LATER DESTROYED) & CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARLR										
Ref Mon # 2	ARBT										
Ref Mon # 3	P777										
Comments											
ELEV. BASED ON DIGITAL LEVELS BY S5112 IN 2015 FROM AHTD GPS # 230006A WHOSE ELEV. WAS PREVIOUSLY BASED ON LEVELS FROM 2ND ORDER NGS BM M 68 (MONUMENT LATER DESTROYED) & CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.											

Location Description
TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 107S, SOUTHWEST OF QUITMAN, GO SOUTH ON HIGHWAY 25 6.2 MILES TO THE MARK ON THE RIGHT, NORTH 87 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2015 230037A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	35 19 26.2254612
Longitude	92 19 6.6428328
Ellipsoid Height (M):	183.986 0.0060
Geoid Height (M):	-27.849 0.0060

AZ Mark Station	230037
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230038	Date Monumented 2/18/2016	Monumented By AHTD	County FAULKNER	Route 365	Job Number: 061507
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	63,773.6449	0.0020			
Easting (M)	359,194.2589	0.0020			
Elevation (M)*	83.627				
Northing (SFT)	209,230.7000				
Easting (SFT)	1,178,456.4977				
Elevation (SFT)*	274.365				

Convergence Angle	0	15	35.3355438
Scale Factor	1.000005217		
Elevation Adjust. Factor	0.9999868764		
Combined Adjust. Factor	0.9999920934		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE W/2 TELEPHONE BOXES	313		
MK # 2		25		
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARHR Ref Mon # 3 ARLR, P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM T 290 IN FEB. 2016 FOR JOB #061507.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM T 290 IN FEB. 2016 FOR JOB #061507.
Comments			
ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM T 290 IN FEB. 2016 FOR JOB #061507.			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 89, IN MAYFLOWER, GO EAST ON HIGHWAY 365 3.65 MILES TO THE MARK ON THE RIGHT, NORTHWEST OF THE CENTERLINE OF THE HIGHWAY 31 FEET AND NORTHEAST OF THE CENTERLINE OF AN ASPHALT ROAD APRON 18 FEET. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 230038" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230039	Date Monumented 3/20/2017	Monumented By AHTD	County FAULKNER	Route US-64	Job Number: 080563
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	83,520.3529 0.0020
Easting (M)	368,781.1469 0.0020
Elevation (M)*	

Northing (SFT)	274,016.3578	
Easting (SFT)	1,209,909.4795	
Elevation (SFT)*		

Convergence Angle	0	11	57.1638821
Scale Factor	0.999973547		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
TO REACH THE STATION MARK FROMK THE JUNCTION OF STATE HIGHWAY 64 AND SATE HIGHWAY 36, EAST OF CONWAY, GO EAST ON HIGHWAY 64 2.21 MILES TO THE STATION ON THE RIGHT, 44' NORTH OF THE C/L OF THE HIGHWAY AND 38' WEST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "230009 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MARKER	28	13.40	44.0
MK # 2	CTR OF H/W	275	37.80	124.0
MK # 3	CULVERT	240	8.50	27.9

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	P777

Comments
GPS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARBT, ARHR, ARLR & NGS 2ND ORDER BM U 333.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230039A	Date Monumented 3/20/2017	Monumented By AHTD	County FAULKNER	Route US-64	Job Number: 080563
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	83,513.0242 0.0020
Easting (M)	369,324.4200 0.0020
Elevation (M)*	

Northing (SFT)	273,992.3136	
Easting (SFT)	1,211,691.8680	
Elevation (SFT)*		

Convergence Angle	0	11	44.6832589
Scale Factor	0.999973554		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION MARK FROMK THE JUNCTION OF STATE HIGHWAY 64 AND SATE HIGHWAY 36, EAST OF CONWAY, GO EAST ON HIGHWAY 64 1.9 MILES TO THE STATION ON THE LEFT, 45' SOUTH OF THE C/L OF THE HIGHWAY AND 28' NORTH OF A FENCE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "230009A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 COMBINATION POLE	123	15.80	51.8	AZ Mark Station 230039
MK # 2 COMBINATION POLE	255	32.60	107.0	Geodetic Azimuth
MK # 3				Grid Azimuth

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARBT</p> <p>Ref Mon # 2 ARLR</p> <p>Ref Mon # 3 P777</p>	<p style="text-align: center; margin: 0;">Comments</p> <p>GPS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARBT, ARHR, ARLR & NGS 2ND ORDER BM U 333.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240001	Date Monumented 5/2/1991	Monumented By AHTD	County FRANKLIN	Route 23	Job Number: 1648, 040621
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	151,702.3814 0.0030
Easting (M)	235,328.2477 0.0030
Elevation (M)*	227.115

Northing (SFT)	497,710.2296		
Easting (SFT)	772,072.7593		
Elevation (SFT)*	745.126		

Convergence Angle	-1	3	31.3895165
Scale Factor	0.999937538		
Elevation Adjust. Factor	0.9999643595		
Combined Adjust. Factor	0.9999018998		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)
Latitude	35 41 13.2900000
Longitude	93 49 9.9146388
Ellipsoid Height:	198.730
Grid Northing (Meters)	151,702.3822
Grid Easting (Meters)	235,328.2434

Location Description

FROM THE JCT. OF I-40 & HWY. 23, GO NORTH ON HWY. 23 TO THE JOB CORPS TRAINING CENTER AT CASS. THE STATION IS 37.96 FEET RIGHT OF THE CENTERLINE OF HWY. 23, 41.56 FEET RIGHT OF THE FIRST ENTRANCE TO THE JOB CORPS TRAINING CENTER, 50.03 FEET RIGHT OF A GRAVEL ROAD AND 1.65 FEET WEST OF WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	15	49.52	162.5
MK # 2	NBC IN COMBINATION POLE	142	19.22	63.1
MK # 3	NBC IN POWER POLE	212	66.83	219.3

AZ Mark Station	91240002
Geodetic Azimuth	0 51 18
Grid Azimuth	1 54 49

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 ARHR Ref Mon # 3 ARLR	Comments ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM X 92 BY CREW S5112 IN OCT. 2015 FOR JOB #040621. USED STATIC GPS CONSTRAINING ORHTO. HTS. ON CORS ARFY, ARHR, & ARLR TO VERIFY ELEVATIONS RAN FROM X 92 TO GPS POINTS 240001 & 240002 FIT ELEVATIONS RAN FROM W 92 TO GPS POINTS 240009 & 240009A.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240002	Date Monumented 5/2/1991	Monumented By AHTD	County FRANKLIN	Route 23	Job Number: 1648, 040621
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	152,020.5513 0.0030
Easting (M)	235,338.8859 0.0030
Elevation (M)*	228.261

Northing (SFT)	498,754.0921
Easting (SFT)	772,107.6615
Elevation (SFT)*	748.887

Convergence Angle	-1 3 31.2794056
Scale Factor	0.999937629
Elevation Adjust. Factor	0.9999641797
Combined Adjust. Factor	0.9999018109

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35 41 23.6186340		
Longitude	93 49 9.7253868		
Ellipsoid Height:	199.879		
Grid Northing (Meters)	152,020.5521		
Grid Easting (Meters)	235,338.8822		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN COMBINATION POLE	31		24.38	80.0
MK # 2	NBC IN COMBINATION POLE	174		76.60	251.3
MK # 3	NBC IN POWER POLE	213		33.54	110.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM X 92 BY CREW S5112 IN OCT. 2015 FOR JOB #040621. USED STATIC GPS CONSTRAINING ORHTO. HTS. ON CORS ARFY, ARHR, & ARLR TO VERIFY ELEVATIONS RAN FROM X 92 TO GPS POINTS 240001 & 240002 FIT ELEVATIONS RAN FROM W 92 TO GPS POINTS 240009 & 240009A.
Ref Mon # 2 ARHR	
Ref Mon # 3 ARLR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240003	Date Monumented 5/7/1991	Monumented By AHTD	County FRANKLIN	Route 83	Job Number: 1648
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 151,404.8740		Geoid Datum:
Easting (M) 241,784.8090		Latitude 35 41 7.4330844
Elevation (M)* 		Longitude 93 44 52.9459944
Northing (SFT) 496,734.1574		Ellipsoid Height (M): 212.144
Easting (SFT) 793,255.6609		Geoid Height (M): -28.958
Elevation (SFT)* 		

Convergence Angle -1 1 1.8597869	Location Description FROM THE JCT. OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, GO RIGHT 4.75 MILES TO A CONCRETE BRIDGE AND TURN RIGHT AT THE END OF THE BRIDGE ONTO A FIELD ROAD, FOLLOW FIELD ROAD FOR 0.10 MILES TO THE STATION ON THE RIGHT. THE STATION IS 230 FEET FROM THE CENTERLINE OF THE CO. RD. AND 1.85 FEET NORTH OF A WITNESS POST.
Scale Factor 0.999937488	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	347	151.55	497.2
MK # 2	NBC IN COMBINATION POLE	348	59.52	195.3
MK # 3	NBC IN 26" SWEET GUM	243	41.30	135.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 OZARPORT	OLD PN: 91240003
Ref Mon # 2 CLARPORT	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240004	Date Monumented 5/7/1991	Monumented By AHTD	County FRANKLIN	Route 83	Job Number: 1648
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 150,724.4450		Geoid Datum:
Easting (M) 242,309.1210		Latitude 35 40 45.6593844
Elevation (M)* 		Longitude 93 44 31.6172652
Northing (SFT) 494,501.7833		Ellipsoid Height (M): 217.302
Easting (SFT) 794,975.8411		Geoid Height (M): -28.975
Elevation (SFT)* 		

Convergence Angle -1 0 49.4486180	Location Description FROM THE JCT. OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, GO RIGHT 5.30 MILES TO THE ENTRANCE TO BYRDS CANOE RENTAL, GO 612.74 FEET DOWN DRIVE TO STATION ON THE RIGHT THE STATION IS 93.64 FEET RIGHT OF THE DRIVE TO BYRDS CANOE RENTAL AND 9.22 FEET FROM A WITNESS POST.
Scale Factor 0.999937308	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN COMBINATION POLE	280	2.81	9.2	AZ Mark Station 91240003 AZ. MK.
MK # 2	NBC IN COMBINATION POLE	15	113.64	372.8	Geodetic Azimuth 321 22 12
MK # 3	NBC IN 18" PINE	34	72.76	238.7	Grid Azimuth 322 23 01

Area Reference Monuments (used for Processing) Ref Mon # 1 OZARPORT Ref Mon # 2 CLARPORT Ref Mon # 3 NONE	Comments OLD PN: 91240004
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240005	Date Monumented 5/7/1991	Monumented By AHTD	County FRANKLIN	Route 83	Job Number: 1648
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 150,582.3540		Geoid Datum:
Easting (M) 245,911.9420		Latitude 35 40 43.0941540
Elevation (M)* 		Longitude 93 42 8.2585332
Northing (SFT) 494,035.6064		Ellipsoid Height (M): 230.730
Easting (SFT) 806,796.0964		Geoid Height (M): -28.980
Elevation (SFT)* 		

Convergence Angle 0 59 26.0282969	Location Description FROM THE JCT. OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, GO 8.05 MILES ON CO. RD. TO A FIELD ENTRANCE ON THE RIGHT, GO SOUTHWEST THROUGH FIELD PAST SMALL BARN. THE STATION IS 2.4 FEET NORTHWEST OF A WITNESS POST AND JUST WEST OF THE JOHNSON COUNTY LINE.
Scale Factor 0.999937287	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL	
Horizontal Datum 	
Latitude 	
Longitude 	
Ellipsoid Height: 	
Grid Northing (Meters) 	
Grid Easting (Meters) 	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTHEAST CORNER OF BARN	60	29.31	96.2	AZ Mark Station 91360007
MK # 2	TOP OF SW BOLT ON WELL CURBING	89	63.69	208.9	Geodetic Azimuth 113 01 28
MK # 3	NBC IN 30" OAK	111	43.11	141.4	Grid Azimuth 114 00 54

Area Reference Monuments (used for Processing) Ref Mon # 1 OZARPORT Ref Mon # 2 CLARPORT Ref Mon # 3 NONE	Comments OLD PN: 91240005
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240006	Date Monumented 9/8/1998	Monumented By AHTD	County FRANKLIN	Route 22	Job Number: 40148
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 109,649.7201		Latitude 35 18 21.7454292
Easting (M) 223,667.8470		Longitude 93 56 20.6610360
Elevation (M)* 149.882		Ellipsoid Height (M): 120.150
		Geoid Height (M): -29.697

Northing (SFT) 359,742.4567		
Easting (SFT) 733,816.9280		
Elevation (SFT)* 491.738		

Convergence Angle -1 7 42.0405700		
Scale Factor 0.999947656		
Elevation Adjust. Factor 0.9999764792		
Combined Adjust. Factor 0.9999241364		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 41 AND STATE HIGHWAY 22, LOCATED IN BRANCH, GO EAST ON STATE HIGHWAY 22 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.014 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 22 AND 1.14 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "240006 1998" SET ON TOP OF AN IRON ROD 0.65 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE JUNCTION BOX	263	18.32	60.1	AZ Mark Station 240006A
MK # 2	COMBINATION POLE	87	47.73	156.6	Geodetic Azimuth 90 22 05.071073
MK # 3					Grid Azimuth 91 29 47.079695

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 OZARPORT	
Ref Mon # 2 AHTD FS2	
Ref Mon # 3 Q 299	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240006A	Date Monumented 9/8/1998	Monumented By AHTD	County FRANKLIN	Route 22	Job Number: 40148
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 109,639.0641		Latitude 35 18 21.6600624
Easting (M) 224,075.7520		Longitude 93 56 4.5087108
Elevation (M)* 148.847		Ellipsoid Height (M): 119.122
		Geoid Height (M): -29.694

Northing (SFT) 359,707.4961		
Easting (SFT) 735,155.1964		
Elevation (SFT)* 488.342		

Convergence Angle -1 7 32.6415460		
Scale Factor 0.999947658		
Elevation Adjust. Factor 0.9999766416		
Combined Adjust. Factor 0.9999243008		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 41 AND STATE HIGHWAY 22, LOCATED IN BRANCH, GO EAST ON STATE HIGHWAY 22 FOR 0.72 KM (0.45 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.23 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 22 And 5.75 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "240006A 1998" SET ON TOP OF AN IRON ROD 0.65 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CABLE MARKED SIGN	166	5.90	19.4
MK # 2	COMBINATION POLE	101	20.55	67.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 OZARPORT	
Ref Mon # 2 AHTD FS2	
Ref Mon # 3 Q 299	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240007	Date Monumented 9/8/1998	Monumented By AHTD	County FRANKLIN	Route 41	Job Number: 40148
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	115,797.1090	
Easting (M)	224,237.8950	
Elevation (M)*	129.025	
Northing (SFT)	379,911.0151	
Easting (SFT)	735,687.1605	
Elevation (SFT)*	423.310	

Convergence Angle	-1	7	31.6935255
Scale Factor	0.999943448		
Elevation Adjust. Factor	0.9999797522		
Combined Adjust. Factor	0.9999232013		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	67	23.98	78.7
MK # 2	POWER POLE	100	23.24	76.2
MK # 3	CABLE MARKER SIGN	180	59.44	195.0

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>OZARPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD FS2</td> </tr> <tr> <td>Ref Mon # 3</td> <td>Q 299</td> </tr> </table>	Ref Mon # 1	OZARPORT	Ref Mon # 2	AHTD FS2	Ref Mon # 3	Q 299	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	OZARPORT							
Ref Mon # 2	AHTD FS2							
Ref Mon # 3	Q 299							
Comments								

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 21 41.5520820
Longitude	93 56 2.8795272
Ellipsoid Height (M):	99.470
Geoid Height (M):	-29.544

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 41 AND STATE HIGHWAY 60, LOCATED ABOUTH 6.44 KM (4.00 MI) NORTH OF BRANCH, GO NORTH ON STATE HIGHWAY 41FOR 0.17 KM (0.11 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.613 METERS WEST OF THE CENTER OF STATE HIGHWAY 41 AND 1.00 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "240007 1998" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240007A	Date Monumented 9/8/1998	Monumented By AHTD	County FRANKLIN	Route 41	Job Number: 40148
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 115,320.9801		Latitude 35 21 26.1037080
Easting (M) 224,236.1520		Longitude 93 56 2.5781136
Elevation (M)* 132.199		Ellipsoid Height (M): 102.623
Northing (SFT) 378,348.9155		Geoid Height (M): -29.557
Easting (SFT) 735,681.4420		
Elevation (SFT)* 433.723		

Convergence Angle -1 7 31.5181332	Scale Factor 0.999943740
Elevation Adjust. Factor 0.9999792541	Combined Adjust. Factor 0.9999229953

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	ROCK FENCE POST	25	3.86	12.7
MK # 2	ROCK FENCE POST	171	18.15	59.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 OZARPORT	
Ref Mon # 2 AHTD FS2	
Ref Mon # 3 Q 299	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240008	Date Monumented 11/13/2000	Monumented By AHTD	County FRANKLIN	Route 41	Job Number: 004984
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	106,045.4931	
Easting (M)	223,130.6780	
Elevation (M)*		
Northing (SFT)	347,917.5886	
Easting (SFT)	732,054.5661	
Elevation (SFT)*		

Convergence Angle	-1	7	52.7725386
Scale Factor	0.999950560		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 41 AND STATE HIGHWAY 22, LOCATED IN BRANCH, GO SOUTH ON STATE HIGHWAY 41 FOR 4.38 KM (2.72 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.26 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 41 AND 0.38 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "240008 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 518.771 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 AHTD FS 2</p> <p>Ref Mon # 2 OZARPORT</p> <p>Ref Mon # 3 420006</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240008A	Date Monumented 11/13/2000	Monumented By AHTD	County FRANKLIN	Route 41	Job Number: 004984
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	106,063.4421	
Easting (M)	222,612.2480	
Elevation (M)*		
Northing (SFT)	347,976.4763	
Easting (SFT)	730,353.6836	
Elevation (SFT)*		

Convergence Angle	-1	8	4.7155031
Scale Factor	0.999950554		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF CMP	16	2.95	9.7
MK # 2	GATE POST	141	7.90	25.9
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>AHTD FS 2</td> </tr> <tr> <td>Ref Mon # 2</td> <td>OZARPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>420006</td> </tr> </table>	Ref Mon # 1	AHTD FS 2	Ref Mon # 2	OZARPORT	Ref Mon # 3	420006	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	AHTD FS 2						
Ref Mon # 2	OZARPORT						
Ref Mon # 3	420006						

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 16 24.7173348

Longitude 93 56 59.6281560

Ellipsoid Height (M): 104.005

Geoid Height (M): -29.789

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 41 AND STATE HIGHWAY 22, LOCATED IN BRANCH, GO SOUTH ON STATE HIGHWAY 41 FOR 3.86 KM (2.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.40 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 41, 7.00 METERS WEST OF THE CENTER OF A PASTURE ENTRANCE AND 1.37 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "240008A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 518.771 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240009	Date Monumented 11/17/2004	Monumented By AHTD	County FRANKLIN	Route 23	Job Number: 040815
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	148,365.4927	0.0020			
Easting (M)	234,379.5335	0.0020			
Elevation (M)*	230.375				
Northing (SFT)	486,762.4540				
Easting (SFT)	768,960.1862				
Elevation (SFT)*	755.822				

Convergence Angle	-1	3	51.9081754
Scale Factor	0.999936734		
Elevation Adjust. Factor	0.9999638480		
Combined Adjust. Factor	0.9999005842		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	14" ELM TREE	52	17.80	58.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFS Ref Mon # 2 ARFY Ref Mon # 3 ARHR, ARRV	ELEVATIONS DETERMINED BY 3 WIRE LEVELS USING NGS BENCH MARK W 92 BY CREW S5102 5/16/05. LAST STATIC POSITION IN JUNE OF 2020 BY S5112 FOR JOB #040815. ELEVATIONS FROM JOB #040441 MAINTAINED.

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 39 24.4620900
Longitude	93 49 45.1760052
Ellipsoid Height (M):	201.764 0.0090
Geoid Height (M):	-28.602 0.0090

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 23, IN OZARK, GO NORTH ON HIGHWAY 23 FOR 14.10 MILES TO THE STATION ON THE RIGHT, 0.70 MILES SOUTH OF TURNER BEND STORE, 45 METERS SOUTH SOUTHWEST OF A GRAVEL DRIVE, EAST SOUTHEAST 9.0 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST NORTHWEST 0.70 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "240009 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240009 SS	Date Monumented 11/17/2004	Monumented By AHTD	County FRANKLIN	Route 23	Job Number: 040441, 040621, 040815
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	148,365.4863 0.0030
Easting (M)	234,379.5217 0.0030
Elevation (M)*	230.375

Northing (SFT)	486,762.4330		
Easting (SFT)	768,960.1474		
Elevation (SFT)*	755.822		

Convergence Angle	-1	3	51.9084456
Scale Factor	0.999936734		
Elevation Adjust. Factor	0.9999638480		
Combined Adjust. Factor	0.9999005842		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)
Latitude	35 39 24.4622736
Longitude	93 49 45.1772616
Ellipsoid Height:	201.891
Grid Northing (Meters)	148,365.4989
Grid Easting (Meters)	234,379.5020

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 23, IN OZARK, GO NORTH ON HIGHWAY 23 FOR 14.10 MILES TO THE STATION ON THE RIGHT, 0.70 MILES SOUTH OF TURNER BEND STORE, 45 METERS SOUTH SOUTHWEST OF A GRAVEL DRIVE, EAST SOUTHEAST 9.0 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST NORTHWEST 0.70 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "240009 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	14" ELM TREE	52	17.80	58.4
MK # 2				
MK # 3				

AZ Mark Station	240009A
Geodetic Azimuth	220 04 27
Grid Azimuth	221 08 19

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY, (SC)W H PHILLIPS	ELEVATIONS DETERMINED BY 3 WIRE LEVELS USING NGS BENCH MARK W 92 BY CREW S5102 5/16/05.
Ref Mon # 2 ARHR, (SC)GAYLOR	
Ref Mon # 3 ARLR, (SC)OZARPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240009A	Date Monumented 11/17/2004	Monumented By AHTD	County FRANKLIN	Route 23	Job Number: 040441, 040621, 040815
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	148,059.5168	0.0030			
Easting (M)	234,112.2467	0.0030			
Elevation (M)*	224.926				
Northing (SFT)	485,758.5980				
Easting (SFT)	768,083.2627				
Elevation (SFT)*	737.946				

Convergence Angle	-1	3	57.9591703
Scale Factor	0.999936674		
Elevation Adjust. Factor	0.9999647029		
Combined Adjust. Factor	0.9999013792		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	STEEL T POST	20	5.50	18.0
MK # 2	STEEL T POST	238	2.40	7.9
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFS Ref Mon # 2 ARFY Ref Mon # 3 ARHR, ARRV	ELEVATION DETERMINED BY 3 WIRE LEVELS USING NGS BENCH MARK W 92 BY CREW S5102 5/16/05. LAST STATIC POSITION IN JUNE OF 2020 BY S5112 FOR JOB #040815. ELEVATIONS FROM JOB #040441 MAINTAINED. SUPERCEDED POSITIONS WERE SOMEHOW LOST. PLEASE REFER TO JOB #'s 040441 & 040621 CONTROL FILES FOR THOSE OLD POSITIONS.

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 23, IN OZARK, GO NORTH ON HIGHWAY 23 FOR 13.94 MILES TO THE STATION ON THE LEFT, WEST NORTHWEST 9.25 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST SOUTHEAST 0.90 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "240009A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	290004
Geodetic Azimuth	40 04 21
Grid Azimuth	41 08 19

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240010	Date Monumented 9/30/2013	Monumented By AHTD	County FRANKLIN	Route 72	Job Number: BR2404
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	134,658.7853	0.0040			
Easting (M)	222,856.5008	0.0040			
Elevation (M)*	212.675				
Northing (SFT)	441,793.0314				
Easting (SFT)	731,155.0364				
Elevation (SFT)*	697.752				

Convergence Angle	-1	8	12.1543715
Scale Factor	0.999936360		
Elevation Adjust. Factor	0.9999666254		
Combined Adjust. Factor	0.9999029875		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF GUARD RAIL	307	13.11	43.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SAL5	Elevation based on Static Observation from NGS 1st Order BM P 296 to AHTD GPS #240010A & then 3rd Order Digital Levels from AHTD GPS #240010A to AHTD GPS #240010 by S5112 in Nov. 2013 for Job #BR2404.
Ref Mon # 2 CTA1	
Ref Mon # 3 P777	

Vertical Determined By: 3rd Order - Digital Levels	Elevation Datum: NAVD 88
Geoid Datum: Geoid 96	Latitude 35 31 52.5976932
Longitude 93 57 12.4119324	Ellipsoid Height (M): 183.551 0.0110
Geoid Height (M): -29.091 0.0110	

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 352 AND STATE HIGHWAY 64, WEST OF OZARK, GO EAST ON HIGHWAY 64 1.7 MILES TO COUNTY ROAD 72 (PLEASANT VIEW ROAD) AND TURN LEFT (NORTH) AND GO 1.35 MILES TO THE MARK ON THE RIGHT, 172 FEET NORTH OF THE NORTH END OF THE BRIDGE OVER I 40, EAST 17 FEET OF THE CENTERLINE OF THE ROAD AND WEST 23.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2013 240010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240010A	Date Monumented 9/30/2013	Monumented By AHTD	County FRANKLIN	Route 72	Job Number: BR2404
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	134,064.0304	0.0040			
Easting (M)	222,818.3340	0.0040			
Elevation (M)*					
Northing (SFT)	439,841.7397				
Easting (SFT)	731,029.8175				
Elevation (SFT)*					

Convergence Angle	-1	8	12.7632400
Scale Factor	0.999936451		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GATE POST WITH HINGE	301	123.70	405.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SAL5	Elevation based on Static Observation from NGS 1st Order BM P 296
Ref Mon # 2 CTA1	
Ref Mon # 3 P777	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240011	Date Monumented 7/9/2015	Monumented By AHTD	County FRANKLIN	Route 23	Job Number: 040693, 012468
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	156,689.6022	0.0020			
Easting (M)	236,037.9615	0.0020			
Elevation (M)*	557.331				
Northing (SFT)	514,072.4699				
Easting (SFT)	774,401.2120				
Elevation (SFT)*	1,828.510				

Convergence Angle	-1	3	17.0913520
Scale Factor	0.999939253		
Elevation Adjust. Factor	0.9999125443		
Combined Adjust. Factor	0.9998518026		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (2011)		
Latitude	35	43	55.5126204
Longitude	93	48	45.3430188
Ellipsoid Height:	529.105		
Grid Northing (Meters)	156,689.6077		
Grid Easting (Meters)	236,037.9590		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MARKER	331	23.60	77.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY (ARM3) Ref Mon # 2 ARFS (CTA1) Ref Mon # 3 ARRV (P777)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ELEV. BY S5112 USING DIGITAL LEVELS FROM 2ND ORDER NGS BM Z 92 IN JULY 2015 FOR JOB #040693 (SLIDE AREA) ELEV. FROM DIGITAL LEVELS CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT (ELEV. DIFF. DUE ONLY TO ROUNDING ERROR).*****USE WITH CAUTION, UNSTABLE AREA***** *****SUPERCEDED GEOID 12A HT. WAS-28.2306m AND ELEV. WAS 1828.5248 US </td> </tr> </table>	Comments	ELEV. BY S5112 USING DIGITAL LEVELS FROM 2ND ORDER NGS BM Z 92 IN JULY 2015 FOR JOB #040693 (SLIDE AREA) ELEV. FROM DIGITAL LEVELS CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT (ELEV. DIFF. DUE ONLY TO ROUNDING ERROR).*****USE WITH CAUTION, UNSTABLE AREA***** *****SUPERCEDED GEOID 12A HT. WAS-28.2306m AND ELEV. WAS 1828.5248 US
Comments			
ELEV. BY S5112 USING DIGITAL LEVELS FROM 2ND ORDER NGS BM Z 92 IN JULY 2015 FOR JOB #040693 (SLIDE AREA) ELEV. FROM DIGITAL LEVELS CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT (ELEV. DIFF. DUE ONLY TO ROUNDING ERROR).*****USE WITH CAUTION, UNSTABLE AREA***** *****SUPERCEDED GEOID 12A HT. WAS-28.2306m AND ELEV. WAS 1828.5248 US			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID 18
Latitude	35 43 55.5124440
Longitude	93 48 45.3429144
Ellipsoid Height (M):	529.049 0.0080
Geoid Height (M):	-28.290 0.0080

Location Description
TO REACH THE STATION, AT THE INTERSECTION OF HIGHWAY 215 NORTH AND HIGHWAY 23, NORTH OF CASS, GO NORTH ON HIGHWAY 23 4.1 MILES TO THE MARK ON THE RIGHT, 11.0 FEET SOUTHWEST OF A WITNESS POST AND 35.4 FEET NORTHEAST OF THE CENTERLINE OF HIGHWAY 23, SET ON A 4.0 FOOT REBAR, DRIVEN BELOW THE SURFACE OF THE GROUND IS A 2 INCH ALUMINUM CAP STAMPED 240011.

AZ Mark Station	240011A
Geodetic Azimuth	
Grid Azimuth	

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240011A	Date Monumented 7/9/2015	Monumented By AHTD	County FRANKLIN	Route 23	Job Number: 040693, 012468
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	157,009.1372 0.0020
Easting (M)	236,081.2208 0.0020
Elevation (M)*	551.549
Northing (SFT)	515,120.8110
Easting (SFT)	774,543.1386
Elevation (SFT)*	1,809.542

Convergence Angle	-1 3 16.2259414
Scale Factor	0.999939383
Elevation Adjust. Factor	0.9999134514
Combined Adjust. Factor	0.9998528397

SUPERCEDED CONTROL	
Horizontal Datum	NAD 83 (2011)
Latitude	35 44 5.9055216
Longitude	93 48 43.8557832
Ellipsoid Height:	523.334
Grid Northing (Meters)	157,009.1613
Grid Easting (Meters)	236,081.2191

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	R/W MARKER	65	98.00 321.5
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY (ARM3)	ELEV. BY S5112 USING DIGITAL LEVELS FROM 2ND ORDER NGS BM Z 92 IN JULY 2015 FOR JOB #040693 (SLIDE AREA). ELEV. FROM DIGITAL LEVELS CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT (ELEV. DIFF. DUE ONLY TO ROUNDING ERROR).*****USE WITH CAUTION, UNSTABLE AREA***** *****SUPERCEDED GEOID 12A HT. WAS-28.2177m AND ELEV. WAS 1809.5478 US
Ref Mon # 2 ARFS (CTA1)	
Ref Mon # 3 ARRV (P777)	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID 18
Latitude	35 44 5.9047404
Longitude	93 48 43.8556968
Ellipsoid Height (M):	523.276 0.0080
Geoid Height (M):	-28.277 0.0080

Location Description
TO REACH THE STATION, AT THE INTERSECTION OF HIGHWAY 215 NORTH AND HIGHWAY 23, NORTH OF CASS, GO NORTH ON HIGHWAY 23 4.3 MILES TO THE MARK ON THE RIGHT, 6.2 FEET NORTHWEST OF A WITNESS POST AND 38.0 FEET SOUTHEAST OF THE CENTERLINE OF HIGHWAY 23, SET ON A 4.0 FOOT REBAR, DRIVEN BELOW THE SURFACE OF THE GROUND IS A 2 INCH ALUMINUM CAP STAMPED 240011A.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240012	Date Monumented 7/9/2015	Monumented By AHTD	County FRANKLIN	Route 23	Job Number: 040693
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	157,935.7582	0.0050			
Easting (M)	236,154.2660	0.0050			
Elevation (M)*					
Northing (SFT)	518,160.9000				
Easting (SFT)	774,782.7877				
Elevation (SFT)*					

Convergence Angle	-1	3	14.9294343
Scale Factor	0.999939777		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PARK MESSAGE BOARD/ WEST END	20	43.70	143.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARM3 Ref Mon # 2 CTA1 Ref Mon # 3 P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> *****USE WITH CAUTION, UNSTABLE AREA***** </td> </tr> </table>	Comments	*****USE WITH CAUTION, UNSTABLE AREA*****
Comments			
*****USE WITH CAUTION, UNSTABLE AREA***** 			

Vertical Determined By:

Elevation Datum:

Geoid Datum: GEOID12A

Latitude 35 44 36.0100644

Longitude 93 48 41.6276352

Ellipsoid Height (M): 516.810 0.0050

Geoid Height (M): -28.180 0.0050

Location Description

TO REACH THE STATION, AT THE INTERSECTION OF HIGHWAY 235 AND HIGHWAY 16, WEST OF ST. PAUL, GO SOUTH ON HIGHWAY 23 5.5 MILES TO THE MARK ON THE LEFT, 2.8 FEET EAST OF A WITNESS POST AND 35.0 FEET EAST OF THE CENTERLINE OF HIGHWAY 23, SET ON A 4.0 FOOT REBAR, DRIVEN BELOW THE SURFACE OF THE GROUND IS A 2 INCH ALUMINUM CAP STAMPED 240012.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240013	Date Monumented 7/9/2015	Monumented By AHTD	County FRANKLIN	Route 23	Job Number: 040693
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	158,086.0269	0.0050			
Easting (M)	236,101.7337	0.0050			
Elevation (M)*	545.150				
Northing (SFT)	518,653.9066				
Easting (SFT)	774,610.4380				
Elevation (SFT)*	1,788.545				

Convergence Angle	-1	3	16.2099411
Scale Factor	0.999939842		
Elevation Adjust. Factor	0.9999144556		
Combined Adjust. Factor	0.9998543027		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARM3	ELEV. BY S5112 USING DIGITAL LEVELS FROM 2ND ORDER NGS BM E 93 IN JULY 2015 FOR JOB #040693 (SLIDE AREA) ELEV. FROM DIGITAL LEVELS CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT (ELEV. DIFF. DUE ONLY TO ROUNDING ERROR).*****USE WITH CAUTION, UNSTABLE AREA*****
Ref Mon # 2 CTA1	
Ref Mon # 3 P777	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240014	Date Monumented 5/9/2016	Monumented By AHTD	County FRANKLIN	Route 23	Job Number: 001725_SLIDE
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	133,193.9088	0.0030			
Easting (M)	230,821.4786	0.0030			
Elevation (M)*	169.496				
Northing (SFT)	436,987.0158				
Easting (SFT)	757,286.8010				
Elevation (SFT)*	556.087				

Convergence Angle	-1	5	7.5611746
Scale Factor	0.999936571		
Elevation Adjust. Factor	0.9999734013		
Combined Adjust. Factor	0.9999099740		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UC FOC	246	50.40	165.4
MK # 2	S END CB ISLAND	23	39.50	129.6
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM S 92 BY S5112 IN MAY 2016 FOR SLIDE AREA ON I-40 WB. *COULD NOT GET CHECK BETWEEN TTS 24 H & S 92 BUT VERIFIED S 92 WAS GOOD BY CONSTRAINING ORTHOMETRIC HTS. ON ARFY, ARHR & ARLR.
Ref Mon # 2 ARLR	
Ref Mon # 3 ARHR	

Location Description
TO REACH THE STA FROM JCT OF I-40 AND SR-23 (EXIT 35) N OF OZARK, GO S ON SR-23 0.15 MI TO STA ON RIGHT AT THE S END OF PAVED APRON, 26.5' W OF C/L. THE STA IS A 2 1/2" ALUM CAP STAMPED "240014 2016" SET ON TOP OF A 4' RBR AND DRIVEN BELLOW SURFACE OF THE GROUND.

AZ Mark Station	240014A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240014A	Date Monumented 5/9/2016	Monumented By AHTD	County FRANKLIN	Route 23	Job Number: 001725_SLIDE
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	133,697.5531	0.0030			
Easting (M)	230,901.0196	0.0030			
Elevation (M)*	160.747				
Northing (SFT)	438,639.3888				
Easting (SFT)	757,547.7618				
Elevation (SFT)*	527.385				

Convergence Angle	-1	5	5.9446937
Scale Factor	0.999936485		
Elevation Adjust. Factor	0.9999747741		
Combined Adjust. Factor	0.9999112607		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	S END 18" RCP		353	31.00	101.7
MK # 2	FH		60	47.00	154.2
MK # 3	NW COR. BLOCK BU		88	52.50	172.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 ARLR Ref Mon # 3 ARHR	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM S 92 BY S5112 IN MAY 2016 FOR SLIDE AREA ON I-40 WB. *COULD NOT GET CHECK BETWEEN TTS 24 H & S 92 BUT VERIFIED S 92 WAS GOOD BY CONSTRAINING ORTHOMETRIC HTS. ON ARFY, ARHR & ARLR.

Location Description	
TO REACH THE STA FROM JCT OF I-40 AND SR-23 (EXIT 35) N OF OZARK, GO N ON SR-23 0.15 MI TO STA ON RIGHT, 42'E OF C/L. THE STA IS A 2 1/2" ALUM CAP STAMPED "240014A 2016" SET ON TOP OF A 4' RBR AND DRIVEN BELOW SURFACE OF THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240015	Date Monumented 1/6/2020	Monumented By ARDOT	County FRANKLIN	Route IRE ROA	Job Number: BR7615
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	134,770.1569	0.0030			
Easting (M)	215,465.9152	0.0030			
Elevation (M)*					
Northing (SFT)	442,158.4231				
Easting (SFT)	706,907.7568				
Elevation (SFT)*					

Convergence Angle	-1	11	2.8882471
Scale Factor	0.999936366		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	90	30.48	100.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	
Ref Mon # 2 ARFS	
Ref Mon # 3 ARFY, ARRV	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	35 31 51.3541200
Longitude	94 2 5.8199604
Ellipsoid Height (M):	94.268 0.0120
Geoid Height (M):	-29.147 0.0120

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 215 AND I 40, NORTH OF MULBERRY, GO NORTH ON HIGHWAY 215 0.15 MILES TO WIRE ROAD AND TURN RIGHT (EAST) AND GO 0.75 MILES TO THE MARK ON THE RIGHT, SOUTH OF THE C/L OF THE ROAD 20'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 240015" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240015A	Date Monumented 1/6/2020	Monumented By ARDOT	County FRANKLIN	Route IRE ROA	Job Number: BR7615
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	134,764.2242	0.0030	
Easting (M)	215,954.1777	0.0030	
Elevation (M)*	128.444		
Northing (SFT)	442,138.9589		
Easting (SFT)	708,509.6647		
Elevation (SFT)*	421.402		

Convergence Angle	-1	10	51.6093585
Scale Factor	0.999936365		
Elevation Adjust. Factor	0.9999798434		
Combined Adjust. Factor	0.9999162097		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	FENCE CORNER	99	15.85	52.0	240015
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	ELEVATION BASED ON DIGITAL LEVELS FROM ARDOT GPS POINT #240015 WHICH IS BASED ON GNSS STATIC DERIVED ELEVATION CONSTRAINING ARDOT CORS SITES ARFS, ARFY & ARRV
Ref Mon # 2 ARFS	
Ref Mon # 3 ARFY, ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240016	Date Monumented 1/9/2020	Monumented By ARDOT	County FRANKLIN	Route 186	Job Number: 040780
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	124,934.9202	0.0020			
Easting (M)	240,085.1481	0.0020			
Elevation (M)*					
Northing (SFT)	409,890.6507				
Easting (SFT)	787,679.3567				
Elevation (SFT)*					

Convergence Angle	-1	1	30.2302882
Scale Factor	0.999938807		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	134	16.61	54.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	
Ref Mon # 2 ARFS	
Ref Mon # 3 ARFY, ARRV	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 26 47.6679408
Longitude	93 45 41.7010104
Ellipsoid Height (M):	135.677 0.0090
Geoid Height (M):	-29.335 0.0090

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 186 AND 64, IN ALTUS, GO WEST ON HIGHWAY 64 131' TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF THE HIGHWAY 28'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 240016" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240016A	Date Monumented 1/9/2020	Monumented By ARDOT	County FRANKLIN	Route 186	Job Number: 040780
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	124,976.2144	0.0020			
Easting (M)	240,513.8293	0.0020			
Elevation (M)*					
Northing (SFT)	410,026.1301				
Easting (SFT)	789,085.7883				
Elevation (SFT)*					

Convergence Angle	-1	1	20.3570498
Scale Factor	0.999938789		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	
Ref Mon # 2 ARFS	
Ref Mon # 3 ARFY, ARRV	

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	26	49.2562212
Longitude	93	45	24.7337424
Ellipsoid Height (M):	130.893	0.0090	
Geoid Height (M):	-29.331	0.0090	

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 186 AND 64, IN ALTUS, GO EAST ON HIGHWAY 64 0.25 MILES' TO THE MARK ON THE LEFT, NORTH OF THE C/L OF THE HIGHWAY 29.4' AND 76' WEST OF MT. BETHEL DR. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 240016A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240017	Date Monumented 5/18/2020	Monumented By ARDOT	County FRANKLIN	Route 22	Job Number: 040874
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	108,732.6446	0.0030			
Easting (M)	212,855.9937	0.0030			
Elevation (M)*					
Northing (SFT)	356,733.6848				
Easting (SFT)	698,345.0393				
Elevation (SFT)*					

Convergence Angle	-1	11	50.5938182		
Scale Factor	0.999948535				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 217 AND STATE HIGHWAY 22, IN CHARLESTON, GO WEST ON HIGHWAY 22 1.05 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF THE HIGHWAY 28.4". THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 240017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	END OF GUARD RAIL	340		2.38	7.8
MK # 2	COMBINATION POLE W/GUY	202		12.19	40.0
MK # 3	CENTER OF GATE	142		10.49	34.4

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARDQ</p> <p>Ref Mon # 2 ARFS</p> <p>Ref Mon # 3 ARFY,ARRV</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240017A	Date Monumented 5/18/2020	Monumented By ARDOT	County FRANKLIN	Route 22	Job Number: 040874
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	108,874.0803	0.0030			
Easting (M)	213,317.1874	0.0030			
Elevation (M)*					
Northing (SFT)	357,197.7118				
Easting (SFT)	699,858.1390				
Elevation (SFT)*					

Convergence Angle	-1	11	40.0418694		
Scale Factor	0.999948416				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 217 AND STATE HIGHWAY 22, IN CHARLESTON, GO WEST ON HIGHWAY 22 0.75 MILES TO THE MARK ON THE RIGHT, NORTH OF THE C/L OF THE HIGHWAY 50' AND 22.1' EAST OF THE C/L OF PARKS DRIVE.'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 240017A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	COMBINATION POLE W/ LIGHT		323	21.90	71.9
MK # 2	FENCE CORNER		278	48.50	159.1
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ Ref Mon # 2 ARFS Ref Mon # 3 ARFY, ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240018	Date Monumented 6/10/2020	Monumented By ARDOT	County FRANKLIN	Route 23	Job Number: 040815
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	137,658.5406	0.0020			
Easting (M)	231,096.3662	0.0020			
Elevation (M)*					
Northing (SFT)	451,634.7286				
Easting (SFT)	758,188.6614				
Elevation (SFT)*					

Convergence Angle	-1	5	3.1646692
Scale Factor	0.999936026		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 352E, NORTH OF OZARK, GO NORTH ON HIGHWAY 23 1.05 MILES TO THE MARK ON THE RIGHT, 31.4' EAST OF THE C/L OF THE HIGHWAY AND 10.5' NORTH OF THE C/L OF A PRIVATE DRIVEWAY. THE MARK IS 2" CAP STAMPED "2020 240018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	51	4.18	13.7
MK # 2	FENCE CORNER	136	7.89	25.9
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARFS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARHR, ARRV</td> </tr> </table>	Ref Mon # 1	ARFS	Ref Mon # 2	ARFY	Ref Mon # 3	ARHR, ARRV	<table border="1" style="width: 100%; height: 100px;"> <tr> <td style="text-align: center;">Comments</td> </tr> </table>	Comments
Ref Mon # 1	ARFS							
Ref Mon # 2	ARFY							
Ref Mon # 3	ARHR, ARRV							
Comments								

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240018A	Date Monumented 6/10/2020	Monumented By ARDOT	County FRANKLIN	Route 23	Job Number: 040815
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	138,065.5968	0.0020			
Easting (M)	231,129.0668	0.0020			
Elevation (M)*					
Northing (SFT)	452,970.2122				
Easting (SFT)	758,295.9467				
Elevation (SFT)*					

Convergence Angle	-1	5	2.5871311
Scale Factor	0.999936001		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS VENT PIPE	64	13.32	43.7
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFS	
Ref Mon # 2 ARFY	
Ref Mon # 3 ARHR, ARRV	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 33 48.3262632
Longitude	93 51 46.6385616
Ellipsoid Height (M):	143.139 0.0060
Geoid Height (M):	-28.970 0.0060

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 352E, NORTH OF OZARK, GO NORTH ON HIGHWAY 23 1.25 MILES TO THE MARK ON THE LEFT, 55.8' WEST OF THE C/L OF THE HIGHWAY AND 156.6' NORTH OF THE C/L OF MATTOX ROAD. THE MARK IS 2 1/2" CAP STAMPED "2020 240018A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250001	Date Monumented 1/11/1998	Monumented By AHTD	County FULTON	Route 342	Job Number: 050063,050230
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	237,565.0751	
Easting (M)	443,071.7850	
Elevation (M)*	184.390	
Northing (SFT)	779,411.4172	
Easting (SFT)	1,453,644.6813	
Elevation (SFT)*	604.952	

Convergence Angle	0	16	46.7188506
Scale Factor	1.000056343		
Elevation Adjust. Factor	0.9999710641		
Combined Adjust. Factor	1.0000274055		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	IRON PIPE GATE POST	183	2.76	9.0
MK # 2	IRON PIPE GATE POST	213	11.58	38.0
MK # 3	NORTH END CMP	290	5.57	18.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 FAA 7M9 A Ref Mon # 2 OR-01 Ref Mon # 3 Q 313	Elevation was est. by crew S5102 in July 2010 from NGS marks L 308, M 308, and N 308.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250001A	Date Monumented 1/11/1998	Monumented By AHTD	County FULTON	Route 63	Job Number: 050063,050230
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - 3 Wire Level
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 237,449.2992		Latitude 36 28 21.2120148
Easting (M) 443,416.5390		Longitude 91 30 56.1180960
Elevation (M)* 190.874		Ellipsoid Height (M): 162.485
Northing (SFT) 779,031.5758		Geoid Height (M): -28.413
Easting (SFT) 1,454,775.7617		
Elevation (SFT)* 626.225		

Convergence Angle	0	16	54.7633593
Scale Factor	1.000056056		
Elevation Adjust. Factor	0.9999700466		
Combined Adjust. Factor	1.0000261009		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	GUY POLE	271	20.70	67.9	AZ Mark Station 250001
MK # 2	NONE				Geodetic Azimuth 288 50 42.34097
MK # 3	NONE				Grid Azimuth 288 33 47.49091

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 FAA 7M9 A	Elevation was est. by crew S5102 in July 2010 from NGS marks L 308, M 308, and N 308.
Ref Mon # 2 OR-01	
Ref Mon # 3 Q 313	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250002	Date Monumented 1/11/1998	Monumented By AHTD	County FULTON	Route 63	Job Number: 012157,050063
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	235,774.6246	
Easting (M)	445,248.0152	
Elevation (M)*		
Northing (SFT)	773,537.2475	
Easting (SFT)	1,460,784.5299	
Elevation (SFT)*		

Convergence Angle	0	17	37.3685871
Scale Factor	1.000051980		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	27	26.5870944
Longitude	91	29	42.9009972
Ellipsoid Height:	182.996		
Grid Northing (Meters)	235,774.6091		
Grid Easting (Meters)	445,248.0040		

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 342, LOCATED ABOUT 3.48 KM (2.16 MI) SOUTH OF THE ARKANSAS/ MISSOURI STATE LINE AT MAMMOTH SPRINGS, GO SOUTH ON U.S. HIGHWAY 63 FOR 3.22 KM (2.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 49.168 METERS SOUTH OF THE CENTER OF A PAVED ROAD LEADING TO WIRTH, 13.728 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "250002 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	POWER POLE	359	29.46	96.6		250002A
MK # 2	NONE					171 04 48.69138
MK # 3	NONE					170 47 11.33925

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 FAA 7M9 A	ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING FROM NGS BM Q 308.
Ref Mon # 2 OR-01	
Ref Mon # 3 Q 313	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250002A	Date Monumented 1/11/1998	Monumented By AHTD	County FULTON	Route 63	Job Number: 050063
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	235,357.6392	
Easting (M)	445,315.6390	
Elevation (M)*	218.810	
Northing (SFT)	772,169.1879	
Easting (SFT)	1,461,006.3923	
Elevation (SFT)*	717.879	

Convergence Angle	0	17	38.8987901
Scale Factor	1.000050981		
Elevation Adjust. Factor	0.9999656628		
Combined Adjust. Factor	1.0000166420		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END CMP	303	4.85	15.9
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	OR-01
Ref Mon # 3	Q 313

Comments

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 27 13.0493988
Longitude	91 29 40.2708768
Ellipsoid Height (M):	190.434
Geoid Height (M):	-28.388

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 342, LOCATED ABOUT 3.48 KM (2.16 MI) SOUTH OF THE ARKANSAS/ MISSOURI STATE LINE AT MAMMOTH SPRINGS, GO SOUTH ON U.S. HIGHWAY 63 FOR 3.64 KM (2.26 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.60 METERS NORTH OF THE CENTER OF A GRAVEL ROAD, 13.10 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "250002A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	250002
Geodetic Azimuth	351 04 50.25421
Grid Azimuth	350 47 11.33925

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250003	Date Monumented 6/7/2001	Monumented By AHTD	County FULTON	Route 62	Job Number: 050098
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 224,440.0092		Latitude 36 21 21.9634632
Easting (M) 419,262.0095		Longitude 91 47 7.4501088
Elevation (M)* 200.025		Ellipsoid Height (M): 171.809
		Geoid Height (M): -28.216

Northing (SFT) 736,350.2635		
Easting (SFT) 1,375,528.7762		
Elevation (SFT)* 656.249		

Convergence Angle 0 7 29.5461081		
Scale Factor 1.000026579		
Elevation Adjust. Factor 0.9999686105		
Combined Adjust. Factor 0.9999951887		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
<p>TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 20.841 KM (12.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 24.60 METERS WEST OF THE CENTER LINE OF A PAVED DRIVE, 19.80 METERS NORTH OF THE CENTER LINE OF U.S. HIGHWAY 62/412 AND 1.78 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 250003 2001" SET ON TOP OF AN IRON ROD 1.00 METER LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL, RUN BY CREW S5103 FROM USC&GS BENCH MARK B 40. THE SHOT DISTANCE IS 539.436 METERS.</p>				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	EAST END CONCRETE HEADWALL	249	23.20	76.1	AZ Mark Station 250003A
MK # 2	TREATED WOODEN CORNER POST	76	6.20	20.3	Geodetic Azimuth 273 07 59.52441
MK # 3	BRICK GATE POST	90	21.00	68.9	Grid Azimuth 273 00 29.86052

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 FAA 7M9 A</p> <p>Ref Mon # 2 330001</p> <p>Ref Mon # 3 CHERPORT AZ MK</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250003A	Date Monumented 6/7/2001	Monumented By AHTD	County FULTON	Route 62	Job Number: 050098
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	224,468.3191	
Easting (M)	418,723.3169	
Elevation (M)*	200.105	
Northing (SFT)	736,443.1436	
Easting (SFT)	1,373,761.4155	
Elevation (SFT)*	656.511	

Convergence Angle	0	7	16.9752790
Scale Factor	1.000026642		
Elevation Adjust. Factor	0.9999685980		
Combined Adjust. Factor	0.9999952392		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN GATE POST	75	6.30	20.7
MK # 2	0.35 METER DIAMETER CEDAR FENCE POS	276	16.20	53.1
MK # 3	POWER POLE	278	19.00	62.3

Area Reference Monuments (used for Processing) Ref Mon # 1 FAA 7M9 A Ref Mon # 2 330001 Ref Mon # 3 CHERPORT AZ MK	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description	
TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 21.388 KM (13.29MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.30 METERS NORTH OF THE CENTER LINE OF U.S. HIGHWAY 62/412 AND 1.52 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "250003A 2001" SET ON TOP OF AN IRONROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&GS BENCH MARK B 40. THE SHOT DISTANCE IS 539.436 METERS.	

AZ Mark Station	250003
Geodetic Azimuth	93 07 46.718000
Grid Azimuth	93 00 29.860517

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250004	Date Monumented 6/7/2001	Monumented By AHTD	County FULTON	Route 62	Job Number: 050098
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	219,543.1658	
Easting (M)	421,022.3206	
Elevation (M)*	244.311	
Northing (SFT)	720,284.5365	
Easting (SFT)	1,381,304.0635	
Elevation (SFT)*	801.544	

Convergence Angle	0	8	10.3572631
Scale Factor	1.000016488		
Elevation Adjust. Factor	0.9999616611		
Combined Adjust. Factor	0.9999781485		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 15.160 KM (9.42MI). TO THE STATION ON THE RIGHT. THE STATION IS 27.00 METERS EAST OF THE CENTER LINE OF A GRAVEL DRIVE, 18.40 METERS WEST OF THE CENTER LINE OF A GRAVEL DRIVE, 10.90 METERS NORTHEAST OF THE CENTER LINE OF U.S. HIGHWAY 62/412 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED ' 250004 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&GS BENCH MARK D 40 RESET. THE SHOT DISTANCE IS 612.448.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CORRIGATED METAL PIPE	146	15.20	49.9	
MK # 2	LIGHT POLE	95	25.25	82.8	
MK # 3	NONE				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 FAA 7M9 A</p> <p>Ref Mon # 2 330001</p> <p>Ref Mon # 3 CHERPORT AZ MK</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250004A	Date Monumented 6/7/2001	Monumented By AHTD	County FULTON	Route 62	Job Number: 050098
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	219,029.9888	
Easting (M)	421,356.5810	
Elevation (M)*	247.655	
Northing (SFT)	718,600.8883	
Easting (SFT)	1,382,400.7162	
Elevation (SFT)*	812.515	

Convergence Angle	0	8	18.1251340
Scale Factor	1.000015464		
Elevation Adjust. Factor	0.9999611364		
Combined Adjust. Factor	0.9999765998		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	329	4.20	13.8
MK # 2	CROSS TIE CORNER POST	328	25.00	82.0
MK # 3	EAST END CORRIGATED METAL PIPE	311	34.90	114.5

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>FAA 7M9 A</td> </tr> <tr> <td>Ref Mon # 2</td> <td>330001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>CHERPORT AZ MK</td> </tr> </table>	Ref Mon # 1	FAA 7M9 A	Ref Mon # 2	330001	Ref Mon # 3	CHERPORT AZ MK	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	FAA 7M9 A						
Ref Mon # 2	330001						
Ref Mon # 3	CHERPORT AZ MK						

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 18 26.2962936
Longitude	91 45 43.9665228
Ellipsoid Height (M):	219.532
Geoid Height (M):	-28.123

Location Description
TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 14.548 KM (9.04 MI) . TO THE STATION ON THE RIGHT. THE STATION IS 18.35 METERS NORTH OF THE CENTER LINE OF U.S. HIGHWAY 62/412 AND 0.41 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED 250004A 2001 SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&GS BENCH MARK D 40 RESET. THE SHOT DISTANCE IS 612.448 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250005	Date Monumented 6/7/2001	Monumented By AHTD	County FULTON	Route 62	Job Number: 050098
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 216,722.6222		Latitude 36 17 11.1042096
Easting (M) 425,283.3351		Longitude 91 43 6.8360124
Elevation (M)* 223.926		Ellipsoid Height (M): 195.829
Northing (SFT) 711,030.8030		Geoid Height (M): -28.097
Easting (SFT) 1,395,283.7419		
Elevation (SFT)* 734.664		

Convergence Angle	0	9	49.5592409
Scale Factor	1.000010929		
Elevation Adjust. Factor	0.9999648599		
Combined Adjust. Factor	0.9999757886		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station 250005A
MK # 2	NONE				Geodetic Azimuth 275 51 26.12247
MK # 3	NONE				Grid Azimuth 275 41 36.44883

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>FAA 7M9 A</td> </tr> <tr> <td>Ref Mon # 2</td> <td>330001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>CHERPORT AZ MK</td> </tr> </table>	Ref Mon # 1	FAA 7M9 A	Ref Mon # 2	330001	Ref Mon # 3	CHERPORT AZ MK	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	FAA 7M9 A						
Ref Mon # 2	330001						
Ref Mon # 3	CHERPORT AZ MK						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250005A	Date Monumented 6/7/2001	Monumented By AHTD	County FULTON	Route 62	Job Number: 050098
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	216,779.9935	
Easting (M)	424,707.8843	
Elevation (M)*	221.823	
Northing (SFT)	711,219.0287	
Easting (SFT)	1,393,395.7837	
Elevation (SFT)*	727.764	

Convergence Angle	0	9	36.1446326
Scale Factor	1.000011043		
Elevation Adjust. Factor	0.9999651899		
Combined Adjust. Factor	0.9999762326		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	119	5.05	16.6
MK # 2	EAST GATE POST	252	5.60	18.4
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>FAA 7M9 A</td> </tr> <tr> <td>Ref Mon # 2</td> <td>330001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>CHERPORT AZ MK</td> </tr> </table>	Ref Mon # 1	FAA 7M9 A	Ref Mon # 2	330001	Ref Mon # 3	CHERPORT AZ MK	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	FAA 7M9 A							
Ref Mon # 2	330001							
Ref Mon # 3	CHERPORT AZ MK							
Comments								

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 36 17 13.0182252

Longitude 91 43 29.8891632

Ellipsoid Height (M): 193.727

Geoid Height (M): -28.096

Location Description

TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 10.396 KM (6.46MI), TO THE STATION ON THE LEFT. THE STATION IS 17.00 METER SOUTH OF THE CENTER LINE OF U.S. HIGHWAY 62/412, 9.00 METERS EAST OF THE CENTER LINE OF A PASTURE ENTRANCE, AND 1.45 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "250005A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&GS BENCH MARK F 40 RESET. THE SHOT DISTANCE IS 578.317 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250006	Date Monumented 6/7/2001	Monumented By AHTD	County FULTON	Route 62	Job Number: 050098
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	214,578.9769	
Easting (M)	429,620.0213	
Elevation (M)*	255.363	
Northing (SFT)	703,997.8600	
Easting (SFT)	1,409,511.6865	
Elevation (SFT)*	837.803	

Convergence Angle	0	11	30.5144695
Scale Factor	1.000006828		
Elevation Adjust. Factor	0.9999599268		
Combined Adjust. Factor	0.9999667546		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	272	25.50	83.7
MK # 2	BENCH MARK K 40 RESET 1955	279	33.70	110.6
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>FAA 7M9 A</td> </tr> <tr> <td>Ref Mon # 2</td> <td>330001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>CHERPORT AZ MK</td> </tr> </table>	Ref Mon # 1	FAA 7M9 A	Ref Mon # 2	330001	Ref Mon # 3	CHERPORT AZ MK	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	FAA 7M9 A							
Ref Mon # 2	330001							
Ref Mon # 3	CHERPORT AZ MK							
Comments								

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 36 16 1.1224884

Longitude 91 40 13.3433508

Ellipsoid Height (M): 227.283

Geoid Height (M): -28.079

Location Description

TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 4.957 KM (3.08 MI) TO THE STATION ON LEFT. THE STATION IS 15.06 METERS SOUTH OF THE CENTER LINE OF U.S. HIGHWAY 62/412 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "250006 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&GS BENCH MARK K 40 RESET. THE SHOT DISTANCE IS 427.792.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250006A	Date Monumented 6/7/2001	Monumented By AHTD	County FULTON	Route 62	Job Number: 050098
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	214,740.7796	
Easting (M)	429,224.0213	
Elevation (M)*	251.524	
Northing (SFT)	704,528.7077	
Easting (SFT)	1,408,212.4765	
Elevation (SFT)*	825.208	

Convergence Angle	0	11	21.2952768
Scale Factor	1.000007134		
Elevation Adjust. Factor	0.9999605292		
Combined Adjust. Factor	0.9999676630		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END CORRIGATED METAL PIPE	25	9.05	29.7
MK # 2	POWER POLE	146	15.70	51.5
MK # 3	WESTERN BRACE POST	267	3.85	12.6

Area Reference Monuments (used for Processing) Ref Mon # 1 FAA 7M9 A Ref Mon # 2 330001 Ref Mon # 3 CHERPORT AZ MK	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 16 6.4145064
Longitude	91 40 29.1866340
Ellipsoid Height (M):	223.444
Geoid Height (M):	-28.079

Location Description
TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 5.375 KM (3.34 MI), TO THE STATION ON THE LEFT. THE STATION IS 17.30 METERS SOUTH OF THE CENTER LINE OF U.S. HIGHWAY 62/412, 6.50 METERS WEST OF PASTURE ENTRANCE AND 1.85 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "250006A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&GS BENCH MARK K 40 RESET. THE SHOT DISTANCE IS 427.792.

AZ Mark Station	250006
Geodetic Azimuth	112 24 49.67773
Grid Azimuth	112 13 28.45900

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250007	Date Monumented 6/7/2001	Monumented By AHTD	County FULTON	Route 62	Job Number: 050098
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 213,328.7246		Latitude 36 15 20.0735928
Easting (M) 433,811.8820		Longitude 91 37 25.5992052
Elevation (M)* 221.232		Ellipsoid Height (M): 193.133
Northing (SFT) 699,895.9906		Geoid Height (M): -28.099
Easting (SFT) 1,423,264.4829		
Elevation (SFT)* 725.825		

Convergence Angle 0 13 8.1246415	Location Description
Scale Factor 1.000004476	<p>TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 0.515 KM (0.32 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.30 METER NORTHEAST OF THE CENTER LINE OF U.S. HIGHWAY 62/412 AND 1.34 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "250007 2001" SET ON TOP OF AN IRON ROD 0.61 METER LONG AND DRIVE FLUSH WITH THE GROUND. THE ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&GS BENCH MARK H 167. THE SHOT DISTANCE IS 576.457 METERS.</p>
Elevation Adjust. Factor 0.9999652827	
Combined Adjust. Factor 0.9999697585	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station 250007A
MK # 2	NONE				Geodetic Azimuth 311 19 20.18991
MK # 3	NONE				Grid Azimuth 311 06 11.98285

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 FAA 7M9 A	
Ref Mon # 2 330001	
Ref Mon # 3 CHERPORT AZ MK	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250007A	Date Monumented 6/7/2001	Monumented By AHTD	County FULTON	Route 62	Job Number: 050098
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	213,707.6912	
Easting (M)	433,377.5154	
Elevation (M)*	219.398	
Northing (SFT)	701,139.3169	
Easting (SFT)	1,421,839.3984	
Elevation (SFT)*	719.808	

Convergence Angle	0	12	58.0333620
Scale Factor	1.000005180		
Elevation Adjust. Factor	0.9999655705		
Combined Adjust. Factor	0.9999707503		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	BRACE POST	11	3.80	12.5
MK # 2	BRACE POST	78	3.45	11.3
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>FAA 7M9 A</td> </tr> <tr> <td>Ref Mon # 2</td> <td>330001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>CHERPORT AZ MK</td> </tr> </table>	Ref Mon # 1	FAA 7M9 A	Ref Mon # 2	330001	Ref Mon # 3	CHERPORT AZ MK	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	FAA 7M9 A							
Ref Mon # 2	330001							
Ref Mon # 3	CHERPORT AZ MK							
Comments								

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 36 15 32.4217656

Longitude 91 37 42.9411792

Ellipsoid Height (M): 191.297

Geoid Height (M): -28.101

Location Description

TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 1.078 KM (0.67 MI) TO THE STATION ON THE RIGHT. THE STATION IS 29.40 METERS EAST OF THE CENTER LINE OF STATE HIGHWAY 289 NORTH, 16.00 METERS NORTHEAST OF THE CENTER LINE OF U.S. HIGHWAY 62/412 AND 2.10 METERS SOUTHWEST OF WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 250007A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&GS BENCH MARK H 167. THE SHOT DISTANCE IS 576.457 METERS.

AZ Mark Station	250007
Geodetic Azimuth	131 19 09.93365
Grid Azimuth	131 06 11.98285

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250008	Date Monumented 1/10/2003	Monumented By AHTD	County FULTON	Route 62	Job Number: 050142
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	228,163.6121	
Easting (M)	391,295.6230	
Elevation (M)*	247.953	
Northing (SFT)	748,566.7840	
Easting (SFT)	1,283,775.7231	
Elevation (SFT)*	813.491	

Convergence Angle	0	3	23.2328500
Scale Factor	1.000034683		
Elevation Adjust. Factor	0.9999610897		
Combined Adjust. Factor	0.9999957713		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	10" HICKORY	217	17.60	57.7
MK # 2				
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>AHTD PAR1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD HAR1</td> </tr> <tr> <td>Ref Mon # 3</td> <td>BUTLER</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	AHTD PAR1	Ref Mon # 2	AHTD HAR1	Ref Mon # 3	BUTLER	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3-WIRE BY S5101 FROM NGS R 38</td> </tr> </table>	Comments	ELEVATION BY 3-WIRE BY S5101 FROM NGS R 38
Area Reference Monuments (used for Processing)											
Ref Mon # 1	AHTD PAR1										
Ref Mon # 2	AHTD HAR1										
Ref Mon # 3	BUTLER										
Comments											
ELEVATION BY 3-WIRE BY S5101 FROM NGS R 38											

Location Description	
TO REACH FROM THE INTERSECTIONS OF U.S. STATE HIGHWAY 62 AND STATE HIGHWAY 223, IN VIOLA , GO WEST ON HIGHWAY 62 6.8 MILES TO THE STATION ON THE RIGHT. 11.75 METERS NORTH WEST OF THE CENTER OF THE HIGHWAY AND 0.50 METERS SOUTH EAST OF A WITNESS POST. A STANDARD 64mm CAP STAMPED "250008 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250008A	Date Monumented 1/10/2003	Monumented By AHTD	County FULTON	Route N/A	Job Number: 050142
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	227,566.1450	
Easting (M)	391,388.5240	
Elevation (M)*	250.748	
Northing (SFT)	746,606.5941	
Easting (SFT)	1,284,080.5158	
Elevation (SFT)*	822.663	

Convergence Angle	0	3	21.0501683
Scale Factor	1.000033365		
Elevation Adjust. Factor	0.9999606510		
Combined Adjust. Factor	0.9999940147		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN GATE POST	195	5.10	16.7
MK # 2	WOODEN GATE POST	139	12.50	41.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD PAR1	ELEVATION BY 3-WIRE BY S5101 FROM NGS R 38
Ref Mon # 2 AHTD HAR1	
Ref Mon # 3 BUTLER	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250009	Date Monumented 1/10/2003	Monumented By AHTD	County FULTON	Route 62	Job Number: 050142, 050422
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	229,021.6398 0.0030
Easting (M)	397,674.1220 0.0030
Elevation (M)*	278.855

Northing (SFT)	751,381.8299
Easting (SFT)	1,304,702.5153
Elevation (SFT)*	914.877

Convergence Angle	0 0 54.3107069
Scale Factor	1.000036600
Elevation Adjust. Factor	0.9999562405
Combined Adjust. Factor	0.9999928389

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)
Latitude	36 23 51.2681748
Longitude	92 1 33.3326208
Ellipsoid Height:	250.516
Grid Northing (Meters)	229,021.6221
Grid Easting (Meters)	397,674.1450

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	105	17.80	58.4
MK # 2	WOODEN FENCE POST	269	5.25	17.2
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT, ARHR (AHTD PAR1)	ELEVATION BY 3-WIRE BY S5101 FROM NGS R 38 IN 2020 FOR JOB #050422. LEVELED ELEV. FROM R 38 HELD AS CONSTRAINT IN FINAL NETWORK ADJUSTMENT. ***NOTE SUPERCEDED GEOID HEIGHT -28.218
Ref Mon # 2 ARJB, ARM3 (AHTD HAR1)	
Ref Mon # 3 MOAT (BUTLER)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250009A	Date Monumented 1/10/2003	Monumented By AHTD	County FULTON	Route 62	Job Number: 050142, 050422
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	228,997.2957	0.0030			
Easting (M)	398,172.7496	0.0030			
Elevation (M)*	256.099				

Northing (SFT)	751,301.9610				
Easting (SFT)	1,306,338.4293				
Elevation (SFT)*	840.217				

Convergence Angle	0	0	42.6673230		
Scale Factor	1.000036546				
Elevation Adjust. Factor	0.9999598114				
Combined Adjust. Factor	0.9999963559				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (1997)				
Latitude	36	23	50.4827520		
Longitude	92	1	13.3250052		
Ellipsoid Height:	227.778				
Grid Northing (Meters)	228,997.2941				
Grid Easting (Meters)	398,172.7310				

Location Description					
<p>TO REACH THE STATION FROM THE INTERSECTIONS OF U.S. STATE HIGHWAY 62 AND 223, IN VIOLA, GO WEST ON 62 2.3 MILES TO THE STATION ON THE RIGHT, 11.6 METERS NORTH OF THE CENTER OF THE HIGHWAY, 1.10 METERS SOUTH OF A FENCE CORNER AND 0.85 SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "250009A 2003" ON TOP OF A 0.80 IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	CONC RIGHT WAY MARKER	90		6.50	21.3
MK # 2	SOUTH WEST CORNER TRAILER HOUSE	315		27.50	90.2
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARBT, ARHR (AHTD PAR1)</p> <p>Ref Mon # 2 ARJB, ARM3 (AHTD HAR1)</p> <p>Ref Mon # 3 MOAT (BUTLER)</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BY 3-WIRE BY S5101 FROM NGS R 38 IN 2020 FOR JOB #050422. LEVELED ELEV. FROM R 38 HELD AS CONSTRAINT IN FINAL NETWORK ADJUSTMENT. <div style="text-align: right;">***NOTE</div> SUPERCEDED GEOID HEIGHT -28.217</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250010	Date Monumented 1/13/2003	Monumented By AHTD	County FULTON	Route 62	Job Number: 050142
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	229,049.8351	
Easting (M)	394,560.0760	
Elevation (M)*	260.848	
Northing (SFT)	751,474.3340	
Easting (SFT)	1,294,485.8493	
Elevation (SFT)*	855.798	

Convergence Angle	0	2	7.0260221
Scale Factor	1.000036660		
Elevation Adjust. Factor	0.9999590661		
Combined Adjust. Factor	0.9999957246		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE WITH GUY	145	11.50	37.7	
MK # 2	TRANSMISSION POLE	190	29.50	96.8	
MK # 3	TELEPHONE RISER	55	3.15	10.3	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD PAR1 Ref Mon # 2 AHTD HAR1 Ref Mon # 3 BUTLER	ELEVATION BY 3-WIRE BY S5101 FROM NGS R 38

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 23 52.1390292
Longitude	92 3 38.2956048
Ellipsoid Height (M):	232.590
Geoid Height (M):	-28.224

Location Description
TO REACH THE STATION FROM THE INTERSECTIONS OF U.S. STATE HIGHWAY 62 AND 223, IN VIOLA, GO WEST ON 62 4.66 MILES TO THE STATION ON THE LEFT. 14.2 METERS SOUTH OF THE CENTER OF THE HIGHWAY, 7.0 METERS EAST OF A POWER LINE ACESS ROAD, 14.9 METERS NORTH OF A GRAVEL DRIVE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "250010 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250011	Date Monumented 6/27/2010	Monumented By AHTD	County Fulton	Route 63	Job Number: 050230
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	239,836.2031	
Easting (M)	441,543.6750	
Elevation (M)*	156.053	
Northing (SFT)	786,862.6097	
Easting (SFT)	1,448,631.2071	
Elevation (SFT)*	511.983	

Convergence Angle	0	16	11.2527556
Scale Factor	1.000061978		
Elevation Adjust. Factor	0.9999755108		
Combined Adjust. Factor	1.0000374873		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Southeast corner of a bridge	343	36.88	121.0
MK # 2	South end of a guard rail	178	25.30	83.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 MONA Ref Mon # 3 MOWS	Elevation was est. by crew S5102 in July 2010 from NGS marks L 308, M 308, and N 308.

Vertical Determined By: 3rd Order - 3 Wire Level	
Elevation Datum: NAVD 88	
Geoid Datum:	
Latitude	36 29 38.9344740
Longitude	91 32 10.8915432
Ellipsoid Height (M):	127.847
Geoid Height (M):	-28.442

Location Description
To reach the station from the junction of highways 63 and 9 in Mammoth Springs go south on hwy-63 for 0.10 miles to the station on the left on a cut bank about 4 feet higher than the highway. 35.0 feet east of the center of hwy-63 and 2.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "250011 2010" set on top of a 5/8 by 4.00 foot long rebar and is 0.10 feet below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250011A	Date Monumented 6/27/2010	Monumented By AHTD	County Fulton	Route 63	Job Number: 050230
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	240,365.2241	
Easting (M)	441,481.7660	
Elevation (M)*	168.696	
Northing (SFT)	788,598.2394	
Easting (SFT)	1,448,428.0940	
Elevation (SFT)*	553.465	

Convergence Angle	0	16	9.8635562
Scale Factor	1.000063305		
Elevation Adjust. Factor	0.9999735267		
Combined Adjust. Factor	1.0000368301		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	"Enter" sign	190	16.45	54.0
MK # 2	18 inch culvert	22	10.67	35.0
MK # 3	18 inch culvert	150	15.54	51.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 MONA Ref Mon # 3 MOWS	Elevation was est. by crew S5102 in July 2010 from NGS marks L 308, M 308, and N 308.

Location Description	
To reach the station from the junction of highways 63 and 9 in Mammoth Springs go north on hwy-63 for 0.20 miles to the station on the left in an area between two concrete drives. 66.0 feet west of the center of hwy-63 and 2.00 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "250011A 2010" set on top of a 5/8 by 4.00 foot long rebar and is 0.10 feet below the surface	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250012	Date Monumented 9/13/2011	Monumented By AHTD	County Fulton	Route 63	Job Number: 012157,050265
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	223,509.2992	
Easting (M)	447,133.9802	
Elevation (M)*		
Northing (SFT)	733,296.7591	
Easting (SFT)	1,466,972.0667	
Elevation (SFT)*		

Convergence Angle	0	18	19.9111479
Scale Factor	1.000024397		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
Starting from the intersection of Hwy.63 and 62/412 in Hardy, go for 2.7miles north on hwy 63 to the station on the right. Cap stamped 250012-2011. on a 3.ft long and 5/8 rebar. 2.ft west of witness post, 62.ft east of center line and is as described of. Lat. 36.2045 Lon.091.831				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	215	19.20	63.0
MK # 2	Fence corner	50	9.10	29.9
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 150px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250012A	Date Monumented 9/13/2011	Monumented By AHTD	County Fulton	Route 63	Job Number: 012157,050265
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	223,280.0505	
Easting (M)	446,912.4464	
Elevation (M)*		
Northing (SFT)	732,544.6323	
Easting (SFT)	1,466,245.2512	
Elevation (SFT)*		

Convergence Angle	0	18	14.7131768
Scale Factor	1.000023920		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Center of ditch	310	2.00	6.6	
MK # 2	Extended CL of county rd.	115	5.50	18.0	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 150px;"></div>
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Vertical Determined By:

Elevation Datum:

Geoid Datum: Geoid09

Latitude 36 20 40.9747380

Longitude 91 28 38.7234624

Ellipsoid Height (M): 165.548

Geoid Height (M): -28.427

Location Description

Starting from the intersection of Hwy.63 and 62/412, go for 2.5miles to the station on the left. Standard cap stamped 250012A-2011 and set on a 4ft long 5/8 rebar. 2.ft east of the wittness post and 36.ft west of center line and is as described above. Lat-36.2041 Lon-091.2839

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250013	Date Monumented 9/13/2011	Monumented By AHTD	County Fulton	Route 63	Job Number: 012157,050265
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	227,838.6883	
Easting (M)	445,972.9217	
Elevation (M)*	149.846	
Northing (SFT)	747,500.7632	
Easting (SFT)	1,463,162.8273	
Elevation (SFT)*	491.618	

Convergence Angle	0	17	53.3430924
Scale Factor	1.000033711		
Elevation Adjust. Factor	0.9999764849		
Combined Adjust. Factor	1.0000101951		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	metal fence post for double gate	310	0.60	2.0
MK # 2	Center line of grave dr.	225	4.90	16.1
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN FROM NGS BM H 313 DURING JOB 050274 BY CREW S5103 IN JAN. 2013.</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN FROM NGS BM H 313 DURING JOB 050274 BY CREW S5103 IN JAN. 2013.
Comments			
DIGITAL LEVELS WERE RAN FROM NGS BM H 313 DURING JOB 050274 BY CREW S5103 IN JAN. 2013.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250013A	Date Monumented 9/13/2011	Monumented By AHTD	County Fulton	Route 63	Job Number: 012157,050265
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 227,333.0525		Geoid Datum: Geoid09
Easting (M) 445,920.5861		Latitude 36 22 52.6275120
Elevation (M)* 171.300		Longitude 91 29 17.6534304
Northing (SFT) 745,841.8564		Ellipsoid Height (M): 142.809
Easting (SFT) 1,462,991.1229		Geoid Height (M): -28.457
Elevation (SFT)* 562.007		

Convergence Angle 0 17 52.0598624	
Scale Factor 1.000032601	
Elevation Adjust. Factor 0.9999731181	
Combined Adjust. Factor 1.0000057183	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	Center line of gravel dr.	175	8.80	28.9	AZ Mark Station
MK # 2	Power pole with guy	206	24.40	80.1	Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN FROM NGS BM H 313 DURING JOB 050274 BY CREW S5103 IN JAN. 2013.</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN FROM NGS BM H 313 DURING JOB 050274 BY CREW S5103 IN JAN. 2013.
Comments			
DIGITAL LEVELS WERE RAN FROM NGS BM H 313 DURING JOB 050274 BY CREW S5103 IN JAN. 2013.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250014	Date Monumented 9/13/2011	Monumented By AHTD	County Fulton	Route 63	Job Number: 012157,050265
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	231,140.6776	
Easting (M)	445,391.8004	
Elevation (M)*		
Northing (SFT)	758,334.0398	
Easting (SFT)	1,461,256.2651	
Elevation (SFT)*		

Convergence Angle	0	17	40.1719670
Scale Factor	1.000041125		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	corgated metal pipe	225	5.20	17.1	
MK # 2	center line of gravel dr.	90	7.30	24.0	
MK # 3	power pole	170	29.00	95.1	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 150px;"></div>
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Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	Geoid09
Latitude	36 24 56.2379112
Longitude	91 29 38.0829084
Ellipsoid Height (M):	192.832
Geoid Height (M):	-28.474

Location Description
Starting at the intersection of Hwy.63 and 62/412, go north on hwy.63 for 8.65miles to the station on the right. standard cap stamped 250014-2011. 2.ft west of witness post, set on 4.ft-5/8 rebar, 60.ft east of center line and is as described above. Lat.36.2456 Lon.091.2938

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250014A	Date Monumented 9/13/2011	Monumented By AHTD	County Fulton	Route 63	Job Number: 012157,050265
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	231,520.0043	
Easting (M)	445,255.0427	
Elevation (M)*		
Northing (SFT)	759,578.5474	
Easting (SFT)	1,460,807.5859	
Elevation (SFT)*		

Convergence Angle	0	17	37.0233078
Scale Factor	1.000041995		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Center line of gravel dr.	0	8.80	28.9	
MK # 2	18" Corrugated metal pipe	70	11.60	38.1	
MK # 3	Center Line of Hwy.63	90	23.50	77.1	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 150px;"></div>
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Vertical Determined By:

Elevation Datum:

Geoid Datum: Geoid09

Latitude 36 25 8.5661796

Longitude 91 29 43.4939136

Ellipsoid Height (M): 188.502

Geoid Height (M): -28.476

Location Description

Starting of the intersection of Hwy.63 and 62/412, go 8.9miles north on hwy.63 to the station on the left cap is standard cap stamped 250014A-2011, 6.ft south from the witness post and 77.ft west of center line and is as described above. Lat.36.2509 Lon.091.2944

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250015	Date Monumented 9/13/2011	Monumented By AHTD	County Fulton	Route 63	Job Number: 012157,050265
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	235,349.2912	
Easting (M)	445,320.6249	
Elevation (M)*		
Northing (SFT)	772,141.7995	
Easting (SFT)	1,461,022.7502	
Elevation (SFT)*		

Convergence Angle	0	17	39.0142931
Scale Factor	1.000050961		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	south of telephone box	20	2.30	7.5	
MK # 2	north of Union Hill RD.	180	8.50	27.9	
MK # 3	15" corgated metal pipe	320	14.30	46.9	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	Geoid09
Latitude	36 27 12.7777608
Longitude	91 29 40.0723836
Ellipsoid Height (M):	190.746
Geoid Height (M):	-28.489

Location Description
Starting from the intersection of Hwy.63 and 62/412 in Hardy, go north on hwy. 63 for 11.75miles to the station on the right, standard cap stamed 250015-2011, set on top of 2.ft-5/8 rebar, 2.ft west of wittness post and 61.ft east of center line and is as described above. Lat.36.2713 Lon.091.2940

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250016	Date Monumented 2/14/2013	Monumented By AHTD	County Fulton	Route 9	Job Number: 050271
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	228,838.9825	
Easting (M)	419,211.7929	
Elevation (M)*	216.079	
Northing (SFT)	750,782.5618	
Easting (SFT)	1,375,364.0239	
Elevation (SFT)*	708.920	

Convergence Angle	0	7	28.5974151
Scale Factor	1.000036146		
Elevation Adjust. Factor	0.9999660913		
Combined Adjust. Factor	1.0000022360		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Combination pole	32	32.31	106.0	250016A
MK # 2	Metal fence post	226	20.12	66.0	
MK # 3	Wood fence post	83	1.52	5.0	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. WAS DETERMINED BY DIGITAL LEVELS FROM NGS BM B 17 BY CREW S5102 DURING JOB 050271 IN FEB 2012.</td> </tr> </table>	Comments	ELEV. WAS DETERMINED BY DIGITAL LEVELS FROM NGS BM B 17 BY CREW S5102 DURING JOB 050271 IN FEB 2012.
Comments			
ELEV. WAS DETERMINED BY DIGITAL LEVELS FROM NGS BM B 17 BY CREW S5102 DURING JOB 050271 IN FEB 2012.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250016A	Date Monumented 2/14/2013	Monumented By AHTD	County Fulton	Route 9	Job Number: 050271
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	228,672.5418	
Easting (M)	418,752.0139	
Elevation (M)*	214.182	
Northing (SFT)	750,236.4976	
Easting (SFT)	1,373,855.5656	
Elevation (SFT)*	702.696	

Convergence Angle	0	7	17.8533111
Scale Factor	1.000035778		
Elevation Adjust. Factor	0.9999663890		
Combined Adjust. Factor	1.0000021658		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	242	22.25	73.0
MK # 2	Metal fence post	30	0.91	3.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. WAS DETERMINED BY DIGITAL LEVELS FROM NGS BM B 17 BY CREW S5102 DURING JOB 050271 IN FEB 2012.</td> </tr> </table>	Comments	ELEV. WAS DETERMINED BY DIGITAL LEVELS FROM NGS BM B 17 BY CREW S5102 DURING JOB 050271 IN FEB 2012.
Comments			
ELEV. WAS DETERMINED BY DIGITAL LEVELS FROM NGS BM B 17 BY CREW S5102 DURING JOB 050271 IN FEB 2012.			

Location Description
To reach from the intersection of Hwy. 62/412 and Hwy. 9, go North on Hwy. 9 for 3.0 miles to the station on the left. The station is 38 ft. North of the Centerline of Hwy. 9, and 42 ft. West of Centerline of driveway at 2168 Hwy. 9, and 2 ft. South of witness post. The station mark is a 2 1/2 in. cap stamped "250016A 2013" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

AZ Mark Station	250016
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250017	Date Monumented 6/28/2017	Monumented By S5101	County FULTON	Route 9	Job Number: 050347
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	216,537.3080	0.0030	
Easting (M)	409,254.7917	0.0040	
Elevation (M)*	222.750	0.0020	
Northing (SFT)	710,422.8180		
Easting (SFT)	1,342,696.7624		
Elevation (SFT)*	730.804		

Convergence Angle	0	3	35.8001115
Scale Factor	1.000010632		
Elevation Adjust. Factor	0.9999650445		
Combined Adjust. Factor	0.9999756762		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE LINE	300	2.44	8.0
MK # 2	TELEPHONE BOX	18	32.61	107.0
MK # 3	Witness sign		2.29	7.5

Area Reference Monuments (used for Processing) Ref Mon # 1 ARM3 Ref Mon # 2 MOAT Ref Mon # 3 MOWS	Comments Elevations ran from USGS second order E17 and B17 using digital levels by crew S5101 during job 050347 in July 2017.
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Location Description			
To reach the monument from the junction of US highway 62/412 and AR highway 9 in Salem AR travel 7.4 miles southwest along AR hwy 9 to the monument on the right 32.7 feet west of the centerline. A standard 3" aluminum cap stamped 250017 / 2017 on top of a 5/8 inch rebar 4 foot long driven flush with the ground, 7.5' East of sign.			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	17	6.1073412
Longitude	91	53	49.1451540
Ellipsoid Height (M):	194.602	0.0000	
Geoid Height (M):	-28.148		

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250017A	Date Monumented 6/28/2017	Monumented By S5101	County FULTON	Route 9	Job Number: 050347
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	216,869.0774	0.0040			
Easting (M)	409,469.6539	0.0050			
Elevation (M)*	226.970	0.0009			
Northing (SFT)	711,511.2981				
Easting (SFT)	1,343,401.6895				
Elevation (SFT)*	744.651				

Convergence Angle	0	3	40.8184734
Scale Factor	1.000011271		
Elevation Adjust. Factor	0.9999643823		
Combined Adjust. Factor	0.9999756529		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	FENCE LINE	300	2.26	7.4	250017
MK # 2	TELEPHONE BOX	16	6.00	19.7	
MK # 3	FIRE HYDRANT	15	11.70	38.4	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARM3	Elevations ran from USGS second order E17 and B17 using digital levels by crew S5101 during job 050347 in July 2017.
Ref Mon # 2: MOAT	
Ref Mon # 3: MOWS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250018	Date Monumented 6/28/2017	Monumented By S5101	County FULTON	Route 9	Job Number: 050347
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	219,040.2269	0.0040			
Easting (M)	411,444.9268	0.0040			
Elevation (M)*	275.210	0.0017			
Northing (SFT)	718,634.4778				
Easting (SFT)	1,349,882.2307				
Elevation (SFT)*	902.917				

Convergence Angle	0	4	26.9444223
Scale Factor	1.000015521		
Elevation Adjust. Factor	0.9999568125		
Combined Adjust. Factor	0.9999723328		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	210	19.05	62.5
MK # 2	CENTER OF CORRIGATED METAL PIPE	235	15.85	52.0
MK # 3	POWER POLE	40	12.13	39.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="ARM3"/> Ref Mon # 2 <input type="text" value="MOAT"/> Ref Mon # 3 <input type="text" value="MOWS"/>	Elevations ran from USGS second order E17 and B17 using digital levels by crew S5101 during job 050347 in July 2017.

Location Description
To reach the monument from the junction of US highway 62/412 and AR highway 9 in Salem AR travel 5.3 miles southwest along AR hwy 9 to the monument on the left 33.0 feet east of the centerline. A standard 3" aluminum cap stamped 250018 / 2017 on top of a 5/8 inch rebar 4 foot long driven flush with the ground, 7' West of sign

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250018A	Date Monumented 6/28/2017	Monumented By S5101	County FULTON	Route 9	Job Number: 050347
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	219,540.7683 0.0050
Easting (M)	411,798.7698 0.0050
Elevation (M)*	262.083 0.0017
Northing (SFT)	720,276.6707
Easting (SFT)	1,351,043.1306
Elevation (SFT)*	859.851

Convergence Angle	0 4 35.2131162
Scale Factor	1.000016517
Elevation Adjust. Factor	0.9999588723
Combined Adjust. Factor	0.9999753886

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE LINE	300	1.68	5.5
MK # 2	CENTER OF WEST HEADWALL	50	30.02	98.5
MK # 3	Witness sign		1.52	5.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARM3	Elevations ran from USGS second order E17 and B17 using digital levels by crew S5101 during job 050347 in July 2017.
Ref Mon # 2 MOAT	
Ref Mon # 3 MPWS	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12B
Latitude	36 18 43.4483640
Longitude	91 52 7.0432572
Ellipsoid Height (M):	233.915 0.0150
Geoid Height (M):	-28.187

Location Description
<p>To reach the monument from the junction of US highway 62/412 and AR highway 9 in Salem AR travel 4.9 miles southwest along AR hwy 9 to the monument on the right 35.9 feet west of the centerline. A standard 3" aluminum cap stamped 250018A / 2017 on top of a 5/8 inch rebar 4 foot long driven flush with the ground, 5' West of sign.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250019	Date Monumented 6/28/2017	Monumented By S5101	County FULTON	Route 9	Job Number: 050347
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	222,639.9204	0.0040			
Easting (M)	413,639.0836	0.0050			
Elevation (M)*	241.640	0.0052			
Northing (SFT)	730,444.4722				
Easting (SFT)	1,357,080.8934				
Elevation (SFT)*	792.780				

Convergence Angle	0	5	18.2509718
Scale Factor	1.000022825		
Elevation Adjust. Factor	0.9999620803		
Combined Adjust. Factor	0.9999849044		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	135	3.05	10.0
MK # 2	POWER POLE	165	8.69	28.5
MK # 3	NORTH END OF CORRIGATED METAL PIPE	225	41.36	135.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="ARM3"/>	Elevations ran from USGS second order E17 and B17 using digital levels by crew S5101 during job 050347 in July 2017.
Ref Mon # 2 <input type="text" value="MOAT"/>	
Ref Mon # 3 <input type="text" value="MOWS"/>	

Vertical Determined By:	3rd Order - 3 Wire Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12B
Latitude	36 20 23.9050896
Longitude	91 50 53.0822328
Ellipsoid Height (M):	213.375 0.0180
Geoid Height (M):	-28.247

Location Description
<p>To reach the monument from the junction of US highway 62/412 and AR highway 9 in Salem AR travel 2.5 miles southwest along AR hwy 9 to the monument on the left 31.0 feet east of the centerline. A standard 3" aluminum cap stamped 250019 / 2017 on top of a 5/8 inch rebar 4 foot long driven flush with the ground, 10' West of sign.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250019A	Date Monumented 6/28/2017	Monumented By S5101	County FULTON	Route 9	Job Number: 050347
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	223,171.4297	0.0040			
Easting (M)	414,089.7711	0.0040			
Elevation (M)*	228.211	0.0016			
Northing (SFT)	732,188.2656				
Easting (SFT)	1,358,559.5240				
Elevation (SFT)*	748.723				

Convergence Angle	0	5	28.7869517
Scale Factor	1.000023930		
Elevation Adjust. Factor	0.9999641875		
Combined Adjust. Factor	0.9999881167		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	115	3.78	12.4
MK # 2	SOUTH END OF CORIGATED METAL PIPE	350	3.51	11.5
MK # 3	Witness sign		3.96	13.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARM3 Ref Mon # 2 MOAT Ref Mon # 3 MOWS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevations ran from USGS second order E17 and B17 using digital levels by crew S5101 during job 050347 in July 2017.</td> </tr> </table>	Comments	Elevations ran from USGS second order E17 and B17 using digital levels by crew S5101 during job 050347 in July 2017.
Comments			
Elevations ran from USGS second order E17 and B17 using digital levels by crew S5101 during job 050347 in July 2017.			

Location Description
To reach the monument from the junction of US highway 62/412 and AR highway 9 in Salem AR travel 2.1 miles southwest along AR hwy 9 to the monument on the left 30.7 feet east of the centerline. A standard 3" aluminum cap stamped 250017 / 2017 on top of a 5/8 inch rebar 4 foot long driven flush with the ground, 13' West of sign.

AZ Mark Station	250019
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260001	Date Monumented 11/2/1998	Monumented By AHTD	County GARLAND	Route 7	Job Number: R60140, 060776
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 612,887.6919		Latitude 34 34 55.3667880
Easting (M) 308,654.9540		Longitude 92 59 44.2996224
Elevation (M)* 202.343		Ellipsoid Height (M): 175.144
Northing (SFT) 2,010,782.3692		Geoid Height (M): -27.115
Easting (SFT) 1,012,645.4616		
Elevation (SFT)* 663.854		

Convergence Angle 0 33 26.0991175	Location Description
Scale Factor 0.999964039	<p>TO REACH THE STATION FROM THE HOT SPRINGS VILLAGE POST OFFICE, GO SOUTH ON HIGHWAY 7 FOR 10.70KM. (6.65MI.) TO THE STATION ON THE RIGHT. 16.47 METERS SOUTHWEST OF THE CENTER OF HIGHWAY 7 AND 0.50 METERS NORTHEAST OF WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260001 1998" SET ON TOP OF AN IRON ROD 0.83 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 0.9999682468	
Combined Adjust. Factor 0.9999322869	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	LIGHT POLE		144	7.97	26.1
MK # 2	LIGHT POLE		304	8.48	27.8
MK # 3	SOUTH END OF CONCRETE HEADWALL		341	21.85	71.7

Area Reference Monuments (used for Processing) Ref Mon # 1 Q 299 Ref Mon # 2 AHTD LR 1 Ref Mon # 3 AP 1970 STA A3 HOT	Comments ELEVATION BY 3-WIRE FROM NGS K 103, L 103
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260001A	Date Monumented 11/2/1998	Monumented By AHTD	County GARLAND	Route 7	Job Number: R60140, 060776
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	612,698.5559	
Easting (M)	309,028.9640	
Elevation (M)*	189.256	
Northing (SFT)	2,010,161.8455	
Easting (SFT)	1,013,872.5261	
Elevation (SFT)*	620.917	

Convergence Angle	0	33	17.8454776
Scale Factor	0.999963761		
Elevation Adjust. Factor	0.9999703004		
Combined Adjust. Factor	0.9999340625		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	GUY POLE		106	29.55	96.9
MK # 2	GUY POLE		281	34.20	112.2
MK # 3	N/A				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	Q 299
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	AP 1970 STA A3 HOT

Comments
ELEVATION BY 3-WIRE FROM NGS K 103, L 103

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260002	Date Monumented 11/3/1998	Monumented By AHTD	County GARLAND	Route 7	Job Number: 060776
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	615,733.0440	
Easting (M)	305,639.6220	
Elevation (M)*	211.743	
Northing (SFT)	2,020,117.4952	
Easting (SFT)	1,002,752.6598	
Elevation (SFT)*	694.693	

Convergence Angle	0	34	32.9447553
Scale Factor	0.999968366		
Elevation Adjust. Factor	0.9999667717		
Combined Adjust. Factor	0.9999351388		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST END 0.90 METER CONCRETE P	313	13.10	43.0
MK # 2	N/A			
MK # 3	N/A			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	Q 299
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	AP 1970 STA A3 HOT

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260002A	Date Monumented 11/3/1998	Monumented By AHTD	County GARLAND	Route 7	Job Number: 060776,061438
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	615,443.8509	
Easting (M)	305,778.0730	
Elevation (M)*	210.035	
Northing (SFT)	2,019,168.7008	
Easting (SFT)	1,003,206.8945	
Elevation (SFT)*	689.090	

Convergence Angle	0	34	29.8396642
Scale Factor	0.999967914		
Elevation Adjust. Factor	0.9999670397		
Combined Adjust. Factor	0.9999349548		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	329	59.36	194.8
MK # 2	GUY POLE	11	32.80	107.6
MK # 3	GUY POLE	89	22.60	74.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Q 299	ELEV IS BASED OFF OF 3RD ORDER DIGITAL LEVELS FROM AHTD GPS MON 260028A AND NGS BMS K103 AND L103 DURING JOB 061438 BY CREW SS102 IN JULY 2014.
Ref Mon # 2 AHTD LR 1	
Ref Mon # 3 AP 1970 STA A3 HOT	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	34 36 17.3955276
Longitude	93 1 38.1849312
Ellipsoid Height (M):	182.730
Geoid Height (M):	-27.257

Location Description
<p>TO REACH THE STATION FROM THE HOT SPRINGS VILLAGE POST OFFICE GO SOUTH ON HIGHWAY 7 FOR 6.679KM. (4.15ML) TO THE STATION ON THE RIGHT. 47.79 METERS SOUTHEAST OF THE CENTER OF "TURTLE CREEK ROAD", 9.38 METERS SOUTHWEST OF THE CENTER OF HWY-7 AND 0.78 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260002A 1998" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	260002
Geodetic Azimuth	333 50 32.22731
Grid Azimuth	334 25 02.04413

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260003	Date Monumented 11/3/1998	Monumented By AHTD	County GARLAND	Route 7	Job Number: 060776,061438
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	620,225.3549
Easting (M)	303,072.2100
Elevation (M)*	245.210
Northing (SFT)	2,034,856.0185
Easting (SFT)	994,329.4090
Elevation (SFT)*	804.494

Convergence Angle	0 35 30.3619335
Scale Factor	0.999975633
Elevation Adjust. Factor	0.9999615200
Combined Adjust. Factor	0.9999371539

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	N/A		
MK # 2	N/A		
MK # 3	N/A		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Q 299	ELEV IS BASED OFF OF 3RD ORDER DIGITAL LEVELS FROM AHTD GPS MON 260028A AND NGS BMS K103 AND L103 DURING JOB 061438 BY CREW SS102 IN JULY 2014.
Ref Mon # 2 AHTD LR 1	
Ref Mon # 3 AP 1970 STA A3 HOT	

Vertical Determined By: 3rd Order - Digital Levels
Elevation Datum: NAVD 88
Geoid Datum: Geoid 96
Latitude 34 38 51.6662376
Longitude 93 3 26.3201400
Ellipsoid Height (M): 217.706
Geoid Height (M): -27.454

Location Description
<p>TO REACH THE STATION FROM THE HOT SPRINGS VILLAGE POST OFFICE GO SOUTH ON HIGHWAY 7 FOR 0.643KM. (0.40 MI.) TO THE STATION ON THE LEFT. 15.10 METERS EAST OF THE CENTER OF HWY-7 AND 0.70 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260003 1998" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260003A	Date Monumented 11/3/1998	Monumented By AHTD	County GARLAND	Route 7	Job Number: 060776,061438
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	620,797.2560	0.0060			
Easting (M)	303,142.8010	0.0057			
Elevation (M)*	287.087				

Northing (SFT)	2,036,732.3307				
Easting (SFT)	994,561.0063				
Elevation (SFT)*	941.883				

Convergence Angle	0	35	28.9402678		
Scale Factor	0.999976600				
Elevation Adjust. Factor	0.9999549488				
Combined Adjust. Factor	0.9999315499				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (1997)				
Latitude	34	39	10.2485484		
Longitude	93	3	23.7807936		
Ellipsoid Height:	259.521				
Grid Northing (Meters)	620,797.2580				
Grid Easting (Meters)	303,142.7820				

Location Description					
<p>TO REACH THE STATION FROM THE HOT SPRINGS VILLAGE POST OFFICE GO SOUTH ON HIGHWAY 7 FOR 0.08 KM. (0.05 MI.) TO THE STATION ON THE RIGHT. 26.56 METERS SOUTHEAST OF THE CENTER OF "McNEELEY CIRCLE", 10.32 METERS WEST OF THE CENTER OF HWY-7 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260003A 1998" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	N/A				
MK # 2	N/A				
MK # 3	N/A				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 Q 299</p> <p>Ref Mon # 2 AHTD LR 1</p> <p>Ref Mon # 3 AP 1970 STA A3 HOT</p>	<p style="text-align: center;">Comments</p> <p>ELEV IS BASED OFF OF 3RD ORDER DIGITAL LEVELS FROM AHTD GPS MON 260028A AND NGS BMS K103 AND L103 DURING JOB 061438 BY CREW SS102 IN JULY 2014.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260004	Date Monumented 9/13/1999	Monumented By AHTD	County GARLAND	Route 7	Job Number: 060686
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	598,214.8789	
Easting (M)	300,503.5200	
Elevation (M)*	137.261	
Northing (SFT)	1,962,643.3152	
Easting (SFT)	985,901.9652	
Elevation (SFT)*	450.330	

Convergence Angle	0	36	21.6979605
Scale Factor	0.999944577		
Elevation Adjust. Factor	0.9999784597		
Combined Adjust. Factor	0.9999230379		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MANHOLE COVER	86	14.70	48.2
MK # 2	WATER METER	136	14.75	48.4
MK # 3	TELEPHONE JUNCTION BOX	203	15.15	49.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LR 1	Elevation by 3 wire from NGS point AP 1970 A3 HOT
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 HOPEPORT	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 26 56.5159452
Longitude	93 4 58.0422792
Ellipsoid Height (M):	110.231
Geoid Height (M):	-27.062

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 AND STATE HIGHWAY 7, LOCATED ON THE SOUTH SIDE OF HOT SPRINGS, GO SOUTH ON STATE HIGHWAY 7 FOR 2.98 KM (1.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.15 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 7, 13.00 METERS WEST-SOUTHWEST OF THE CENTER OF THE PAVED ENTRANCE TO THE HOT SPINGS MALL AND 0.43 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF A SIDEWALK. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260004 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 557.331 METERS.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260004A	Date Monumented 9/13/1999	Monumented By AHTD	County GARLAND	Route 7	Job Number: 060686
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 598,464.3199		Latitude 34 27 4.7816280
Easting (M) 301,001.8680		Longitude 93 4 38.6224500
Elevation (M)* 138.977		Ellipsoid Height (M): 111.963
Northing (SFT) 1,963,461.6895		Geoid Height (M): -27.051
Easting (SFT) 987,536.9619		
Elevation (SFT)* 455.960		

Convergence Angle	0	36	10.8288630
Scale Factor	0.999944867		
Elevation Adjust. Factor	0.9999781905		
Combined Adjust. Factor	0.9999230587		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	MANHOLE COVER	85	14.60	47.9	AZ Mark Station 260004
MK # 2	TELEPHONE JUNCTION BOX	99	13.15	43.1	Geodetic Azimuth 242 48 26.50750
MK # 3	WATER METER	232	10.35	34.0	Grid Azimuth 243 24 37.27805

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LR 1	Elevation by 3 wire from NGS point AP 1970 A3 HOT
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 HOPEPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260005	Date Monumented 9/13/1999	Monumented By AHTD	County GARLAND	Route 270	Job Number: 060686,061312
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	600,056.0099	
Easting (M)	301,430.1910	
Elevation (M)*	170.741	
Northing (SFT)	1,968,683.7591	
Easting (SFT)	988,942.2183	
Elevation (SFT)*	560.173	

Convergence Angle	0	36	1.8030843
Scale Factor	0.999946722		
Elevation Adjust. Factor	0.9999732059		
Combined Adjust. Factor	0.9999199293		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH IN TOP OF METAL GUARD RAIL POS	298	3.35	11.0
MK # 2	PUNCH IN TOP OF METAL GUARD RAIL POS	26	2.26	7.4
MK # 3	PUNCH IN TOP OF METAL GUARD RAIL POS	62	6.12	20.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LR 1 Ref Mon # 2 AP 1970 STA A3 HOT Ref Mon # 3 HOPEPORT	Elevation by 3 wire from NGS point AP 1970 A3 HOT

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 27 56.5822044
Longitude	93 4 22.4960808
Ellipsoid Height (M):	143.675
Geoid Height (M):	-27.066

Location Description
THE STATION IS LOCATED ON THE SOUTH SIDE OF HOT SPRINGS, AT THE JUNCTION OF U.S. HIGHWAY 270 AND STATE HIGHWAY 88 (HIGDON FERRY ROAD), THE STATION IS SET WEST OF THE WEST END OF THE U.S. HIGHWAY 270 OVERPASS OF STATE HIGHWAY 88, THE STATION IS 8.85 METERS SOUTH OF THE CENTER OF THE EAST BOUND LANE, 6.75 METERS SOUTHWEST OF THE WEST END OF THE BRIDGE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260005 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ESTABLISHED BY CREW S5102 BY 3 WIRE LEVELING FROM AN AHTD CAP SET IN BRIDGE NUMBER 6369. THE SHOT DISTANCE IS 1062.170 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260005A	Date Monumented 9/13/1999	Monumented By AHTD	County GARLAND	Route 270	Job Number: 060686
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 600,064.9339		Latitude 34 27 57.2311080
Easting (M) 302,492.2390		Longitude 93 3 40.8859416
Elevation (M)* 153.496		Ellipsoid Height (M): 126.470
		Geoid Height (M): -27.035

Northing (SFT) 1,968,713.0373		
Easting (SFT) 992,426.6208		
Elevation (SFT)* 503.595		

Convergence Angle 0 35 38.5142770		
Scale Factor 0.999946746		
Elevation Adjust. Factor 0.9999759121		
Combined Adjust. Factor 0.9999226593		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND THE U.S. HIGHWAY 270 WEST BOUND ON RAMP, LOCATED ON THE SOUTH SIDE OF HOT SPRINGS, GO WESTERLY ON THE ON RAMP FOR 0.08 KM (0.05 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.48 METERS SOUTH OF THE CENTER OF A FRONTAGE ROAD, 14.46 METERS NORTH OF THE CENTER OF THE ON RAMP AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "260005A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 1062.170 METERS.

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station 260005
MK # 2	NONE				Geodetic Azimuth 268 55 28.50774
MK # 3	NONE				Grid Azimuth 269 31 06.89253

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 AHTD LR 1</p> <p>Ref Mon # 2 AP 1970 STA A3 HOT</p> <p>Ref Mon # 3 HOPEPORT</p>	<p style="text-align: center;">Comments</p> <p>Elevation by 3 wire from NGS point AP 1970 A3 HOT</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260006	Date Monumented 9/20/1999	Monumented By AHTD	County GARLAND	Route 70	Job Number: R60032
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	597,646.7139	
Easting (M)	289,489.2070	
Elevation (M)*	160.096	
Northing (SFT)	1,960,779.2605	
Easting (SFT)	949,765.8400	
Elevation (SFT)*	525.248	

Convergence Angle	0	40	23.0456219
Scale Factor	0.999943797		
Elevation Adjust. Factor	0.9999748763		
Combined Adjust. Factor	0.9999186748		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>THE STATION IS LOCATED AT THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 227, IN LAKE HAMILTON. THE STATION IS 20.49 METERS SOUTH-SOUTHWEST OF THE CENTER OF STATE HIGHWAY 227, 13.00 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 70 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260006 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 292.615 METERS.</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	SOUTH END OF RCP	319	30.81	101.1	
MK # 2	BURIED CABLE WARNING SIGN	0	8.54	28.0	
MK # 3	CP	213	26.70	87.6	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ MK	<p>Elevation based 3 wire NGS point HEMP</p>
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260006A	Date Monumented 9/20/1999	Monumented By AHTD	County GARLAND	Route 70	Job Number: R60032,061620
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 597,642.7289		Latitude 34 26 33.8465148
Easting (M) 289,196.6500		Longitude 93 12 20.7164448
Elevation (M)* 170.348 0.0020		Ellipsoid Height (M): 143.075
		Geoid Height (M): -27.322

Northing (SFT) 1,960,766.1864		
Easting (SFT) 948,806.0092		
Elevation (SFT)* 558.883		

Convergence Angle 0 40 29.4585683		
Scale Factor 0.999943789		
Elevation Adjust. Factor 0.9999732676		
Combined Adjust. Factor 0.9999170581		

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 227, LOCATED IN LAKE HAMILTON, GO SOUTHWEST ON U.S. HIGHWAY 70 FOR 0.29 KM (0.18 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.40 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 70 AND 0.23 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260006A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 292.615 METERS.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	OLD UTILITY POLE AT THE WEST END OF FENCE	89	15.70	51.5
MK # 2	BURIED CABLE WARING SIGN	275	8.15	26.7
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ MK	Elevation based 3 wire NGS point HEMP
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260007	Date Monumented 9/20/1999	Monumented By AHTD	County GARLAND	Route 70	Job Number: R60032
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	599,981.9869	
Easting (M)	294,812.6560	
Elevation (M)*	148.391	
Northing (SFT)	1,968,440.9020	
Easting (SFT)	967,231.1889	
Elevation (SFT)*	486.846	

Convergence Angle	0	38	26.9069712
Scale Factor	0.999946550		
Elevation Adjust. Factor	0.9999767132		
Combined Adjust. Factor	0.9999232644		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAN HOLE COVER	228	4.25	13.9
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Elevation based 3 wire NGS point HEMP
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260007A	Date Monumented 9/20/1999	Monumented By AHTD	County GARLAND	Route 70	Job Number: R60032
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	599,630.5648	
Easting (M)	294,561.1110	
Elevation (M)*	139.720	
Northing (SFT)	1,967,287.9447	
Easting (SFT)	966,405.9117	
Elevation (SFT)*	458.398	

Convergence Angle	0	38	32.3368485
Scale Factor	0.999946134		
Elevation Adjust. Factor	0.9999780739		
Combined Adjust. Factor	0.9999242090		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 192, LOCATED ABOUT 3.22 KM (2.00 MI) SOUTHWEST OF HOT SPRINGS, GO SOUTHWEST ON U.S. HIGHWAY 70 FOR 0.19 KM (0.12 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.50 METERS SOUTHWEST OF THE CENTER OF A GRAVEL ENTRANCE TO A SHELL PIT, 10.6 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 70 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260007A 1999" SET ON TOP OF AN IRON ROD 0.40 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 432.201 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 MENAPORT AZ MK</p> <p>Ref Mon # 2 AP 1970 STA A3 HOT</p> <p>Ref Mon # 3 DE QUEEN CORS</p>	<p style="text-align: center;">Comments</p> <p>Elevation based 3 wire NGS point HEMP</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260008	Date Monumented 8/20/2001	Monumented By AHTD	County GARLAND	Route 227	Job Number: 060984,061620
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	600,847.4789	
Easting (M)	285,518.0040	
Elevation (M)*		
Northing (SFT)	1,971,280.4370	
Easting (SFT)	936,736.9848	
Elevation (SFT)*		

Convergence Angle	0	41	50.9635530
Scale Factor	0.999947449		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	267	26.70	87.6
MK # 2	CORRIGATED METAL PIPE	101	30.30	99.4
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	AP 1970 STA A3 HOT
Ref Mon # 2	MENAPORT AZ MK
Ref Mon # 3	260006

Comments

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 28 16.4177652
Longitude	93 14 46.3414956
Ellipsoid Height (M):	109.916
Geoid Height (M):	-27.469

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 227 LOCATED IN HEMPWALLACE, GO NORTHWEST ON STATE HIGHWAY 227 FOR 6.647 KM (4.13 MI) TO THE STATION ON THE RIGHT. THE STATION IS 36.65 METERS WEST OF A GRAVEL DRIVE, 15.25 METERS NORTH OF THE CENTER OF STATE HIGHWAY 227, AND 0.90 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260008 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 722.124 METERS.</p>

AZ Mark Station	260008A
Geodetic Azimuth	269 48 13
Grid Azimuth	270 30 04

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260008A	Date Monumented 8/20/2001	Monumented By AHTD	County GARLAND	Route 227	Job Number: 060984,061620
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	600,853.7948	
Easting (M)	284,795.9540	
Elevation (M)*		
Northing (SFT)	1,971,301.1584	
Easting (SFT)	934,368.0591	
Elevation (SFT)*		

Convergence Angle	0	42	6.8005829
Scale Factor	0.999947446		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	AP 1970 STA A3 HOT
Ref Mon # 2	MENAPORT AZ MK
Ref Mon # 3	260006

Comments

Vertical Determined By:	3rd Order - 3 Wire Levels
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 28 16.3365672
Longitude	93 15 14.6375352
Ellipsoid Height (M):	120.404
Geoid Height (M):	-27.483

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 227 LOCATED IN HEMPWALLACE, GO NORTHWEST ON STATE HIGHWAY 227 FOR 7.355 KM (4.57 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.85 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 227 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260008A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 722.124 METERS.</p>

AZ Mark Station	260008
Geodetic Azimuth	89 47 57
Grid Azimuth	90 30 04

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260009	Date Monumented 4/30/2002	Monumented By AHTD	County GARLAND	Route N/A	Job Number: 060978
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	612,252.5210	
Easting (M)	292,326.7210	
Elevation (M)*	148.599	
Northing (SFT)	2,008,698.4793	
Easting (SFT)	959,075.2505	
Elevation (SFT)*	487.529	

Convergence Angle	0	39	24.5071172
Scale Factor	0.999962833		
Elevation Adjust. Factor	0.9999766805		
Combined Adjust. Factor	0.9999395144		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAN HOLE COVER	145	10.55	34.6
MK # 2	CORNER OF A ROCK HEAD WALL	110	18.20	59.7
MK # 3	LIGHT POLE	261	22.40	73.5

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>MENAPORT AZ MK</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AP 1970 STA A3 HOT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>DE QUEEN CORS</td> </tr> </table>	Ref Mon # 1	MENAPORT AZ MK	Ref Mon # 2	AP 1970 STA A3 HOT	Ref Mon # 3	DE QUEEN CORS	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	MENAPORT AZ MK							
Ref Mon # 2	AP 1970 STA A3 HOT							
Ref Mon # 3	DE QUEEN CORS							
Comments								

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 34 29.1405360
Longitude	93 10 24.6676116
Ellipsoid Height (M):	121.029
Geoid Height (M):	-27.570

Location Description
TO REACH THE STATION FROM THE U.S. POST OFFICE IN MOUNTAIN PINE, GO NORTH ON MAIN STREET FOR 0.10 MILES TO THE JUNCTION OF BLAKELY DAM ROAD AND THE STATION ON THE LEFT IN THE LAWN OF THE MOUNTAIN PINE FIRST ASSEMBLY OF GOD CHURCH. THE STATION IS 14.90 METERS NORTHEAST OF THE CENTER OF MOUNTAIN VIEW STREET, 12.10 METERS SOUTHWEST OF THE CENTER OF BLAKELY DAM ROAD, AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260009 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS RUN BY CREW S5102 FROM USC&GS BM M 161 PID EJ1062.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260009A	Date Monumented 4/29/2002	Monumented By AHTD	County GARLAND	Route N/A	Job Number: 060978
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	611,859.4399	
Easting (M)	292,355.1630	
Elevation (M)*		
Northing (SFT)	2,007,408.8457	
Easting (SFT)	959,168.5639	
Elevation (SFT)*		

Convergence Angle	0	39	23.7836682
Scale Factor	0.999962253		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	FIRE HYDRANT	234	21.70	71.2	
MK # 2	POWER POLE	15	27.30	89.6	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ MK	
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 34 16.3951752
Longitude	93 10 23.3750244
Ellipsoid Height (M):	116.337
Geoid Height (M):	-27.561

Location Description
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE IN MOUNTAIN PINE, GO SOUTH ON MAIN STREET FOR 0.14 MILES TO THE STATION ON THE LEFT. THE STATION IS 18.80 METERS NORTH OF THE CENTER OF FIFTH STREET, 8.40 METERS EAST OF THE CENTER OF MAIN STREET, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260009A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	260009
Geodetic Azimuth	355 12 18
Grid Azimuth	355 51 41

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260010	Date Monumented 4/29/2002	Monumented By AHTD	County GARLAND	Route 227	Job Number: 060978
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	608,452.4189	
Easting (M)	295,316.1720	
Elevation (M)*		
Northing (SFT)	1,996,230.9777	
Easting (SFT)	968,883.1410	
Elevation (SFT)*		

Convergence Angle	0	38	17.9345770
Scale Factor	0.999957428		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	358	13.25	43.5
MK # 2	GAS METER	348	9.45	31.0
MK # 3	FIBER OPTICS CABLE MARKER	190	8.20	26.9

Area Reference Monuments (used for Processing) Ref Mon # 1 MENAPORT AZ MK Ref Mon # 2 AP 1970 STA A3 HOT Ref Mon # 3 DE QUEEN CORS	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description	
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 227 NORTH AND U.S. HIGHWAY 270, LOCATED ON THE WEST SIDE OF HOT SPRINGS, GO NORTH ON STATE HIGHWAY 227 FOR 2.95 MILES TO THE STATION ON THE LEFT. THE STATION IS 9.25 METERS WEST OF THE CENTER OF STATE HIGHWAY 227 AND 1.00 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260010 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

AZ Mark Station	260010A
Geodetic Azimuth	180 49 03
Grid Azimuth	181 27 21

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260010A	Date Monumented 4/29/2002	Monumented By AHTD	County GARLAND	Route 227	Job Number: 060978
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	608,017.2529	
Easting (M)	295,305.1120	
Elevation (M)*		
Northing (SFT)	1,994,803.2706	
Easting (SFT)	968,846.8550	
Elevation (SFT)*		

Convergence Angle	0	38	18.0709143
Scale Factor	0.999956826		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	190	8.80	28.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260011	Date Monumented 4/29/2002	Monumented By AHTD	County GARLAND	Route 270	Job Number: 061059,CA0607
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	603,014.6329	
Easting (M)	297,866.1720	
Elevation (M)*	161.866	
Northing (SFT)	1,978,390.5081	
Easting (SFT)	977,249.2660	
Elevation (SFT)*	531.056	

Convergence Angle	0	37	20.6668753
Scale Factor	0.999950280		
Elevation Adjust. Factor	0.9999745985		
Combined Adjust. Factor	0.9999248798		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTHWEST CORNER BRIDGE	358	18.40	60.4	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ MK	Digital Levels by B&F 2/2013 from NGS A153 at HS Airport. Note: Levels do not tie with previous work completed West of the Ouachita River.
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260011A	Date Monumented 4/29/2002	Monumented By AHTD	County GARLAND	Route 270	Job Number: 061059,CA0607
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	603,382.4419	
Easting (M)	297,042.6380	
Elevation (M)*	126.924	
Northing (SFT)	1,979,597.2281	
Easting (SFT)	974,547.3882	
Elevation (SFT)*	416.417	

Convergence Angle	0	37	38.8209319
Scale Factor	0.999950731		
Elevation Adjust. Factor	0.9999800819		
Combined Adjust. Factor	0.9999308138		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	232	16.50	54.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments
Digital Levels by B&F 2/2013 from NGS A153 at HS Airport. Note: Levels do not tie with previous work completed West of the Ouachita River.

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 29 43.0069812
Longitude	93 7 15.8379816
Ellipsoid Height (M):	99.651
Geoid Height (M):	-27.256

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 227 AND U.S. HIGHWAY 270, LOCATED ON THE WEST SIDE OF HOT SPRINGS, GO EAST ON U.S. HIGHWAY 270 FOR 0.65 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.60 METERS NORTHWEST OF THE BACK OF A CONCRETE CURB, 11.50 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 270, AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260011A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260012	Date Monumented 4/30/2002	Monumented By AHTD	County GARLAND	Route 270	Job Number: 061059,CA0607
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	604,974.0039	
Easting (M)	294,342.1910	
Elevation (M)*	147.899	
Northing (SFT)	1,984,818.8778	
Easting (SFT)	965,687.6716	
Elevation (SFT)*	485.232	

Convergence Angle	0	38	38.4546120
Scale Factor	0.999952734		
Elevation Adjust. Factor	0.9999767904		
Combined Adjust. Factor	0.9999295255		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	245	2.85	9.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments
Digital Levels by B&F 2/2013 from NGS A153 at HS Airport. Note: Levels do not tie with previous work completed West of the Ouachita River.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260012A	Date Monumented 4/30/2002	Monumented By AHTD	County GARLAND	Route 270	Job Number: 061059,CA0607
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	604,967.8119	
Easting (M)	294,836.2550	
Elevation (M)*	149.674	
Northing (SFT)	1,984,798.5629	
Easting (SFT)	967,308.6133	
Elevation (SFT)*	491.056	

Convergence Angle	0	38	27.6127275
Scale Factor	0.999952734		
Elevation Adjust. Factor	0.9999765118		
Combined Adjust. Factor	0.9999292469		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CABLE POLE	92	14.20	46.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ MK	Digital Levels by B&F 2/2013 from NGS A153 at HS Airport. Note: Levels do not tie with previous work completed West of the Ouachita River.
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260013	Date Monumented 4/30/2002	Monumented By AHTD	County GARLAND	Route 270	Job Number: 061059
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	605,120.1978	
Easting (M)	289,756.1330	
Elevation (M)*		
Northing (SFT)	1,985,298.5156	
Easting (SFT)	950,641.5797	
Elevation (SFT)*		

Convergence Angle	0	40	19.1152997
Scale Factor	0.999952856		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTHEAST CORNER YELLOW METAL BUI	343	13.45	44.1	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ MK	
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 30 36.7190352
Longitude	93 12 2.2361148
Ellipsoid Height (M):	106.168
Geoid Height (M):	-27.477

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 227 AND U.S. HIGHWAY 270, LOCATED ON THE WEST SIDE OF HOT SPRINGS, GO WEST ON U.S. HIGHWAY 270 FOR 4.42 MILES TO THE STATION ON THE RIGHT. THE STATION IS 23.20 METERS WEST OF THE CENTER OF A CONCRETE ENTRANCE TO A MINI STORAGE, 10.90 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270, 9.35 METERS SOUTH OF THE BACK OF A CONCRETE CURB, AND 1.00 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260013 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	260013A
Geodetic Azimuth	276 46 39
Grid Azimuth	277 26 58

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260013A	Date Monumented 4/30/2002	Monumented By AHTD	County GARLAND	Route 270	Job Number: 061059
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	605,182.1109				
Easting (M)	289,282.6210				
Elevation (M)*					
Northing (SFT)	1,985,501.6422				
Easting (SFT)	949,088.0657				
Elevation (SFT)*					

Convergence Angle	0	40	29.5207638
Scale Factor	0.999952930		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	LIGHT POLE	209	8.40	27.6	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ MK	
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 30 38.5476048
Longitude	93 12 20.8275696
Ellipsoid Height (M):	108.207
Geoid Height (M):	-27.488

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 227 AND U.S. HIGHWAY 270, LOCATED ON THE WEST SIDE OF HOT SPRINGS, GO WEST ON U.S. HIGHWAY 270 FOR 4.75 MILES TO THE STATION ON THE RIGHT. THE STATION IS 23.70 METERS WEST OF THE CENTER OF AN ASPHALT DRIVE, 20.20 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260013A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260014	Date Monumented 4/30/2002	Monumented By AHTD	County GARLAND	Route 270	Job Number: 061059
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	604,933.3669	
Easting (M)	284,595.6780	
Elevation (M)*		
Northing (SFT)	1,984,685.5546	
Easting (SFT)	933,710.9869	
Elevation (SFT)*		

Convergence Angle	0	42	12.2913097
Scale Factor	0.999952533		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 0.69 MILES TO THE STATION ON THE LEFT. THE STATION IS 9.00 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.80 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260014 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	96	13.00	42.7
MK # 2	POWER POLE	139	15.10	49.5
MK # 3	END OF METAL GUARD RAIL	306	1.85	6.1

Area Reference Monuments (used for Processing) Ref Mon # 1 MENAPORT AZ MK Ref Mon # 2 AP 1970 STA A3 HOT Ref Mon # 3 DE QUEEN CORS	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260014A	Date Monumented 4/30/2002	Monumented By AHTD	County GARLAND	Route 270	Job Number: 061059
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	605,194.4499	
Easting (M)	284,996.7700	
Elevation (M)*		
Northing (SFT)	1,985,542.1244	
Easting (SFT)	935,026.9029	
Elevation (SFT)*		

Convergence Angle	0	42	3.5612035
Scale Factor	0.999952879		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	REINFORCED CONCRETE PIPE	28	5.80	19.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ MK	
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 30 37.2780324
Longitude	93 15 8.8497324
Ellipsoid Height (M):	127.678
Geoid Height (M):	-27.575

Location Description
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 0.40 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.45 METERS WEST OF A CONCRETE ENTRANCE, 11.40 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 270, AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260014A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	260014
Geodetic Azimuth	236 14 15
Grid Azimuth	236 56 19

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260015	Date Monumented 4/30/2002	Monumented By AHTD	County GARLAND	Route 270	Job Number: 061059
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	605,918.3979	
Easting (M)	281,058.7880	
Elevation (M)*		
Northing (SFT)	1,987,917.2771	
Easting (SFT)	922,107.0403	
Elevation (SFT)*		

Convergence Angle	0	43	30.1658397
Scale Factor	0.999953765		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WEST END METAL GUARD RAIL	34	2.40	7.9	
MK # 2	SOUTHWEST CORNER BRIDGE	276	22.10	72.5	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 MENAPORT AZ MK Ref Mon # 2 AP 1970 STA A3 HOT Ref Mon # 3 DE QUEEN CORS	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description	
TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 3.01 MILES TO THE STATION ON THE LEFT. THE STATION IS 9.00 SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260015 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

AZ Mark Station	260015A	
Geodetic Azimuth	89 22 47	
Grid Azimuth	90 06 17	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260015A	Date Monumented 4/30/2002	Monumented By AHTD	County GARLAND	Route 270	Job Number: 061059
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Zone	Zone Code	Vertical Determined By:
Arkansas South	302	NONE
Horizontal Datum	NAD 83 (1997)	
Northing (M)	605,917.5799	Elevation Datum:
Easting (M)	281,505.9880	NONE
Elevation (M)*		Geoid Datum:
Northing (SFT)	1,987,914.5934	Latitude
Easting (SFT)	923,574.2290	34 30 59.3375220
Elevation (SFT)*		Longitude
		93 17 26.0534508
		Ellipsoid Height (M):
		162.088
		Geoid Height (M):
		-27.656

Convergence Angle	0	43	20.3528469
Scale Factor	0.999953771		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 2.74 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.20 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260015A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END CONCRETE HEAD WALL	84	12.30	40.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ MK	
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260016	Date Monumented 4/30/2002	Monumented By AHTD	County GARLAND	Route 270	Job Number: 061059
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	606,444.2769	
Easting (M)	276,870.3250	
Elevation (M)*		
Northing (SFT)	1,989,642.5985	
Easting (SFT)	908,365.3913	
Elevation (SFT)*		

Convergence Angle	0	45	2.2225350
Scale Factor	0.999954391		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 5.75 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.70 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260016 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				AZ Mark Station	260016A
MK # 2					Geodetic Azimuth	75 10 44
MK # 3					Grid Azimuth	75 55 47

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ MK	
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260016A	Date Monumented 4/30/2002	Monumented By AHTD	County GARLAND	Route 270	Job Number: 061059
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	606,573.1919	
Easting (M)	277,384.6790	
Elevation (M)*		
Northing (SFT)	1,990,065.5471	
Easting (SFT)	910,052.9010	
Elevation (SFT)*		

Convergence Angle	0	44	50.9726360
Scale Factor	0.999954572		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 5.42 MILES TO THE STATION ON THE LEFT. THE STATION IS 9.60 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260016A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				AZ Mark Station	260016
MK # 2					Geodetic Azimuth	255 10 56
MK # 3					Grid Azimuth	255 55 47

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ MK	
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260017	Date Monumented 4/30/2002	Monumented By AHTD	County GARLAND	Route 270	Job Number: 061059
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	605,795.1609	
Easting (M)	273,085.4290	
Elevation (M)*		
Northing (SFT)	1,987,512.9571	
Easting (SFT)	895,947.7783	
Elevation (SFT)*		

Convergence Angle	0	46	25.0841529
Scale Factor	0.999953465		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 8.17 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.20 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270 AND 1.00 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260017 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				AZ Mark Station	260017A
MK # 2					Geodetic Azimuth	318 38 17
MK # 3					Grid Azimuth	319 24 42

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ MK	
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260017A	Date Monumented 4/30/2002	Monumented By AHTD	County GARLAND	Route 270	Job Number: 061059
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	606,101.7309	
Easting (M)	272,822.7750	
Elevation (M)*		
Northing (SFT)	1,988,518.7621	
Easting (SFT)	895,086.0543	
Elevation (SFT)*		

Convergence Angle	0	46	30.9382987
Scale Factor	0.999953865		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ MK	
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 31 1.6306752
Longitude	93 23 6.5726988
Ellipsoid Height (M):	181.981
Geoid Height (M):	-27.817

Location Description
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 8.41 MILES TO THE STATION ON THE RIGHT. THE STATION IS 8.50 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260017A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260018	Date Monumented 1/17/2003	Monumented By AHTD	County GARLAND	Route 270	Job Number: 061101,061298
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	599,967.3469	
Easting (M)	306,153.6700	
Elevation (M)*		
Northing (SFT)	1,968,392.8706	
Easting (SFT)	1,004,439.1657	
Elevation (SFT)*		

Convergence Angle	0	34	18.1968260
Scale Factor	0.999946674		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	HEADWALL	42	16.60	54.5
MK # 2	SOUTH WEST CORNER OF BRIDGE ON EAS	43	27.90	91.5
MK # 3	EDGE OF ASPH. EAST BOUND LANE	0	17.20	56.4

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD HOPE 1, LROC Ref Mon # 2 RUSSPORT Ref Mon # 3 AHTD MON 1	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 27 55.2729924
Longitude	93 1 17.3826588
Ellipsoid Height (M):	105.139
Geoid Height (M):	-26.923

Location Description
TO REACH FROM STATE HIGHWAY 270 AND HIGHWAY 128 (CARPENTER DAM ROAD) SOUTH OF HOT SPRINGS, STATION LOCATED IN SOUTH WESTERN CORNER OF INTERSECTION, NORTH OF EXIT RAMP, WEST OF HIGHWAY 128 AND SOUTH OF HIGHWAY 270 AND 0.50 SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "260018 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	260018A
Geodetic Azimuth	257 26 22
Grid Azimuth	258 00 40

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260018A	Date Monumented 1/17/2003	Monumented By AHTD	County GARLAND	Route 270	Job Number: 061101,061298,061574,061574
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	599,857.2659	
Easting (M)	305,635.2850	
Elevation (M)*	138.707	0.0121
Northing (SFT)	1,968,031.7132	
Easting (SFT)	1,002,738.4309	
Elevation (SFT)*	455.073	

Convergence Angle	0	34	29.5408364
Scale Factor	0.999946538		
Elevation Adjust. Factor	0.9999782329		
Combined Adjust. Factor	0.9999247721		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	EDGE OF CONCRET	O	1.35	4.4	
MK # 2	HEAD WALL	215	3.10	10.2	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD HOPE 1, LROC Ref Mon # 2 RUSSPORT Ref Mon # 3 AHTD MON 1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation based on three wire levels from NGS benchmark B140 during job 061101.</td> </tr> </table>	Comments	Elevation based on three wire levels from NGS benchmark B140 during job 061101.
Comments			
Elevation based on three wire levels from NGS benchmark B140 during job 061101.			

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 27 51.5322216
Longitude	93 1 37.6510152
Ellipsoid Height (M):	105.123
Geoid Height (M):	-26.937

Location Description
TO REACH FROM STATE HIGHWAY 128 AND HIGHWAY 270, SOUTH OF HOT SPRINGS, GO WEST ON HIGHWAY 270 0.30 MILES TO THE STATION ON THE RIGHT. 3.0 METERS EAST OF A NET WIRE FENCE WITH ONE STRAN BARB, 1.4 METERS NORTH OF A GUARD RAIL AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "260018A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260019	Date Monumented 1/17/2003	Monumented By AHTD	County GARLAND	Route 290	Job Number: 061101
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	595,228.8649	
Easting (M)	306,191.3600	
Elevation (M)*		
Northing (SFT)	1,952,846.7009	
Easting (SFT)	1,004,562.8203	
Elevation (SFT)*		

Convergence Angle	0	34	16.3342710
Scale Factor	0.999941356		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks							
Description			Azimuth		Distance		
					Meters	Feet	
MK # 1	POWER POLE		200		6.10	20.0	AZ Mark Station
MK # 2							Geodetic Azimuth
MK # 3							Grid Azimuth

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>AHTD HOPE 1, LROC</td> </tr> <tr> <td>Ref Mon # 2</td> <td>RUSSPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD MON 1</td> </tr> </table>	Ref Mon # 1	AHTD HOPE 1, LROC	Ref Mon # 2	RUSSPORT	Ref Mon # 3	AHTD MON 1	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	AHTD HOPE 1, LROC						
Ref Mon # 2	RUSSPORT						
Ref Mon # 3	AHTD MON 1						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 25 21.5073480
Longitude	93 1 14.0548296
Ellipsoid Height (M):	117.243
Geoid Height (M):	-26.839

Location Description
TO REACH FROM U.S. STATE HIGHWAY 128 AND STATE HIGHWAY 290, SOUTH OF HOT SPRINGS, GO WEST ON HIGHWAY 290 0.30 MILES TO THE STATION ON THE RIGHT. 1.95 METERS EAST OF A NET WIRE FENCE WITH ONE STRAN BARB, 10.90 METERS WEST OF THE CENTER OF THE HIGHWAY AND 1.70 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "260019 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260019A	Date Monumented 1/17/2003	Monumented By AHTD	County GARLAND	Route 290	Job Number: 061101
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	595,613.0559	
Easting (M)	306,204.8930	
Elevation (M)*		
Northing (SFT)	1,954,107.1676	
Easting (SFT)	1,004,607.2198	
Elevation (SFT)*		

Convergence Angle	0	34	16.1215877
Scale Factor	0.999941767		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	HEAD WALL	162	6.40	21.0	
MK # 2	POWER POLE	352	17.10	56.1	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD HOPE 1, LROC Ref Mon # 2 RUSSPORT Ref Mon # 3 AHTD MON 1	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By: NONE	
Elevation Datum: NONE	
Geoid Datum:	
Latitude	34 25 33.9799368
Longitude	93 1 13.6748280
Ellipsoid Height (M):	111.478
Geoid Height (M):	-26.846

Location Description
TO REACH FROM U.S. STATE HIGHWAY 128 AND STATE HIGHWAY 290, SOUTH OF HOT SPRINGS, GO WEST ON HIGHWAY 290 0.05 MILES TO THE STATION ON THE RIGHT. 1.50 METERS EAST OF A WHITE WOODEN THREE RAIL FENCE, 10.75 METERS WEST OF THE CENTER OF THE HIGHWAY AND 1.30 METERS WEST OF A WITNESS POST. THE STATION IS A STAMRDARD 64mm CAP STAMPED "260019A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260020A	Date Monumented 4/10/2003	Monumented By AHTD	County GARLAND	Route 70	Job Number: R60140,061330,061574,061574
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	604,316.2098	0.0030			
Easting (M)	308,179.7942	0.0020			
Elevation (M)*	137.899				
Northing (SFT)	1,982,660.7650				
Easting (SFT)	1,011,086.5415				
Elevation (SFT)*	452.423				

Convergence Angle	0	33	34.6951793
Scale Factor	0.999952070		
Elevation Adjust. Factor	0.9999783596		
Combined Adjust. Factor	0.9999304307		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	30	17.0543628
Longitude	92	59	59.6590080
Ellipsoid Height:	110.825		
Grid Northing (Meters)	604,316.2159		
Grid Easting (Meters)	308,179.7740		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAN HOLE COVER	73	1.60	5.2
MK # 2	EDGE OF ASPH. EAST BOUND LANE		7.00	23.0
MK # 3	EDGE OF ASPH WEST BOUND LANE		7.50	24.6

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR, AB8283 Ref Mon # 2 ARCM Ref Mon # 3 ARHP	Comments ****OLD ELEV (137.8958 m) BY 3-WIRE LOOP FROM NGS R 79***** Updated Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330. **NOTE: USED ELEV. FROM LEVELS AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (DIFFERENCE IN GPS ELEV. & LEVELS DUE TO ROUNDING ERROR).
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12B
Latitude	34 30 17.0541720
Longitude	92 59 59.6582160
Ellipsoid Height (M):	110.828 0.0000
Geoid Height (M):	-27.071

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 70 AND 70B (EXIT#2), EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 2.2 MILES TO THE STATION ON THE LEFT IN THE MEDIAN. THE STATION IS EAST 0.50 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "260020A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	260031
Geodetic Azimuth	
Grid Azimuth	

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260021	Date Monumented 4/10/2003	Monumented By AHTD	County GARLAND	Route N/A	Job Number: R60140
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	609,661.6696	0.0030			
Easting (M)	310,430.5535	0.0030			
Elevation (M)*	206.182				

Northing (SFT)	2,000,198.3277				
Easting (SFT)	1,018,470.9076				
Elevation (SFT)*	676.448				

Convergence Angle	0	32	46.4307700		
Scale Factor	0.999959347				
Elevation Adjust. Factor	0.9999676444				
Combined Adjust. Factor	0.9999269927				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (1997)				
Latitude	34	33	11.2315716		
Longitude	92	58	33.4252992		
Ellipsoid Height:	179.016				
Grid Northing (Meters)	609,661.6789				
Grid Easting (Meters)	310,430.5240				

Location Description					
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 70 AND MILL CREEK ROAD, EAST OF HOT SPRINGS, GO NORTH ON MILL CREEK ROAD 2.7 MILES TO DENISE LANE, TURN LEFT ON DENISE LANE AND GO 1.2 MILES TO POWER LINE CROSSING, CONTINUE ON DENISE LANE 400 FEET TO A METAL GATE AND PASS THRU GATE FOR 200 FEET AND TURN LEFT ON TO ROAD THAT ACESSES THE POWER LINE RIGHT OF WAY, TURN RIGHT ON TO POWER LINE AND GO NORTHWEST (UP THE HILL) FOR 0.3 MILES, PAST A DEER STAND ON THE LEFT AND 3 POWER POLES FROM WHERE ROAD ACESSES THE POWER LINE, TO THE STATION ON THE RIGHT IN THE MIDDLE OF THE POWER LINE RIGHT OF WAY. THE STATION IS SOUTHEAST 0.50 METERS FROM A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260021 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	METAL POWER POLE		343	8.80	28.9
MK # 2	SAWED OFF WOODEN POWER POLE		309	7.80	25.6
MK # 3	SAWED OFF WOODEN POWER POLE		351	6.60	21.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SALI, AHTD HOPE Ref Mon # 2 260001 Ref Mon # 3 LROC	3wire levels ran by S5105-S5111 in Job #R60140 from NGS R79 to K 103 in June 2005.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260021A	Date Monumented 4/10/2003	Monumented By AHTD	County GARLAND	Route N/A	Job Number: R60140
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	609,162.3700	0.0030			
Easting (M)	310,578.7747	0.0030			
Elevation (M)*	183.605				

Northing (SFT)	1,998,560.2089				
Easting (SFT)	1,018,957.1967				
Elevation (SFT)*	602.378				

Convergence Angle	0	32	43.0725588		
Scale Factor	0.999958642				
Elevation Adjust. Factor	0.9999711872				
Combined Adjust. Factor	0.9999298304				

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)				
Latitude	34	32	55.0741092		
Longitude	92	58	27.4251468		
Ellipsoid Height:					
Grid Northing (Meters)	609,162.3799				
Grid Easting (Meters)	310,578.7460				

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 70 AND MILL CREEK ROAD, EAST OF HOT SPRINGS, GO NORTH ON MILL CREEK ROAD FOR 2.7 MILES TO DENISE LANE, TURN LEFT ON DENISE LANE AND GO 1.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS NORTH 10.7 METERS FROM THE CENTERLINE OF A PRIVATE DRIVE AND EAST 6.5 METERS OF THE CENTERLINE OF DENISE LANE. THE STATION IS WEST 0.50 METERS OF A WITNESS POST AND IS A STANDARD 64mm CAP STAMPED "260021A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	GUY	214	24.50	80.4	260021
MK # 2	POWER POLE WITH GUY	212	29.80	97.8	342 55 14
MK # 3					343 27 57

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="SALI, AHTD HOPE"/> Ref Mon # 2 <input type="text" value="260001"/> Ref Mon # 3 <input type="text" value="LROC"/>	Elevation based on levels from 260021 by crew S5113 in May 2018 during job R60140.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260022	Date Monumented 11/4/2004	Monumented By AHTD	County GARLAND	Route 171	Job Number: 061156
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	595,098.1329	
Easting (M)	311,159.9880	
Elevation (M)*		
Northing (SFT)	1,952,417.7910	
Easting (SFT)	1,020,864.0606	
Elevation (SFT)*		

Convergence Angle	0	32	27.3989544
Scale Factor	0.999941269		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>LROC</td> </tr> <tr> <td>Ref Mon # 2</td> <td>UAM AFRC</td> </tr> <tr> <td>Ref Mon # 3</td> <td>DQUA</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	LROC	Ref Mon # 2	UAM AFRC	Ref Mon # 3	DQUA	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	LROC										
Ref Mon # 2	UAM AFRC										
Ref Mon # 3	DQUA										
Comments											

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 34 25 18.8296824

Longitude 92 57 59.4199728

Ellipsoid Height (M): 73.027

Geoid Height (M): -26.691

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 290 AND 171 SOUTH OF HOT SPRINGS, GO NORTH ON HIGHWAY 171 FOR 0.20 MILES TO THE STATION ON THE LEFT. 10.4 METERS SOUTH OF THE NORTH EDGE OF THE ASPHALT, 1.85 METERS SOUTH OF THE NEAR EDGE OF THE ASPHALT AND 7.60 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260022 2004" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260022A	Date Monumented 11/4/2004	Monumented By AHTD	County GARLAND	Route 171	Job Number: 061156
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	595,343.0539	
Easting (M)	311,192.4480	
Elevation (M)*		
Northing (SFT)	1,953,221.3360	
Easting (SFT)	1,020,970.5565	
Elevation (SFT)*		

Convergence Angle	0	32	26.7381341
Scale Factor	0.999941530		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 25 26.7881304
Longitude	92 57 58.2392844
Ellipsoid Height (M):	70.604
Geoid Height (M):	-26.694

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 290 AND 171 SOUTH OF HOT SPRINGS, GO NORTH ON HIGHWAY 171 FOR 0.30 MILES CROSSING A BRIDGE OVER "COPPER CREEK" TO THE STATION. 5.60 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 5.05 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260022A 2004" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LROC Ref Mon # 2 UAM AFRC Ref Mon # 3 DQUA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260023	Date Monumented 6/4/2009	Monumented By AHTD	County GARLAND	Route 5	Job Number: 061259,061428,061438
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	614,017.5869	
Easting (M)	311,701.0720	
Elevation (M)*	159.074	
Northing (SFT)	2,014,489.3664	
Easting (SFT)	1,022,639.2671	
Elevation (SFT)*	521.895	

Convergence Angle	0	32	19.4382930
Scale Factor	0.999965796		
Elevation Adjust. Factor	0.9999750367		
Combined Adjust. Factor	0.9999408336		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER BRIDGE	217	39.93	131.0
MK # 2	SOUTHWEST GATE POST	109	33.22	109.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP	Digital Levels ran by crew S5101 in July 2009 from 2nd order NGS marks 523 and W 104.
Ref Mon # 2 ARLR	
Ref Mon # 3 DQUA, CSAL	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260023A	Date Monumented 6/4/2009	Monumented By AHTD	County GARLAND	Route 5	Job Number: 061259,061428
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	614,342.2010	
Easting (M)	311,880.3110	
Elevation (M)*	158.774	
Northing (SFT)	2,015,554.3711	
Easting (SFT)	1,023,227.3203	
Elevation (SFT)*	520.912	

Convergence Angle	0	32	15.5685404
Scale Factor	0.999966297		
Elevation Adjust. Factor	0.9999750838		
Combined Adjust. Factor	0.9999413816		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END PLASTIC CULVERT	300	0.76	2.5
MK # 2	POWER POLE	242	13.96	45.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP	Digital Levels ran by crew S5101 in July 2009 from 2nd order NGS marks 523 and W 104.
Ref Mon # 2 ARLR	
Ref Mon # 3 DQUA, CSAL	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260024	Date Monumented 6/4/2009	Monumented By AHTD	County GARLAND	Route 5	Job Number: 061259,061428
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	615,312.1689	
Easting (M)	314,865.9340	
Elevation (M)*	148.563	
Northing (SFT)	2,018,736.6741	
Easting (SFT)	1,033,022.6518	
Elevation (SFT)*	487.412	

Convergence Angle	0	31	10.1854965
Scale Factor	0.999967844		
Elevation Adjust. Factor	0.9999766861		
Combined Adjust. Factor	0.9999445309		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF A BLOCK BLD	352	44.20	145.0
MK # 2	POWER POLE WITH A LIGHT AND A GUY WI	20	53.34	175.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP Ref Mon # 2 ARLR Ref Mon # 3 DQUA, CSAL	Digital Levels ran by crew S5101 in July 2009 from 2nd order NGS marks 523 and W 104.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 36 15.9390324
Longitude	92 55 41.4625980
Ellipsoid Height (M):	121.530
Geoid Height (M):	-27.030

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 128 AND STATE HIGHWAY 5, NORTHEAST OF HOT SPRINGS, GO SOUTH ON HIGHWAY 5 FOR 168.0 FEET TO THE STATION MARK ON THE RIGHT, NORTHWEST 36.0 FEET OF THE CENTERLINE OF THE HIGHWAY, 33.0 FEET SOUTHWEST OF THE CENTERLINE OF A DRIVE AND IN FRONT OF THE MASONIC TEMPLE BUILDING AND SOUTHWEST 9.9 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260024 2009" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	260024A
Geodetic Azimuth	238 40 57
Grid Azimuth	239 12 07

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260024A	Date Monumented 6/4/2009	Monumented By AHTD	County GARLAND	Route 5	Job Number: 061259,061428
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	615,047.1919	
Easting (M)	314,421.3940	
Elevation (M)*	150.648	
Northing (SFT)	2,017,867.3288	
Easting (SFT)	1,031,564.1901	
Elevation (SFT)*	494.252	

Convergence Angle	0	31	19.8973541
Scale Factor	0.999967425		
Elevation Adjust. Factor	0.9999763589		
Combined Adjust. Factor	0.9999437847		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	235	12.19	40.0
MK # 2	FENCE CORNER	57	18.53	60.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP Ref Mon # 2 ARLR Ref Mon # 3 DQUA, CSAL	Digital Levels ran by crew S5101 in July 2009 from 2nd order NGS marks 523 and W 104. ELEV UPDATED FROM 494.242 TO 494.252 DURING JOB 061428 DERIVED FROM BMS 523 AND GPS POINT 260025A.

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 128 AND STATE HIGHWAY 5, NORTHEAST OF HOT SPRINGS, GO SOUTH ON HIGHWAY 5 FOR 0.3 MILES TO THE STATION MARK ON THE LEFT, SOUTHEAST 24.0 FEET OF THE CENTERLINE OF THE HIGHWAY, AND NORTHWEST 3.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260024A 2009" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260025	Date Monumented 6/4/2009	Monumented By AHTD	County GARLAND	Route 5	Job Number: 061259,061428
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	616,625.4451	
Easting (M)	317,175.6597	
Elevation (M)*	146.138	
Northing (SFT)	2,023,045.3145	
Easting (SFT)	1,040,600.4769	
Elevation (SFT)*	479.454	

Convergence Angle	0	30	19.7036946
Scale Factor	0.999969952		
Elevation Adjust. Factor	0.9999770667		
Combined Adjust. Factor	0.9999470194		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	36	59.2273800
Longitude	92	54	11.2666680
Ellipsoid Height:	119.186		
Grid Northing (Meters)	616,625.4447		
Grid Easting (Meters)	317,175.6606		

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>DQUA, CSAL</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARHP	Ref Mon # 2	ARLR	Ref Mon # 3	DQUA, CSAL	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital Levels ran by crew S5101 in July 2009 from 2nd order NGS marks 523 and W 104. UPDATE:ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.</td> </tr> </table>	Comments	Digital Levels ran by crew S5101 in July 2009 from 2nd order NGS marks 523 and W 104. UPDATE:ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARHP										
Ref Mon # 2	ARLR										
Ref Mon # 3	DQUA, CSAL										
Comments											
Digital Levels ran by crew S5101 in July 2009 from 2nd order NGS marks 523 and W 104. UPDATE:ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.											

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID96
Latitude	34 36 59.2273944
Longitude	92 54 11.2667040
Ellipsoid Height (M):	119.150
Geoid Height (M):	-27.015

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 128 AND STATE HIGHWAY 5, NORTHEAST OF HOT SPRINGS, GO NORTH ON HIGHWAY 5 FOR 1.9 MILES TO THE STATION MARK ON THE LEFT ON TOP OF A LARGE HILL OVERLOOKING THE HIGHWAY, NORTH 66.0 FEET OF THE CENTERLINE OF THE HIGHWAY, AND SOUTH 1.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260025 2009" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260025A	Date Monumented 6/4/2009	Monumented By AHTD	County GARLAND	Route 5	Job Number: 061259,061428
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	616,683.6033	
Easting (M)	316,702.3831	
Elevation (M)*	148.198	
Northing (SFT)	2,023,236.1218	
Easting (SFT)	1,039,047.7352	
Elevation (SFT)*	486.212	

Convergence Angle	0	30	30.1126767
Scale Factor	0.999970038		
Elevation Adjust. Factor	0.9999767435		
Combined Adjust. Factor	0.9999467822		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	37	0.9786864
Longitude	92	54	29.8644876
Ellipsoid Height:	121.170		
Grid Northing (Meters)	616,683.5989		
Grid Easting (Meters)	316,702.3820		

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARHP
Ref Mon # 2	ARLR
Ref Mon # 3	DQUA, CSAL

Comments
Digital Levels ran by crew S5101 in July 2009 from 2nd order NGS marks 523 and W 104. UPDATE:ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260026	Date Monumented 8/17/2011	Monumented By AHTD	County GARLAND	Route 7	Job Number: 061329
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	605,952.6787	
Easting (M)	303,066.9840	
Elevation (M)*	191.553	
Northing (SFT)	1,988,029.7467	
Easting (SFT)	994,312.2633	
Elevation (SFT)*	628.453	

Convergence Angle	0	35	27.2416944
Scale Factor	0.999954145		
Elevation Adjust. Factor	0.9999699400		
Combined Adjust. Factor	0.9999240864		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/LIGHTS	202	5.91	19.4
MK # 2	LIGHT POLE	332	5.21	17.1
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED)</td> </tr> </table>	Comments	ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED)
Comments			
ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED)			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70, 270, AND 7, IN HOT SPRINGS, GO NORTH ON HIGHWAY 7 1.1 MILES TO THE STATION MARK ON THE RIGHT, ACROSS THE ROAD FROM THE MAJESTIC HOTEL IN EDGE OF ASPHALT PARKING LOT AND EAST 37 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 CAP STAMPED "260026 2011" ON TOP OF A 2 FOOT REBAR DRIVEN FLUSH WITH THE ASPHALT.

AZ Mark Station	260026A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260026A	Date Monumented 8/17/2011	Monumented By AHTD	County GARLAND	Route 7	Job Number: 061329
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	605,686.0497	
Easting (M)	302,736.9716	
Elevation (M)*	194.718	
Northing (SFT)	1,987,154.9814	
Easting (SFT)	993,229.5477	
Elevation (SFT)*	638.837	

Convergence Angle	0	35	34.4229130
Scale Factor	0.999953787		
Elevation Adjust. Factor	0.9999694434		
Combined Adjust. Factor	0.9999232318		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MANHOLE	248	8.47	27.8
MK # 2	GAS METER	295	7.86	25.8
MK # 3	FIRE HYDRANT	111	16.34	53.6

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED)</td> </tr> </table>	Comments	ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED)
Comments			
ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED)			

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70, 270, AND 7, IN HOT SPRINGS, GO NORTH ON HIGHWAY 7 1.1 MILES TO WHITTINGTON AVE AND TURN LEFT AND GO 0.25 MILES TO THE MARK ON THE RIGHT, AT THE CORNER OF WHITTINGTON AND WALNUT, 28.8 FEET NORTHWEST OF THE CENTERLINE OF WHITTINGTON AVE AND NORTHEAST 27.3 FEET OF THE CENTERLINE OF WALNUT STREET. THE STATION MARK IS A STANDARD 2 ½ CAP STAMPED "260026A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID96
Latitude	34 30 59.7320532
Longitude	93 3 33.5758968
Ellipsoid Height (M):	167.600
Geoid Height (M):	-27.123

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260027	Date Monumented 8/17/2011	Monumented By AHTD	County GARLAND	Route 7	Job Number: 061329
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	609,493.3959
Easting (M)	306,926.7169
Elevation (M)*	216.821
Northing (SFT)	1,999,646.2497
Easting (SFT)	1,006,975.4037
Elevation (SFT)*	711.353

Convergence Angle	0 34	3.3133715
Scale Factor	0.999959060	
Elevation Adjust. Factor	0.9999659749	
Combined Adjust. Factor	0.9999250363	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70, 270, AND 7, IN HOT SPRINGS, GO NORTH ON HIGHWAY 7 FOR 4.55 MILES TO THE MARK ON THE RIGHT, SOUTHEAST 28.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTHWEST 10.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260027 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE /W TRANSFORMER	41	8.66	28.4
MK # 2	FIRE HYDRANT	296	21.09	69.2
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 100%;" type="text"/> Ref Mon # 2 <input style="width: 100%;" type="text"/> Ref Mon # 3 <input style="width: 100%;" type="text"/>	ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED). ELEV. FROM DIGITAL LEVELS ON THIS POINT USED AS CONSTRAINT IN FINAL STATIC

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260027A	Date Monumented 8/17/2011	Monumented By AHTD	County GARLAND	Route 7	Job Number: 061329
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	609,144.7718	
Easting (M)	306,553.1060	
Elevation (M)*	205.695	
Northing (SFT)	1,998,502.4721	
Easting (SFT)	1,005,749.6486	
Elevation (SFT)*	674.851	

Convergence Angle	0	34	11.4388968
Scale Factor	0.999958562		
Elevation Adjust. Factor	0.9999677208		
Combined Adjust. Factor	0.9999262842		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	129	14.63	48.0
MK # 2	MAN HOLE	80	2.93	9.6
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED). ELEV. FROM DIGITAL LEVELS ON THIS POINT USED AS CONSTRAINT IN FINAL STATIC </td> </tr> </table>	Comments	ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED). ELEV. FROM DIGITAL LEVELS ON THIS POINT USED AS CONSTRAINT IN FINAL STATIC
Comments			
ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED). ELEV. FROM DIGITAL LEVELS ON THIS POINT USED AS CONSTRAINT IN FINAL STATIC			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70, 270, AND 7, IN HOT SPRINGS, GO NORTH ON HIGHWAY 7 FOR 4.2 MILES TO THE MARK ON THE LEFT, 66.6 FEET SOUTHWEST OF THE CENTERLINE OF AN ASPHALT DRIVE TO THE PENTECOSTAL CHURCH, NORTHWEST 20.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST 16.3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260027A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	260027
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260028	Date Monumented 8/17/2011	Monumented By AHTD	County GARLAND	Route 7	Job Number: 061329,061428,061438
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	612,694.7383	
Easting (M)	309,040.2177	
Elevation (M)*	188.948	
Northing (SFT)	2,010,149.3206	
Easting (SFT)	1,013,909.4476	
Elevation (SFT)*	619.906	

Convergence Angle	0	33	17.5975357
Scale Factor	0.999963755		
Elevation Adjust. Factor	0.9999703488		
Combined Adjust. Factor	0.9999341049		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/LIGHT & GUY	110	17.37	57.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED)
Ref Mon # 2	
Ref Mon # 3	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID96
Latitude	34 34 49.2264624
Longitude	92 59 29.1098364
Ellipsoid Height (M):	161.826
Geoid Height (M):	-27.099

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 5 AND 7, NORTHEAST OF HOT SPRINGS, GO NORTH ON HIGHWAY 7 FOR 0.6 MILES TO THE MARK ON THE LEFT, 10.6 FEET NORTH OF A 6 FOOT CHAINLINK FENCE WITH 3 STRANS OF BARB WIRE AND SOUTH 23.6 FEET OF THE EDGE OF THE ASPHALT HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260028 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260028A	Date Monumented 8/17/2011	Monumented By AHTD	County GARLAND	Route 7	Job Number: 061329,061428,061438
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Zone Arkansas South	Zone Code 302	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum: GEOID96		
Northing (M) 612,960.4842		Latitude 34 34 57.7069248
Easting (M) 308,584.9711		Longitude 92 59 47.0733180
Elevation (M)* 204.809		Ellipsoid Height (M): 177.667
		Geoid Height (M): -27.119

Northing (SFT) 2,011,021.1886		
Easting (SFT) 1,012,415.8594		
Elevation (SFT)* 671.945		

Convergence Angle 0 33 27.6515291		
Scale Factor 0.999964147		
Elevation Adjust. Factor 0.9999678598		
Combined Adjust. Factor 0.9999320079		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 5 AND 7, NORTHEAST OF HOT SPRINGS, GO NORTH ON HIGHWAY 7 FOR 0.9 MILES TO THE MARK ON THE LEFT, 84.6 FEET SOUTHEAST OF AN ASPHALT TURN IN, AND SOUTHWEST 39.0 FEET OF THE EDGE OF THE ASPHALT HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260028A 2011" ON TOP OF A 1 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	AHTD R/W MARKER 3228	137	32.92	108.0	AZ Mark Station 260028
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	Comments ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED)
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260029	Date Monumented 8/17/2011	Monumented By AHTD	County GARLAND	Route 190	Job Number: 060432,061309
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas South</td> <td>302</td> </tr> <tr> <td>Horizontal Datum</td> <td>NAD 83 (1997)</td> </tr> <tr> <td>Northing (M)</td> <td>595,582.5940</td> </tr> <tr> <td>Easting (M)</td> <td>299,173.3681</td> </tr> <tr> <td>Elevation (M)*</td> <td>139.171</td> </tr> <tr> <td>Northing (SFT)</td> <td>1,954,007.2271</td> </tr> <tr> <td>Easting (SFT)</td> <td>981,537.9585</td> </tr> <tr> <td>Elevation (SFT)*</td> <td>456.597</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Convergence Angle</td> <td style="width: 10%;">0</td> <td style="width: 10%;">36</td> <td style="width: 30%;">50.2440299</td> </tr> <tr> <td>Scale Factor</td> <td colspan="3">0.999941656</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td colspan="3">0.9999781600</td> </tr> <tr> <td>Combined Adjust. Factor</td> <td colspan="3">0.9999198173</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;"> SUPERCEDED CONTROL </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas South	302	Horizontal Datum	NAD 83 (1997)	Northing (M)	595,582.5940	Easting (M)	299,173.3681	Elevation (M)*	139.171	Northing (SFT)	1,954,007.2271	Easting (SFT)	981,537.9585	Elevation (SFT)*	456.597	Convergence Angle	0	36	50.2440299	Scale Factor	0.999941656			Elevation Adjust. Factor	0.9999781600			Combined Adjust. Factor	0.9999198173			Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Vertical Determined By:</td> <td style="width: 50%;">3rd Order - digital</td> </tr> <tr> <td>Elevation Datum:</td> <td>NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td>Geoid 09</td> </tr> <tr> <td>Latitude</td> <td>34 25 30.6312960</td> </tr> <tr> <td>Longitude</td> <td>93 5 49.0455744</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>112.009</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-27.149</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center;">Location Description</p> <p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 190 (AMITY ROAD), SOUTH OF HOT SPRINGS, GO WEST ON HIGHWAY 190 0.1 MILES TO THE MARK ON THE LEFT, SOUTH OF THE CENTERLINE OF THE HIGHWAY 19.4 FEET AND EAST 62 FEET OF THE CENTERLINE OF CORENEA CIRCLE. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260029 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p> </div>	Vertical Determined By:	3rd Order - digital	Elevation Datum:	NAVD 88	Geoid Datum:	Geoid 09	Latitude	34 25 30.6312960	Longitude	93 5 49.0455744	Ellipsoid Height (M):	112.009	Geoid Height (M):	-27.149
Zone	Zone Code																																																												
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Ellipsoid Height (M):	112.009																																																												
Geoid Height (M):	-27.149																																																												

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SIGNAL POLE	85	15.24	50.0
MK # 2				
MK # 3				

AZ Mark Station	260029A
Geodetic Azimuth	
Grid Azimuth	

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. ESTABLISHED BY B&F ENGINEERING IN NOV. OF 2011 BY DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139. ALSO TIED LOOP TO 3RD ORDER NGS MARK V 139 RESET AS CHECK BUT DID NOT CONSTRAIN (MISSED V 139 RESET BY +0.018').</td> </tr> </table>	Comments	ELEV. ESTABLISHED BY B&F ENGINEERING IN NOV. OF 2011 BY DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139. ALSO TIED LOOP TO 3RD ORDER NGS MARK V 139 RESET AS CHECK BUT DID NOT CONSTRAIN (MISSED V 139 RESET BY +0.018').
Comments			
ELEV. ESTABLISHED BY B&F ENGINEERING IN NOV. OF 2011 BY DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139. ALSO TIED LOOP TO 3RD ORDER NGS MARK V 139 RESET AS CHECK BUT DID NOT CONSTRAIN (MISSED V 139 RESET BY +0.018').			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260029A	Date Monumented 8/17/2011	Monumented By AHTD	County GARLAND	Route 7	Job Number: 060432,061309
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	594,977.3217	
Easting (M)	299,059.1774	
Elevation (M)*	128.429	
Northing (SFT)	1,952,021.4296	
Easting (SFT)	981,163.3179	
Elevation (SFT)*	421.355	

Convergence Angle	0	36	52.6047152
Scale Factor	0.999941012		
Elevation Adjust. Factor	0.9999798457		
Combined Adjust. Factor	0.9999208589		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE W/GUY	192	19.51	64.0	260029
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments ELEV. ESTABLISHED BY B&F ENGINEERING IN NOV. OF 2011 BY DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139. ALSO TIED LOOP TO 3RD ORDER NGS MARK V 139 RESET AS CHECK BUT DID NOT CONSTRAIN (MISSED V 139 RESET BY +0.018').
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260030	Date Monumented 8/18/2011	Monumented By AHTD	County GARLAND	Route 7	Job Number: 061309,060432,061440
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	591,868.7562	
Easting (M)	297,377.1782	
Elevation (M)*	160.767	
Northing (SFT)	1,941,822.7443	
Easting (SFT)	975,644.9588	
Elevation (SFT)*	527.450	

Convergence Angle	0	37	28.7281036
Scale Factor	0.999937832		
Elevation Adjust. Factor	0.9999747710		
Combined Adjust. Factor	0.9999126046		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	270	8.17	26.8
MK # 2	CMP	35	9.64	31.6
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. ESTABLISHED BY B&F ENGINEERING IN NOV. OF 2011 BY DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139. ALSO TIED LOOP TO 3RD ORDER NGS MARK V 139 RESET AS CHECK BUT DID NOT CONSTRAIN (MISSED V 139 RESET BY +0.018').</td> </tr> </table>	Comments	ELEV. ESTABLISHED BY B&F ENGINEERING IN NOV. OF 2011 BY DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139. ALSO TIED LOOP TO 3RD ORDER NGS MARK V 139 RESET AS CHECK BUT DID NOT CONSTRAIN (MISSED V 139 RESET BY +0.018').
Comments			
ELEV. ESTABLISHED BY B&F ENGINEERING IN NOV. OF 2011 BY DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139. ALSO TIED LOOP TO 3RD ORDER NGS MARK V 139 RESET AS CHECK BUT DID NOT CONSTRAIN (MISSED V 139 RESET BY +0.018').			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 290 , SOUTH OF HOT SPRINGS, GO SOUTH ON HIGHWAY 7 2.35 MILES TO THE MARK ON THE RIGHT, NORTH OF THE CENTERLINE OF THE HIGHWAY 34.5 FEET AND SOUTH 8.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260030 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	300007
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260031	Date Monumented 8/8/2011	Monumented By AHTD	County GARLAND	Route 70	Job Number: 061330
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	604,331.3229	
Easting (M)	308,904.7547	
Elevation (M)*	155.245	
Northing (SFT)	1,982,710.3485	
Easting (SFT)	1,013,465.0160	
Elevation (SFT)*	509.334	

Convergence Angle	0	33	18.7924964
Scale Factor	0.999952099		
Elevation Adjust. Factor	0.9999756375		
Combined Adjust. Factor	0.9999277377		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	AB8283
Ref Mon # 2	ARCM
Ref Mon # 3	ARHP

Comments
Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 270 (EXIT 6), EAST OF HOT SPRINGS, GO WEST ON 70 0.9 MILES TO THE MARK IN THE MEDIAN, 17.2 FEET NORTH OF THE NORTH EDGE OF THE EAST BOUND LANE AND SOUTH 1.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "260031 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	260020A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260032	Date Monumented 8/8/2011	Monumented By AHTD	County GARLAND	Route 70	Job Number: 061330
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	605,155.4879	
Easting (M)	312,380.0052	
Elevation (M)*	178.436	
Northing (SFT)	1,985,414.2966	
Easting (SFT)	1,024,866.7337	
Elevation (SFT)*	585.418	

Convergence Angle	0	32	2.7123557
Scale Factor	0.999953214		
Elevation Adjust. Factor	0.9999719984		
Combined Adjust. Factor	0.9999252137		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/GUY & TRANSFORMED	225	11.06	36.3
MK # 2	NORTHEAST CORNER METAL BUILDING	187	21.55	70.7
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AB8283	Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.
Ref Mon # 2 ARCM	
Ref Mon # 3 ARHP	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260032A	Date Monumented 8/8/2011	Monumented By AHTD	County GARLAND	Route 70	Job Number: 061330
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	604,692.6482	
Easting (M)	312,730.6815	
Elevation (M)*	165.526	
Northing (SFT)	1,983,895.7966	
Easting (SFT)	1,026,017.2442	
Elevation (SFT)*	543.063	

Convergence Angle	0	31	54.9233547
Scale Factor	0.999952614		
Elevation Adjust. Factor	0.9999740242		
Combined Adjust. Factor	0.9999266395		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	10	27.10	88.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AB8283	Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.
Ref Mon # 2 ARCM	
Ref Mon # 3 ARHP	

Vertical Determined By: 3rd Order - Digital Levels	
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 09
Latitude	34 30 30.6774108
Longitude	92 57 1.3957812
Ellipsoid Height (M):	138.614
Geoid Height (M):	-26.920

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 270 (EXIT 6), EAST OF HOT SPRINGS, GO WEST ON HIGHWAY 70 1.5 MILES TO THE MARK ON THE LEFT, 36 FEET NORTHEAST OF THE NORTH EDGE OF THE PAVEMENT FOR THE WEST BOUND LANE. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "260032A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260033	Date Monumented 8/8/2011	Monumented By AHTD	County GARLAND	Route 70	Job Number: 061330, CA0606
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	607,450.3607	
Easting (M)	316,999.9357	
Elevation (M)*	196.035	
Northing (SFT)	1,992,943.3917	
Easting (SFT)	1,040,023.9557	
Elevation (SFT)*	643.157	

Convergence Angle	0	30	21.7838816
Scale Factor	0.999956345		
Elevation Adjust. Factor	0.9999692367		
Combined Adjust. Factor	0.9999255831		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF HEADWALL	337	4.15	13.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260033A	Date Monumented 8/8/2011	Monumented By AHTD	County GARLAND	Route 70	Job Number: 061330, CA0606
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	607,750.4887	
Easting (M)	317,597.5886	
Elevation (M)*	208.961	
Northing (SFT)	1,993,928.0617	
Easting (SFT)	1,041,984.7553	
Elevation (SFT)*	685.567	

Convergence Angle	0	30	8.7243264
Scale Factor	0.999956764		
Elevation Adjust. Factor	0.9999672083		
Combined Adjust. Factor	0.9999239737		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WATER HYDRANT	170	14.11	46.3	260033
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR, AB8283	Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330. **NOTE: USED ELEV. FROM LEVELS AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (DIFFERENCE IN GPS ELEV. & LEVELS DUE TO ROUNDING ERROR).
Ref Mon # 2 ARCM	
Ref Mon # 3 ARHP	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260034	Date Monumented 8/8/2011	Monumented By AHTD	County GARLAND	Route 70	Job Number: 061330, CA0606
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	609,837.0770	
Easting (M)	322,375.4399	
Elevation (M)*	167.940	
Northing (SFT)	2,000,773.8101	
Easting (SFT)	1,057,660.0891	
Elevation (SFT)*	550.984	

Convergence Angle	0	28	24.2343167
Scale Factor	0.999959749		
Elevation Adjust. Factor	0.9999736454		
Combined Adjust. Factor	0.9999333955		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR, AB8283 Ref Mon # 2 ARCM Ref Mon # 3 ARHP	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.</td> </tr> </table>	Comments	Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.
Comments			
Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 270 (EXIT 6), EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 8.6 MILES TO THE MARK ON THE LEFT, 5.5 FEET NORTH OF THE NORTH EDGE OF THE PAVEMENT FOR THE WEST BOUND LANE, 33.4 FEET WEST OF THE CENTERLINE OF COUNTY ROAD 369 AND SOUTH 51.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "260034 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	260034A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260034A	Date Monumented 8/8/2011	Monumented By AHTD	County GARLAND	Route 70	Job Number: 061330, CA0606
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	609,881.1758	
Easting (M)	322,847.8727	
Elevation (M)*	155.622	
Northing (SFT)	2,000,918.4909	
Easting (SFT)	1,059,210.0623	
Elevation (SFT)*	510.569	

Convergence Angle	0	28	13.8705527
Scale Factor	0.999959817		
Elevation Adjust. Factor	0.9999755785		
Combined Adjust. Factor	0.9999353964		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 270 (EXIT 6), EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 8.9 MILES TO THE MARK ON THE LEFT, 4.0 FEET NORTH OF THE NORTH EDGE OF THE PAVEMENT FOR THE WEST BOUND LANE, AND SOUTH 46.2 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260034A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF HEADWALL	302	5.33	17.5
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARLR, AB8283</p> <p>Ref Mon # 2 ARCM</p> <p>Ref Mon # 3 ARHP</p>	<p style="text-align: center;">Comments</p> <p>Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260035	Date Monumented 7/14/2014	Monumented By AHTD	County GARLAND	Route 7	Job Number: 061438
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	623,804.4991 0.0060
Easting (M)	301,760.2274 0.0058
Elevation (M)*	226.400
Northing (SFT)	2,046,598.5941
Easting (SFT)	990,025.0127
Elevation (SFT)*	742.780

Convergence Angle	0	36	0.0194786
Scale Factor	0.999981789		
Elevation Adjust. Factor	0.9999644718		
Combined Adjust. Factor	0.9999462614		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	272	2.15	7.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	ELEV IS BASED OFF OF 3RD ORDER DIGITAL LEVELS FROM AHTD GPS MON 260028A AND NGS BMS K103 AND L103 DURING JOB 061438 BY CREW SS102 IN JULY 2014.

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID96
Latitude	34 40 47.3685960
Longitude	93 4 19.3093104
Ellipsoid Height (M):	198.827 0.0104
Geoid Height (M):	-27.588

Location Description
<p>TO REACH FROM THE JUNCTION OF HIGHWAY 298 AND HIGHWAY 7 IN BLUE SPRINGS. GO NORTH ON HIGHWAY 7 FOR 0.1 MILES TO THE STATION ON THE LEFT. THE STATION IS 1.0 FT. EAST OF A WITNESS POST, 54.8 FT. WEST OF THE CENTERLINE OF HIGHWAY 7, AND 98.4 FT. NORTH OF A GRAVEL DRIVEWAY. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "260035 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260035A	Date Monumented 7/14/2014	Monumented By AHTD	County GARLAND	Route 7	Job Number: 061438
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	623,451.5768	0.0067			
Easting (M)	301,674.2942	0.0061			
Elevation (M)*	229.377				
Northing (SFT)	2,045,440.7149				
Easting (SFT)	989,743.0802				
Elevation (SFT)*	752.546				

Convergence Angle	0	36	1.8274463
Scale Factor	0.999981164		
Elevation Adjust. Factor	0.9999640046		
Combined Adjust. Factor	0.9999451693		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SE CORNER OF BUILDING	4	38.80	127.3
MK # 2	EAST POST OF BILLBOARD "COLEMAN'S ROCK SHOP AND CRYSTAL MINE"	318	7.70	25.3
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV IS BASED OFF OF 3RD ORDER DIGITAL LEVELS FROM AHTD GPS MON 260028A AND NGS BMS K103 AND L103 DURING JOB 061438 BY CREW SS102 IN JULY 2014.</td> </tr> </table>	Comments	ELEV IS BASED OFF OF 3RD ORDER DIGITAL LEVELS FROM AHTD GPS MON 260028A AND NGS BMS K103 AND L103 DURING JOB 061438 BY CREW SS102 IN JULY 2014.
Comments			
ELEV IS BASED OFF OF 3RD ORDER DIGITAL LEVELS FROM AHTD GPS MON 260028A AND NGS BMS K103 AND L103 DURING JOB 061438 BY CREW SS102 IN JULY 2014.			

Location Description
TO REACH FROM THE JUNCTION OF HIGHWAY 298 AND HIGHWAY 7 IN BLUE SPRINGS. GO SOUTH ON HIGHWAY 7 FOR 0.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS 1.0 FT. EAST OF A WITNESS POST, AND 36.4 FT. WEST OF THE CENTERLINE OF HIGHWAY 7. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "260035A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

AZ Mark Station	260035
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260036	Date Monumented 7/12/2016	Monumented By AHTD	County GARLAND	Route 7	Job Number: 061501
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	633,012.9604 0.0040
Easting (M)	301,630.1224 0.0040
Elevation (M)*	271.509
Northing (SFT)	2,076,810.0209
Easting (SFT)	989,598.1599
Elevation (SFT)*	890.775

Convergence Angle	0	36	5.0049948
Scale Factor	0.999999148		
Elevation Adjust. Factor	0.9999573932		
Combined Adjust. Factor	0.9999565413		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARHP Ref Mon # 3 ARCM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS FROM NGS 2ND ORDER BM T 103 BY S5112 IN JULY 2016 FOR JOB # 061501.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM NGS 2ND ORDER BM T 103 BY S5112 IN JULY 2016 FOR JOB # 061501.
Comments			
ELEV. BASED ON DIGITAL LEVELS FROM NGS 2ND ORDER BM T 103 BY S5112 IN JULY 2016 FOR JOB # 061501.			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF THE PERRY/GARLAND COUNTY LINE AND STATE HIGHWAY 7, NORTH OF JESSIEVILLE, GO SOUTH ON HIGHWAY 7 FOR 0.8 MILES TO THE MARK ON THE LEFT, NOERTHEAST 15 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "260036 2016" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	260036A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260036A	Date Monumented 7/12/2016	Monumented By AHTD	County GARLAND	Route 7	Job Number: 061501
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	633,228.1497	0.0040			
Easting (M)	301,424.1522	0.0040			
Elevation (M)*	273.961				

Northing (SFT)	2,077,516.0211				
Easting (SFT)	988,922.4060				
Elevation (SFT)*	898.822				

Convergence Angle	0	36	9.5876365		
Scale Factor	0.999999575				
Elevation Adjust. Factor	0.9999570084				
Combined Adjust. Factor	0.9999565834				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF THE PERRY/GARLAND COUNTY LINE AND STATE HIGHWAY 7, NORTH OF JESSIEVILLE, GO SOUTH ON HIGHWAY 7 FOR 0.6 MILES TO THE MARK ON THE LEFT, NOERTEAST 18.2 FEET OF THE CENTERLINE OF THE HIGHWAY, 27 FEET SOUTHEAST OF THE CENTERLINE OF AN ASPHALT TURN IN, 103.5 FEET NORTHWEST OF THE CENTERLINE OF AN ASPHALT TURNIN AND SOUTHWEST 55.7 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "260036A 2016" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	JESSIEVILLE CCC SIGN		70	66.30	217.5
MK # 2	NORTHWEST END OF A ROCK WALL		76	86.00	282.2
MK # 3					

Area Reference Monuments (used for Processing)		
Ref Mon # 1	ARLR	
Ref Mon # 2	ARHP	
Ref Mon # 3	ARCM	

Comments
<p>ELEV. BASED ON DIGITAL LEVELS FROM NGS 2ND ORDER BM T 103 BY S5112 IN JULY 2016 FOR JOB # 061501.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260037	Date Monumented 11/30/2020	Monumented By ARDOT	County GARLAND	Route RAND A	Job Number: 06X151
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	605,927.8521 0.0020
Easting (M)	305,399.6876 0.0020
Elevation (M)*	

Northing (SFT)	1,987,948.2948	
Easting (SFT)	1,001,965.4751	
Elevation (SFT)*		

Convergence Angle	0	34	36.0474065
Scale Factor	0.999954144		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ Ref Mon # 2 ARGS Ref Mon # 3 ARLR, ARRV	

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 34 31 8.4610488

Longitude 93 1 49.2763116

Ellipsoid Height (M): 138.945 0.0060

Geoid Height (M): -27.186 0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 SPUR AND EAST 70B (E GRAND AVE), NORTHEAST OF HOT SPRINGS, GO EAST ON E70B (E GRAND AVE) FOR 0.15 MILES TO THE MARK ON THE RIGHT, SOUTH 32.1' OF THE C/L OF THE HIGHWAY AT THE TOP OF A BLUFF AND WEST 94.4' OF THE C/L OF A DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 260037" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260037A	Date Monumented 11/30/2020	Monumented By ARDOT	County GARLAND	Route RAND A	Job Number: 06X151
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	605,984.2101	0.0020			
Easting (M)	305,833.7671	0.0020			
Elevation (M)*					
Northing (SFT)	1,988,133.1960				
Easting (SFT)	1,003,389.6176				
Elevation (SFT)*					

Convergence Angle	0	34	26.5343618		
Scale Factor	0.999954225				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	LIGHT POLE		27	9.08	29.8
MK # 2	CITY LIFE CHURCH SIGN		81	28.41	93.2
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARDQ Ref Mon # 2 ARGS Ref Mon # 3 ARLR, ARRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 34 31 10.4314548

Longitude 93 1 32.2793436

Ellipsoid Height (M): 149.630 0.0060

Geoid Height (M): -27.174 0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 SPUR AND E GRAND AVE, NORTHEAST OF HOT SPRINGS, GO EAST ON E GRAND AVE FOR 0.45 MILES TO THE MARK ON THE LEFT, NORTH 17" OF THE C/L OF E GRAND AVE. AND WEST 41.6' OF THE C/L OF A DRIVEWAY TO THE CITY OF LIFE CHURCH. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 260037A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270001	Date Monumented 3/22/1994	Monumented By AHTD	County GRANT	Route 291	Job Number: 001730
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	596,762.0069	
Easting (M)	346,928.0470	
Elevation (M)*	105.071	
Northing (SFT)	1,957,876.6843	
Easting (SFT)	1,138,213.1009	
Elevation (SFT)*	344.720	

Convergence Angle	0	19	23.5806597
Scale Factor	0.999943368		
Elevation Adjust. Factor	0.9999835112		
Combined Adjust. Factor	0.9999268801		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	245	20.10	65.9
MK # 2	GAS METER	55	18.00	59.1
MK # 3	GAS METER	139	20.10	65.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SALIPOINT	Cross Reference Job: RX0026
Ref Mon # 2 MALEPOINT	
Ref Mon # 3 93620004	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 26 21.5829096
Longitude	92 34 38.9709156
Ellipsoid Height (M):	77.939
Geoid Height (M):	-27.132

Location Description
<p>FROM THE JCT. OF HWY. 190 AND HWY. 291 IN THE TOWN OF TULL, GO SOUTH ON HWY. 291 FOR 0.16 KM (0.10 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 6.30 METERS WEST OF THE CENTERLINE OF HWY. 291 AND 0.25 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "270001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270001A	Date Monumented 3/22/1994	Monumented By AHTD	County GRANT	Route 291	Job Number: 001730
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	596,746.6839				
Easting (M)	346,549.2700				
Elevation (M)*	105.211				
Northing (SFT)	1,957,826.4121				
Easting (SFT)	1,136,970.3967				
Elevation (SFT)*	345.180				

Convergence Angle	0	19	31.8831021
Scale Factor	0.999943349		
Elevation Adjust. Factor	0.9999834892		
Combined Adjust. Factor	0.9999268392		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	185	17.55	57.6
MK # 2	POWER POLE	220	23.80	78.1
MK # 3	THIRTY SIX INCH PIN OAK TREE	310	25.30	83.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="SALIPOINT"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="MALEPORT"/> Ref Mon # 3 <input style="width: 150px;" type="text" value="93620004"/>	Cross Reference Job: RX0026

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude

Longitude

Ellipsoid Height (M):

Geoid Height (M):

Location Description

FROM THE JCT. OF HWY. 190 AND HWY. 291 IN THE TOWN OF TULL, GO WEST ON HWY. 291 FOR 0.56 KM (0.35 MILES) TO THE STATION ON THE LEFT IN FRONT OF A BRICK HOUSE. THE STATION IS 8.50 METERS EAST OF THE CENTERLINE OF HWY. 291 AND 1.75 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "270001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270002	Date Monumented 1/7/1997	Monumented By AHTD	County GRANT	Route 167	Job Number: 070244, RX0028
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	563,417.3630	
Easting (M)	362,643.5150	
Elevation (M)*	55.387	
Northing (SFT)	1,848,478.4651	
Easting (SFT)	1,189,772.9321	
Elevation (SFT)*	181.716	

Convergence Angle	0	13	36.1372470
Scale Factor	0.999920141		
Elevation Adjust. Factor	0.9999913080		
Combined Adjust. Factor	0.9999114497		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	0.60 METER DIAMETER PINE	87	29.04	95.3
MK # 2	POWER POLE	10	29.07	95.4
MK # 3	WOODED LINE POST	172	11.57	37.9

<table style="width: 100%;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>MALEPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>WARRPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>TULIP</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	MALEPORT	Ref Mon # 2	WARRPORT	Ref Mon # 3	TULIP	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3-WIRE LEVELS USING USC&GS BENCH MARK "TT 8 CHC" ELEVATION = 52.420 METERS NGVD29. VERTCON WAS USED TO CONVERT THE ELEVATION FROM NGVD29 DATUM TO NAVD88 DATUM AFTER THE LEVELS WERE RUN.</td> </tr> </table>	Comments	ELEVATION BY 3-WIRE LEVELS USING USC&GS BENCH MARK "TT 8 CHC" ELEVATION = 52.420 METERS NGVD29. VERTCON WAS USED TO CONVERT THE ELEVATION FROM NGVD29 DATUM TO NAVD88 DATUM AFTER THE LEVELS WERE RUN.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	MALEPORT										
Ref Mon # 2	WARRPORT										
Ref Mon # 3	TULIP										
Comments											
ELEVATION BY 3-WIRE LEVELS USING USC&GS BENCH MARK "TT 8 CHC" ELEVATION = 52.420 METERS NGVD29. VERTCON WAS USED TO CONVERT THE ELEVATION FROM NGVD29 DATUM TO NAVD88 DATUM AFTER THE LEVELS WERE RUN.											

Location Description	
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167, 270 AND STATE HIGHWAY 46, LOCATED IN SHERIDAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 19.51 KM (12.12 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.772 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167, 12.520 METERS SOUTH OF THE CENTER OF A PASTURE ENTRANCE AND 1.25 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270002 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270002A	Date Monumented 1/7/1997	Monumented By AHTD	County GRANT	Route 167	Job Number: 070244, RX0028
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	563,028.3550	
Easting (M)	362,623.9730	
Elevation (M)*	55.465	
Northing (SFT)	1,847,202.1947	
Easting (SFT)	1,189,708.8181	
Elevation (SFT)*	181.971	

Convergence Angle	0	13	36.5305387
Scale Factor	0.999920031		
Elevation Adjust. Factor	0.9999912958		
Combined Adjust. Factor	0.9999113275		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH IN TOP OF GUARD RAIL POST	351	4.46	14.6
MK # 2	PUNCH IN TOP OF GUARD RAIL POST	254	1.46	4.8
MK # 3	PUNCH IN TOP OF GUARD RAIL POST	201	5.44	17.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MALEPORT	ELEVATION BY 3-WIRE LEVELS USING USC&GS BENCH MARK "TT 8 CHC" ELEVATION = 52.420 METERS NGVD29. VERTCON WAS USED TO CONVERT THE ELEVATION FROM NGVD29 DATUM TO NAVD88 DATUM AFTER THE LEVELS WERE RUN.
Ref Mon # 2 WARRPORT	
Ref Mon # 3 TULIP	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 8 9.1844592
Longitude	92 24 18.8960616
Ellipsoid Height (M):	28.745
Geoid Height (M):	-26.720

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167, 270 AND STATE HIGHWAY 46, LOCATED IN SHERIDAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 19.88 KM (12.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.85 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167, 4.75 METERS SOUTH OF THE SOUTHEAST CORNER OF A BRIDGE AND 0.39 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "270003A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	270002
Geodetic Azimuth	2 38 56.38432
Grid Azimuth	2 52 32.91536

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270003A	Date Monumented 1/7/1997	Monumented By AHTD	County GRANT	Route 167	Job Number: 001914, RX0028
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	568,673.3799	
Easting (M)	363,028.3260	
Elevation (M)*	79.092	
Northing (SFT)	1,865,722.5806	
Easting (SFT)	1,191,035.4329	
Elevation (SFT)*	259.488	

Convergence Angle	0	13	28.1801823
Scale Factor	0.999921992		
Elevation Adjust. Factor	0.9999875880		
Combined Adjust. Factor	0.9999095810		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone junction box	089	38.67	126.9
MK # 2	30 inch CMP	158	75.72	248.4
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM, IULM,S 197,K 124 Ref Mon # 2 700014,270005 070003,0700 Ref Mon # 3 T 83 N 81 070005 LROC UAM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.</td> </tr> </table>	Comments	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
Comments			
3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, 270 AND STATE HIGHWAY 46, LOCATED IN SHERIDAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 14.00 KM (8.70 MI) TO THE STATION ON THE RIGHT. THE STATION IS 80.98 METERS NORTH OF THE CENTER OF A GRAVEL DRIVE WAY, 21.10 METERS EAST OF A WEB WIRE FENCE, 17.476 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270003A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270004	Date Monumented 1/7/1997	Monumented By AHTD	County GRANT	Route 167	Job Number: 001914, RX0028
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	571,501.0789	
Easting (M)	362,301.3800	
Elevation (M)*	82.040	
Northing (SFT)	1,874,999.7897	
Easting (SFT)	1,188,650.4442	
Elevation (SFT)*	269.159	

Convergence Angle	0	13	44.3176740
Scale Factor	0.999923268		
Elevation Adjust. Factor	0.9999871255		
Combined Adjust. Factor	0.9999103944		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	South end of 18 in. CMP	076	36.43	119.5
MK # 2	North end of 18in. CMP	115	31.52	103.4
MK # 3	Fire hydrant	193	62.50	205.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 12 44.1377424
Longitude	92 24 32.8093452
Ellipsoid Height (M):	55.984
Geoid Height (M):	-25.997

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167, 270 AND STATE HIGHWAY 46, LOCATED IN SHERIDAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 10.88 KM (6.76 MI) TO THE STATION ON THE RIGHT. THE STATION IS 66.578 METERS NORTH OF THE CENTER OF A CONCRETE DRIVE WAY, 17.181 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 1.02 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270004 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270004A	Date Monumented 1/7/1997	Monumented By AHTD	County GRANT	Route 167	Job Number: 001914
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	571,115.8699	
Easting (M)	362,216.4910	
Elevation (M)*	79.968	
Northing (SFT)	1,873,735.9832	
Easting (SFT)	1,188,371.9376	
Elevation (SFT)*	262.361	

Convergence Angle	0	13	46.1401005
Scale Factor	0.999923083		
Elevation Adjust. Factor	0.9999874506		
Combined Adjust. Factor	0.9999105346		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	16 inch pine	028	14.55	47.7	270004
MK # 2	15 inch pine	162	12.84	42.1	012 11 54
MK # 3					012 25 40

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124	3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270010	Date Monumented 1/15/2003	Monumented By AHTD	County GRANT	Route 46	Job Number: 020328
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	572,260.1399	
Easting (M)	350,021.4430	
Elevation (M)*		
Northing (SFT)	1,877,490.1423	
Easting (SFT)	1,148,362.0176	
Elevation (SFT)*		

Convergence Angle	0	18	12.9141966
Scale Factor	0.999923616		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 13 6.9216060
Longitude	92 32 32.7110640
Ellipsoid Height (M):	27.528
Geoid Height (M):	-26.105

Location Description
<p>TO REACH THE STATION FROM U.S. STATE HIGHWAY 46 AND 291, WEST OF SHERIDAN, GO WEST ON HIGHWAY 46 1.40 MILES TO THE STATION ON THE RIGHT. 5.80 METERS NORTH WEST OF THE CENTER OF THE HIGHWAY AND 6.65 METERS SOUTH EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "270010 2003" ON TOIP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	226	23.40	76.8	270010A
MK # 2					209 06 18
MK # 3					209 24 31

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LROC, AHTD MON 1	
Ref Mon # 2 AHTD HOPE 1	
Ref Mon # 3 De Queen CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270010A	Date Monumented 1/15/2003	Monumented By AHTD	County GRANT	Route 46	Job Number: 020328
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	571,774.4760	
Easting (M)	349,747.6890	
Elevation (M)*		
Northing (SFT)	1,875,896.7600	
Easting (SFT)	1,147,463.8763	
Elevation (SFT)*		

Convergence Angle	0	18	18.8438664
Scale Factor	0.999923374		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	288	6.50	21.3	270010
MK # 2					29 06 12
MK # 3					29 24 31

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LROC, AHTD MON 1	
Ref Mon # 2 AHTD HOPE 1	
Ref Mon # 3 De Queen CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270011	Date Monumented 5/5/2003	Monumented By AHTD	County GRANT	Route 291	Job Number: 020328
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	577,151.0189	
Easting (M)	349,471.0760	
Elevation (M)*	72.117	
Northing (SFT)	1,893,536.3012	
Easting (SFT)	1,146,556.3552	
Elevation (SFT)*	236.605	

Convergence Angle	0	18	25.5224353
Scale Factor	0.999926375		
Elevation Adjust. Factor	0.9999886826		
Combined Adjust. Factor	0.9999150584		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	X-TIE GATE POST	57	3.00	9.8	AZ Mark Station 270011A
MK # 2	POWER POLE	170	9.50	31.2	Geodetic Azimuth 183 55 01
MK # 3	MAIL BOX #3743	203	9.40	30.8	Grid Azimuth 184 13 26

Area Reference Monuments (used for Processing) Ref Mon # 1 LROC, AHTD MON 1 Ref Mon # 2 AHTD HOPE 1 Ref Mon # 3 De Queen CORS	Comments DIGITAL LEVELS WERE RAN BY CREW S5102 FROM USGS BM WLE 1936 DURING JOB 020543 IN SEPT. 2012.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270011A	Date Monumented 5/5/2003	Monumented By AHTD	County GRANT	Route 291	Job Number: 020328
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	576,450.2549	
Easting (M)	349,419.3200	
Elevation (M)*	74.805	
Northing (SFT)	1,891,237.2113	
Easting (SFT)	1,146,386.5524	
Elevation (SFT)*	245.423	

Convergence Angle	0	18	26.5725297
Scale Factor	0.999925943		
Elevation Adjust. Factor	0.9999882608		
Combined Adjust. Factor	0.9999142046		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	X-TIE FENCE CORNER POST	133	8.80	28.9
MK # 2	POWER POLE WITH TWO GUYS	168	29.00	95.1
MK # 3	METAL GATE	280	18.70	61.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LROC, AHTD MON 1	DIGITAL LEVELS WERE RAN BY CREW S5102 FROM USGS BM WLE 1936 DURING JOB 020543 IN SEPT. 2012.
Ref Mon # 2 AHTD HOPE 1	
Ref Mon # 3 De Queen CORS	

Vertical Determined By: NONE	
Elevation Datum: NONE	
Geoid Datum:	
Latitude	34 15 22.8111552
Longitude	92 32 57.1144236
Ellipsoid Height (M):	41.995
Geoid Height (M):	-26.106

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 46 AND HIGHWAY 291, SOUTH WEST OF SHERIDAN, AND NORTH EAST OF LEOLA, GO NORTH ON HIGHWAY 291 FOR 1.95 MILES TO THE STATION ON THE RIGHT. 6.5 METERS EAST OF THE CENTERLINE OF HIGHWAY 291 AND 6.3 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270011A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270013	Date Monumented 3/30/2005	Monumented By AHTD	County GRANT	Route 270	Job Number: 020275
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	581,990.6039	
Easting (M)	364,142.3250	
Elevation (M)*	71.846	
Northing (SFT)	1,909,414.1730	
Easting (SFT)	1,194,690.2779	
Elevation (SFT)*	235.713	

Convergence Angle	0	13	4.9368206
Scale Factor	0.999929738		
Elevation Adjust. Factor	0.9999887252		
Combined Adjust. Factor	0.9999184640		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	18	24.8275404
Longitude	92	23	22.4373264
Ellipsoid Height:	45.984		
Grid Northing (Meters)	581,990.9039		
Grid Easting (Meters)	364,142.5870		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHAINLINK FENCE CORNER	260	6.80	22.3
MK # 2	NORTHEAST CORNER OF WOOD BLDGING	214	27.05	88.7
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 LROC, DQUA Ref Mon # 2 CSAL Ref Mon # 3 270006,270006A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.</td> </tr> </table>	Comments	3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.
Comments			
3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND STATE HIGHWAY 270, IN SHERIDAN, GO EAST ON HIGHWAY 270 0.55 MILES TO THE STATION MARK ON THE RIGHT, NORTH 20.95 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270013 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND.	

AZ Mark Station	270013A
Geodetic Azimuth	65 29 56
Grid Azimuth	65 43 01

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270013A	Date Monumented 3/30/2005	Monumented By AHTD	County GRANT	Route 270	Job Number: 020275
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	582,207.4399	
Easting (M)	364,622.9460	
Elevation (M)*	74.109	
Northing (SFT)	1,910,125.5757	
Easting (SFT)	1,196,267.1153	
Elevation (SFT)*	243.139	

Convergence Angle	0	12	54.4337836
Scale Factor	0.999929902		
Elevation Adjust. Factor	0.9999883700		
Combined Adjust. Factor	0.9999182728		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	18	31.9239900
Longitude	92	23	3.6715200
Ellipsoid Height:	48.248		
Grid Northing (Meters)	582,207.7385		
Grid Easting (Meters)	364,623.2084		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	GAS METER		222	19.80	65.0
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 LROC, DQUA Ref Mon # 2 CSAL Ref Mon # 3 270006,270006A	Comments 3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 18 31.9142664
Longitude	92 23 3.6817404
Ellipsoid Height (M):	48.238
Geoid Height (M):	-25.953

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND STATE HIGHWAY 270, IN SHERIDAN, GO WEST ON HIGHWAY 270 0.9 MILES TO THE STATION MARK ON THE LEFT, ACROSS THE ROAD FROM THE AHTD GRANT COUNTY MAINTENANCE YARD, EAST 16.9 METERS OF AN ASPH. TURN IN, WEST 18.2 METERS OF AN ASPH. TURN IN, SOUTH 14.9 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270013A 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND.

AZ Mark Station	270013
Geodetic Azimuth	245 30 07
Grid Azimuth	245 43 01

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270014	Date Monumented 3/30/2005	Monumented By AHTD	County GRANT	Route 167	Job Number: 020275,020610
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	575,510.9740	
Easting (M)	363,044.3700	
Elevation (M)*	75.636	
Northing (SFT)	1,888,155.5872	
Easting (SFT)	1,191,088.0706	
Elevation (SFT)*	248.149	

Convergence Angle	0	13	28.4152732
Scale Factor	0.999925420		
Elevation Adjust. Factor	0.9999881304		
Combined Adjust. Factor	0.9999135513		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	14	54.3885216
Longitude	92	24	4.3863192
Ellipsoid Height:	49.753		
Grid Northing (Meters)	575,511.2732		
Grid Easting (Meters)	363,044.6318		

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE	50	13.40	44.0	AZ Mark Station 270005
MK # 2	TELEPHONE RISER	38	17.30	56.8	Geodetic Azimuth 18 09 57
MK # 3					Grid Azimuth 18 23 25

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LROC, DQUA Ref Mon # 2 CSAL Ref Mon # 3 270006,270006A	3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270015	Date Monumented 4/4/2005	Monumented By AHTD	County GRANT	Route 167	Job Number: 020275,020344
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	588,198.9079	
Easting (M)	364,505.3280	
Elevation (M)*	96.791	
Northing (SFT)	1,929,782.5837	
Easting (SFT)	1,195,881.2303	
Elevation (SFT)*	317.555	

Convergence Angle	0	12	57.5029071
Scale Factor	0.999934848		
Elevation Adjust. Factor	0.9999848106		
Combined Adjust. Factor	0.9999196596		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	21	46.3645188
Longitude	92	23	9.1549608
Ellipsoid Height:	70.841		
Grid Northing (Meters)	588,199.2038		
Grid Easting (Meters)	364,505.5945		

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	UNDERGROUND CABLE MARKER	94	8.80	28.9	
MK # 2	NORTH END OF PIPE GATE	289	36.90	121.1	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 LROC, DQUA Ref Mon # 2 CSAL Ref Mon # 3 270006,270006A	Comments 3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.
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Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 AND STATE HIGHWAY 35W, IN SHERIDAN, GO NORTH ON STATE HIGHWAY 167 3.75 MILES TO THE STATION MARK ON THE LEFT, NORTHWEST 35.30 METERS OF THE CENTERLINE OF THE HIGHWAY, NORTH OF THE CENTERLINE OF A GRAVEL TAR ROAD 7.0 METERS AND SOUTHEAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270015 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND.

AZ Mark Station	270015A
Geodetic Azimuth	192 39 51
Grid Azimuth	192 52 48

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270016	Date Monumented 10/6/2005	Monumented By AHTD	County GRANT	Route 167	Job Number: 020275
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	575,526.1990	
Easting (M)	360,306.3790	
Elevation (M)*	85.592	
Northing (SFT)	1,888,205.5379	
Easting (SFT)	1,182,105.1784	
Elevation (SFT)*	280.812	

Convergence Angle	0	14	28.3103506
Scale Factor	0.999925423		
Elevation Adjust. Factor	0.9999865680		
Combined Adjust. Factor	0.9999119920		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270016A	Date Monumented 10/6/2005	Monumented By AHTD	County GRANT	Route 167	Job Number: 020275
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	575,897.3359		
Easting (M)	360,549.2660		
Elevation (M)*	87.609		
Northing (SFT)	1,889,423.1762		
Easting (SFT)	1,182,902.0502		
Elevation (SFT)*	287.432		

Convergence Angle	0	14	23.0311526
Scale Factor	0.999925643		
Elevation Adjust. Factor	0.9999862514		
Combined Adjust. Factor	0.9999118955		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach the station from the junction of highways 46,270 and 167 in Sheridan go south on Hwy-167 for 0.45 miles to Grant county road 9 on the right. Turn right on county road 9 and go 4.10 miles to the station on the right. 5.80 meters West of the center of county road 9 and 0.50 meters East of a witness post. The station mark is a standard 64mm cap stamped "270016A 2005" set on top of an iron rod 1.22 meters long and is below the grounds surface.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						270016
MK # 2						212 57 46
MK # 3						213 12 09

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270017	Date Monumented 10/6/2005	Monumented By AHTD	County GRANT	Route 46	Job Number: 020275, 020610
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	579,263.0479	
Easting (M)	359,995.1040	
Elevation (M)*	95.873	
Northing (SFT)	1,900,465.5163	
Easting (SFT)	1,181,083.9370	
Elevation (SFT)*	314.542	

Convergence Angle	0	14	35.4664597
Scale Factor	0.999927784		
Elevation Adjust. Factor	0.9999849547		
Combined Adjust. Factor	0.9999127398		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	gas meter		246	6.90	22.6
MK # 2	Power pole		030	17.10	56.1
MK # 3	Power pole w/guy		0	17.70	58.1

Area Reference Monuments (used for Processing) Ref Mon # 1 270005, 270014 Ref Mon # 2 270012, 270012A Ref Mon # 3	Comments 3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.
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Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 16 55.7514984
Longitude	92 26 4.1969400
Ellipsoid Height (M):	69.975
Geoid Height (M):	-25.996

Location Description
To reach the station from the junction of highways 46,270 and 167 in Sheridan go west on Hwy-46 for 2.85 miles to the station on the right. 10.50 meters Northwest of the center of Hwy-270 and 0.50 meters Southeast of a witness post. The station mark is a standard 64mm cap stamped "270017 2005" set on top of an iron rod 1.22 meters long and is below the grounds surface.

AZ Mark Station	270017A
Geodetic Azimuth	219 12 58
Grid Azimuth	219 27 34

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270017A	Date Monumented 10/6/2005	Monumented By AHTD	County GRANT	Route 46	Job Number: 020275
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	578,846.6419	
Easting (M)	359,652.3410	
Elevation (M)*	100.206	
Northing (SFT)	1,899,099.3576	
Easting (SFT)	1,179,959.3888	
Elevation (SFT)*	328.758	

Convergence Angle	0	14	42.9283822
Scale Factor	0.999927503		
Elevation Adjust. Factor	0.9999842747		
Combined Adjust. Factor	0.9999117789		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone riser	057	5.75	18.9
MK # 2	Power pole w/guy	332	25.40	83.3
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 270005, 270014	3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.
Ref Mon # 2 270012, 270012A	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270018	Date Monumented 8/30/2006	Monumented By AHTD	County GRANT	Route 270	Job Number: 020445,020717
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	582,111.0805	0.0030	
Easting (M)	379,038.8828	0.0030	
Elevation (M)*	97.039		

Northing (SFT)	1,909,809.4366		
Easting (SFT)	1,243,563.4013		
Elevation (SFT)*	318.369		

Convergence Angle	0	7	38.8533787
Scale Factor	0.999929862		
Elevation Adjust. Factor	0.9999847716		
Combined Adjust. Factor	0.9999146347		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	18	30.1846932
Longitude	92	13	39.8335800
Ellipsoid Height:	71.219		
Grid Northing (Meters)	582,111.0519		
Grid Easting (Meters)	379,038.8900		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	COMBINATION POLE		265	9.27	30.4
MK # 2	COMBINATION POLE		91	37.49	123.0
MK # 3					

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>ARGS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARPB</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARGS	Ref Mon # 2	ARLR	Ref Mon # 3	ARPB	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire levels ran by S5102 in Jan 08 in Job 020445. Position updated in July 2019 by S5112 during job 020717 CONSTRAINING ELEVATION ON NGS BM A-81.</td> </tr> </table>	Comments	3-Wire levels ran by S5102 in Jan 08 in Job 020445. Position updated in July 2019 by S5112 during job 020717 CONSTRAINING ELEVATION ON NGS BM A-81.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARGS										
Ref Mon # 2	ARLR										
Ref Mon # 3	ARPB										
Comments											
3-Wire levels ran by S5102 in Jan 08 in Job 020445. Position updated in July 2019 by S5112 during job 020717 CONSTRAINING ELEVATION ON NGS BM A-81.											

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID 12B
Latitude	34 18 30.1856220
Longitude	92 13 39.8338644
Ellipsoid Height (M):	70.984 0.0200
Geoid Height (M):	-26.012

Location Description
<p>TO REACH THE STATION MARK FROM THE JEFFERSON AND GRANT COUNTY LINE AND STATE HIGHWAY 270, EAST OF SHERIDAN, GO WEST ON HIGHWAY 270 FROM THE COUNTY LINE 1.0 MILES TO THE STATION MARK ON THE LEFT, SOUTH 56.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 8.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "270018 2006" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND SURFACE.</p>

AZ Mark Station	270018A
Geodetic Azimuth	93 24 39
Grid Azimuth	93 32 18

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270018A	Date Monumented 8/30/2006	Monumented By AHTD	County GRANT	Route 270	Job Number: 020445,020717
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	582,084.1440	0.0030	
Easting (M)	379,474.2069	0.0030	
Elevation (M)*	90.203		

Northing (SFT)	1,909,721.0624		
Easting (SFT)	1,244,991.6271		
Elevation (SFT)*	295.942		

Convergence Angle	0	7	29.3225788
Scale Factor	0.999929843		
Elevation Adjust. Factor	0.9999858444		
Combined Adjust. Factor	0.9999156884		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	34	18	29.3421240
Longitude	92	13	22.8044244
Ellipsoid Height:	64.396		
Grid Northing (Meters)	582,084.1329		
Grid Easting (Meters)	379,474.2260		

Location Description

 TO REACH THE STATION MARK FROM THE JEFFERSON AND GRANT COUNTY LINE AND STATE HIGHWAY 270, EAST OF SHERIDAN, GO WEST ON HIGHWAY 270 FROM THE COUNTY LINE 0.70 MILES TO THE STATION MARK ON THE LEFT, SOUTH 39.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 26.1 FEET OF THE CENTERLINE OF DAVIS DRIVE, NORTH 4.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "270018A 2006" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND SURFACE.

Location Reference Marks

Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WATER VALVE	220	7.62	25.0	270018
MK # 2	COMBINATION POLE WITH LIGHT	110	15.09	49.5	273 24 49
MK # 3					273 32 18

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM, ARLR Ref Mon # 2 CSAL Ref Mon # 3 K 124	Comments 3-Wire levels ran by S5102 in Jan 08 in Job 020445. Position updated in July 2019 by S5112 during job 020717 CONSTRAINING ELEVATION ON NGS BM A-81.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270019	Date Monumented 7/22/2008	Monumented By AHTD	County GRANT	Route 167	Job Number: 020318,020344
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	587,588.2049	
Easting (M)	364,353.9950	
Elevation (M)*		
Northing (SFT)	1,927,778.9689	
Easting (SFT)	1,195,384.7319	
Elevation (SFT)*		

Convergence Angle	0	13	0.7671561
Scale Factor	0.999934303		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Gate post	204	34.90	114.5	
MK # 2	Northwest corner of a powerline tower	157	33.62	110.3	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM ARLR DQUA Ref Mon # 2 Ref Mon # 3 	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description	
To reach the station from the junction of highways 167 and 35N in Sheridan go north on hwy-167 for 3.20 miles to the station on the right. 123 ft. north of a paved drive, 56.80 feet east of the center of hwy-167 and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "270019 2008" set on top of a 4 foot by 5/8 inch rebar and is 0.20 feet below the surface. This is a replacement for GPS station 270015A which was destroyed.	

AZ Mark Station	270015
Geodetic Azimuth	13 42 03
Grid Azimuth	13 55 03

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270020	Date Monumented 7/22/2008	Monumented By AHTD	County GRANT	Route 167	Job Number: 020318
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	592,094.9509	
Easting (M)	365,615.3600	
Elevation (M)*		
Northing (SFT)	1,942,564.8514	
Easting (SFT)	1,199,523.0603	
Elevation (SFT)*		

Convergence Angle	0	12	33.4998809
Scale Factor	0.999938545		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach the station from the junction of highways 167 and 35N in Sheridan go north on hwy-167 for 6.0 miles to the station on the right. 50.0 feet east of the east edge of the asphalt and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "270020 2008" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	None				270020A	
MK # 2					194 06 49	
MK # 3					194 19 22	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM ARLR DQUA	
Ref Mon # 2 620016 270015	
Ref Mon # 3 	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270020A	Date Monumented 7/22/2008	Monumented By AHTD	County GRANT	Route 167	Job Number: 020318
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	591,424.0998	
Easting (M)	365,444.0780	
Elevation (M)*		
Northing (SFT)	1,940,363.9008	
Easting (SFT)	1,198,961.1126	
Elevation (SFT)*		

Convergence Angle	0	12	37.1993293
Scale Factor	0.999937882		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	295	3.84	12.6
MK # 2	North gate post	240	3.50	11.5
MK # 3	Gas meter	273	10.58	34.7

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM ARLR DQUA Ref Mon # 2 620016 270015 Ref Mon # 3	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 23 31.1417268
Longitude	92 22 32.8889208
Ellipsoid Height (M):	61.249
Geoid Height (M):	-25.968

Location Description
<p>To reach the station from the junction of highways 167 and 35N in Sheridan go north on hwy-167 for 5.50 miles to the station on the left. 40.0 feet west of the west edge of the asphalt, 14.0 north of the center of a paved drive and 7.40 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "270020A 2008" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface.</p>

AZ Mark Station	270020
Geodetic Azimuth	14 06 45
Grid Azimuth	14 19 22

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270021	Date Monumented 7/22/2008	Monumented By AHTD	County GRANT	Route 167	Job Number: 020318
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	596,011.5049	
Easting (M)	367,170.9590	
Elevation (M)*		
Northing (SFT)	1,955,414.4123	
Easting (SFT)	1,204,626.7213	
Elevation (SFT)*		

Convergence Angle	0	11	59.7104705
Scale Factor	0.999942643		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	North gate post	140	1.04	3.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM ARLR DQUA	
Ref Mon # 2 620016 270015	
Ref Mon # 3	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 26 0.2250996
Longitude	92 21 25.9075332
Ellipsoid Height (M):	54.863
Geoid Height (M):	-25.999

Location Description
<p>To reach the station from the junction of highways 167 and 35N in Sheridan go north on hwy-167 for 8.60 miles to the station on the right. 43.4 feet east of the east edge of the asphalt, 11.0 feet north of the center of a paved drive and 3.40 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "270021 2008" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface.</p>

AZ Mark Station	270021A
Geodetic Azimuth	13 56 45
Grid Azimuth	14 08 44

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270021A	Date Monumented 7/22/2008	Monumented By AHTD	County GRANT	Route 167	Job Number: 020318
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	596,601.4729	
Easting (M)	367,319.6480	
Elevation (M)*		
Northing (SFT)	1,957,349.9990	
Easting (SFT)	1,205,114.5451	
Elevation (SFT)*		

Convergence Angle	0	11	56.4957191
Scale Factor	0.999943293		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>To reach the station from the junction of highways 167 and 35N in Sheridan go north on hwy-167 for 8.90 miles to the station on the left. 54.5 feet west of the of the west edge of the asphalt and 4.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "270021A 2008" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface.</p>				

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	Wooden fence post	5	9.60	31.5		270021
MK # 2						193 56 48
MK # 3						194 08 44

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270022	Date Monumented 7/22/2008	Monumented By AHTD	County GRANT	Route n/a	Job Number: 020318,001847
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	600,526.6339	
Easting (M)	368,496.1090	
Elevation (M)*		
Northing (SFT)	1,970,227.7981	
Easting (SFT)	1,208,974.3176	
Elevation (SFT)*		

Convergence Angle	0	11	30.9910544
Scale Factor	0.999947837		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	None			
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM ARLR DQUA Ref Mon # 2 620016 270015 Ref Mon # 3	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 28 26.9075604
Longitude	92 20 34.5945192
Ellipsoid Height (M):	78.394
Geoid Height (M):	-26.065

Location Description
<p>To reach the station from the junction of highways 167 and 35 north in Sheridan go north on hwy-167 for 11.3 miles to county road 658 on the right. Turn right and go 0.30 miles to the station on the right at the top of a hill. 23.0 feet south of the center of the gravel road and 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "270022 2008" set on top of a 4 foot long by 5/8 inch rebar and is 0.20 feet below the surface.</p>

AZ Mark Station	270022A
Geodetic Azimuth	272 06 16
Grid Azimuth	272 17 47

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270022A	Date Monumented 7/22/2008	Monumented By AHTD	County GRANT	Route n/a	Job Number: 020318,001847
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	600,541.4539	
Easting (M)	368,126.5150	
Elevation (M)*		
Northing (SFT)	1,970,276.4200	
Easting (SFT)	1,207,761.7413	
Elevation (SFT)*		

Convergence Angle	0	11	39.0985889
Scale Factor	0.999947854		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach the station from the junction of highways 167 and 35 north in Sheridan go north on hwy-167 for 11.3 miles to county road 658 on the right. Turn right and go 0.10 miles to the station on the left. 20.0 feet north of the center of the gravel road and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "270022A 2008" set on top of a 4 foot long by 5/8 inch rebar and is 0.20 feet below the surface.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM ARLR DQUA</p> <p>Ref Mon # 2 620016 270015</p> <p>Ref Mon # 3 </p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270023	Date Monumented 6/10/2014	Monumented By AHTD	County GRANT	Route 229	Job Number: 020562
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	583,897.4808	0.0020			
Easting (M)	341,098.6110	0.0020			
Elevation (M)*	70.692				
Northing (SFT)	1,915,670.3183				
Easting (SFT)	1,119,087.6929				
Elevation (SFT)*	231.929				

Convergence Angle	0	21	29.6220421		
Scale Factor	0.999931114				
Elevation Adjust. Factor	0.9999889062				
Combined Adjust. Factor	0.9999200210				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH FROM THE INTERSECTION OF HWY. 229 AND HWY. 270 IN POYEN. GO SOUTH ON HWY. 229 FOR 0.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS 1.0 FT. EAST OF A WITNESS POST, 20 FT. NORTH OF THE CENTER OF W. 4TH ST., AND 75 FT. EAST OF CENTER GRAVEL DRIVEWAY TO GRAVEL PARKING LOT. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "270023 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	FIRE HYDRANT	93		18.40	60.4
MK # 2	TELEPHONE POLE	122		24.10	79.1
MK # 3	COMBINATION POLE	203		14.00	45.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<p>ELEV EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM A 81 BY CREW S5102 IN JUNE 2014.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270024	Date Monumented 7/8/2019	Monumented By ARDOT	County GRANT	Route 270	Job Number: 020717
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	583,131.5652	0.0020			
Easting (M)	350,938.3081	0.0020			
Elevation (M)*					
Northing (SFT)	1,913,157.4768				
Easting (SFT)	1,151,370.0992				
Elevation (SFT)*					

Convergence Angle	0	17	54.1028236
Scale Factor	0.999930560		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	IRON PIPE FIELD FENCE	153	2.50	8.2
MK # 2	WOOD UTILITY MARKER POST	260	28.00	91.9
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARGS Ref Mon # 2 ARLR Ref Mon # 3 ARPB	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Static elevation constraining ngs bm A-81</td> </tr> </table>	Comments	Static elevation constraining ngs bm A-81
Comments			
Static elevation constraining ngs bm A-81			

Location Description
Starting at the Intersection of Hwy 270 and Hwy 190 south, East of Prattsville AR., Go East along Hwy 270

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	34 18 59.9169384
Longitude	92 31 59.1007620
Ellipsoid Height (M):	67.627 0.0110
Geoid Height (M):	-26.177

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270024A	Date Monumented 7/8/2019	Monumented By ARDOT	County GRANT	Route 270	Job Number: 020717
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	582,789.1479	0.0020	
Easting (M)	350,708.3672	0.0020	
Elevation (M)*			
Northing (SFT)	1,912,034.0627		
Easting (SFT)	1,150,615.7014		
Elevation (SFT)*			

Convergence Angle	0	17	59.0975861
Scale Factor	0.999930296		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	IRON PIPE FIELD FENCE	290	1.80	5.9
MK # 2	NE END OF 24" CMP CUS	47	33.30	109.3
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS	Static elevation constraining ngs bm A-81
Ref Mon # 2 ARLR	
Ref Mon # 3 ARPB	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270025	Date Monumented 7/8/2019	Monumented By ARDOT	County GRANT	Route 270	Job Number: 020717
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	583,129.0999	0.0020	
Easting (M)	355,260.2309	0.0020	
Elevation (M)*			

Northing (SFT)	1,913,149.3886		
Easting (SFT)	1,165,549.6075		
Elevation (SFT)*			

Convergence Angle	0	16	19.4846253
Scale Factor	0.999930575		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL FORESTRY RD 9420	90	28.65	94.0
MK # 2	EAST END OF CMP CUS	84	22.00	72.2
MK # 3	CL HWY 270	195	8.41	27.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS Ref Mon # 2 ARLR Ref Mon # 3 ARPB	Static elevation constraining ngs bm A-81

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID 12B
Latitude	34 19 0.5351988
Longitude	92 29 10.0463172
Ellipsoid Height (M):	62.349 0.0130
Geoid Height (M):	-26.127

Location Description
From the intersection of Hwy 270 and Hwy 190 South, East of Prattsville, AR., go East along

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270025A	Date Monumented 7/8/2019	Monumented By ARDOT	County GRANT	Route 270	Job Number: 020717
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	583,111.5643	0.0020	
Easting (M)	355,710.3706	0.0020	
Elevation (M)*			
Northing (SFT)	1,913,091.8572		
Easting (SFT)	1,167,026.4409		
Elevation (SFT)*			

Convergence Angle	0	16	9.6280888
Scale Factor	0.999930563		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL HWY 270	196	7.90	25.9
MK # 2	ARDOT GPS WITNESS POST	15	4.90	16.1
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARGS Ref Mon # 2 ARLR Ref Mon # 3 ARPB	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Static elevation constraining ngs bm A-81</td> </tr> </table>	Comments	Static elevation constraining ngs bm A-81
Comments			
Static elevation constraining ngs bm A-81			

Location Description
From the intersection of Hwy 270 and Hwy 190 South, East of Prattsville, AR., go East along

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID 12B
Latitude	34 19 0.0351012
Longitude	92 28 52.4356320
Ellipsoid Height (M):	53.374 0.0130
Geoid Height (M):	-261,229.000

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270026	Date Monumented 7/8/2019	Monumented By ARDOT	County GRANT	Route 270	Job Number: 020717
--------------------------	------------------------------------	-------------------------------	------------------------	---------------------	------------------------------

Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	582,769.9673	0.0020	
Easting (M)	375,574.9647	0.0020	
Elevation (M)*			

Northing (SFT)	1,911,971.1344	
Easting (SFT)	1,232,198.8634	
Elevation (SFT)*		

Convergence Angle	0	8	54.7180231
Scale Factor	0.999930355		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TB 96-5	280	6.75	22.1
MK # 2	5 BARB FE	198	1.65	5.4
MK # 3	S END OF SIGN (CLARK'S CHRISTMAS TREE	127	5.50	18.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="ARGS"/>	Static elevation constraining ngs bm A-81
Ref Mon # 2 <input type="text" value="ARLR"/>	
Ref Mon # 3 <input type="text" value="ARPB"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270026A	Date Monumented 7/8/2019	Monumented By ARDOT	County GRANT	Route 270	Job Number: 020717
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	582,632.7690	0.0020			
Easting (M)	376,079.8282	0.0020			
Elevation (M)*					
Northing (SFT)	1,911,521.0096				
Easting (SFT)	1,233,855.2364				
Elevation (SFT)*					

Convergence Angle	0	8	43.6578660
Scale Factor	0.999930252		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NE CNR OF TAN, 1 S-F HOME	49	43.80	143.7
MK # 2	CP	104	30.00	98.4
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARGS Ref Mon # 2 ARLR Ref Mon # 3 ARPB	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Static elevation constraining ngs bm A-81</td> </tr> </table>	Comments	Static elevation constraining ngs bm A-81
Comments			
Static elevation constraining ngs bm A-81			

Location Description
From the Grant/Jefferson county line on Hwy 270 East of White Hall, travel West along Hwy 270 for

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID 12B
Latitude	34 18 46.8886320
Longitude	92 15 35.6201172
Ellipsoid Height (M):	71.491 0.0150
Geoid Height (M):	-26.015

AZ Mark Station	270026
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270027	Date Monumented 7/6/2020	Monumented By ARDOT	County GRANT	Route 270	Job Number: 020717
--------------------------	------------------------------------	-------------------------------	------------------------	---------------------	------------------------------

Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	583,461.8997	0.0040			
Easting (M)	370,245.5639	0.0040			
Elevation (M)*					
Northing (SFT)	1,914,241.2493				
Easting (SFT)	1,214,713.9876				
Elevation (SFT)*					

Convergence Angle	0	10	51.4375233
Scale Factor	0.999930880		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CP	217	20.88	68.5
MK # 2	WATER MARKER	178	11.00	36.1
MK # 3	GAS MARKER	191	11.60	38.1

Area Reference Monuments (used for Processing) Ref Mon # 1 ARGS Ref Mon # 2 ARLR Ref Mon # 3 ARPB	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 34 19 13.2591648

Longitude 92 19 23.9241792

Ellipsoid Height (M): 59.392 0.0240

Geoid Height (M): -26.031 0.0240

Location Description

TO REACH THE STATION MARK FROM THE JCT OF US-270 & SR-46 JUST EAST OF SHERIDAN, GO EAST ON US-270 3.6 MILES TO STATION ON RIGHT. 22.2' SOUTH OF C/L US-270. 38.5' EAST OF C/L CR-270041. THE MARK IS A STANDARD 2½" CAP STAMPED "270027 2020" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270027A	Date Monumented 7/6/2020	Monumented By ARDOT	County GRANT	Route 270	Job Number: 020717
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	583,491.6160	0.0040			
Easting (M)	370,760.8952	0.0040			
Elevation (M)*					
Northing (SFT)	1,914,338.7435				
Easting (SFT)	1,216,404.7037				
Elevation (SFT)*					

Convergence Angle	0	10	40.1570564		
Scale Factor	0.999930904				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JCT OF US-270 & SR-46 JUST EAST OF SHERIDAN, GO EAST ON US-270 3.9 MILES TO STATION ON LEFT. 29.7' NORTH OF C/L US-270. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "270027A 2020" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	CP		201	28.66	94.0	AZ Mark Station 270027
MK # 2						Geodetic Azimuth
MK # 3						Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="ARGS"/> Ref Mon # 2 <input type="text" value="ARLR"/> Ref Mon # 3 <input type="text" value="ARPB"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280001	Date Monumented 5/1/1990	Monumented By AHTD	County GREENE	Route 49	Job Number: R00094
--------------------------	------------------------------------	------------------------------	-------------------------	--------------------	------------------------------

Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	182,554.7480	
Easting (M)	530,264.8630	
Elevation (M)*		
Northing (SFT)	598,931.7024	
Easting (SFT)	1,739,710.6380	
Elevation (SFT)*		

Convergence Angle	0	50	25.6320155
Scale Factor	0.999958563		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
THE STATION IS 0.65 MILES FROM AHTD GPS STATION 90160003, 47 FEET WEST OF THE CENTERLINE OF HWY. 49, 44 FEET EAST OF A SMALL LOG CABIN, 200 FEET SOUTH OF THE SOUTH ENTRANCE TO A LIQUOR STORE AND 1.70 FEET EAST OF A WITNESS POST.			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NBC IN 6" PINE	14	16.69	54.8	Geodetic Azimuth	90160003
MK # 2	NBC IN 4" PINE	295	11.33	37.2	Grid Azimuth	219 17 06
MK # 3	NBC IN POWER POLE	225	14.97	49.1		218 26 50

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>FIRST</td> </tr> <tr> <td>Ref Mon # 2</td> <td>BOWMAN</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NETTLE</td> </tr> </table>	Ref Mon # 1	FIRST	Ref Mon # 2	BOWMAN	Ref Mon # 3	NETTLE	Comments Old point number 90280001
Ref Mon # 1	FIRST						
Ref Mon # 2	BOWMAN						
Ref Mon # 3	NETTLE						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280002	Date Monumented 5/1/1990	Monumented By AHTD	County GREENE	Route 49	Job Number: R00094,100445
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	192,633.5489	
Easting (M)	534,728.2370	
Elevation (M)*		
Northing (SFT)	631,998.5683	
Easting (SFT)	1,754,354.2242	
Elevation (SFT)*		

Convergence Angle	0	52	12.8414276
Scale Factor	0.999970391		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	DRILL POINT IN TOP OF R/W MARKER	5	11.58	38.0
MK # 2	DRILL POINT IN LIGHT POLE BASE	195	21.76	71.4
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 FIRST	Old point number 90280002
Ref Mon # 2 BOWMAN	
Ref Mon # 3 NETTLE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280003	Date Monumented 12/6/1999	Monumented By AHTD	County GREENE	Route 139	Job Number: 100566
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	191,901.6019	
Easting (M)	548,142.3320	
Elevation (M)*	76.103	
Northing (SFT)	629,597.1722	
Easting (SFT)	1,798,363.6342	
Elevation (SFT)*	249.680	

Convergence Angle	0	57	24.4203944
Scale Factor	0.999969168		
Elevation Adjust. Factor	0.9999880571		
Combined Adjust. Factor	0.9999572255		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 139 NORTH, LOCATED ABOUT 11.27 KM (7.00 MI) EAST OF PARAGOULD, GO NORTH ON STATE HIGHWAY 139 FOR 0.19 KM (0.12 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.95 METERS WEST OF THE CENTER OF STATE HIGHWAY 139, 3.65 METERS SOUTHWEST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280003 1999" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 606.882 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 AHTD PAR 1</p> <p>Ref Mon # 2 KENNPORT</p> <p>Ref Mon # 3 MANIPORT</p>	<p style="text-align: center;">Comments</p> <p>ELEV BY 3-WIRE FROM NGS PARAGOULD</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280003A	Date Monumented 12/6/1999	Monumented By AHTD	County GREENE	Route 139	Job Number: 100566
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	192,475.5150	
Easting (M)	548,339.5820	
Elevation (M)*	76.147	
Northing (SFT)	631,480.0855	
Easting (SFT)	1,799,010.7786	
Elevation (SFT)*	249.824	

Convergence Angle	0	57	29.2288703
Scale Factor	0.999969903		
Elevation Adjust. Factor	0.9999880503		
Combined Adjust. Factor	0.9999579536		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LEVEE MILE MARKED 38	389	0.70	2.3
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD PAR 1 Ref Mon # 2 KENNPOR T Ref Mon # 3 MANIPOR T	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV BY 3-WIRE FROM NGS PARAGOUL D</td> </tr> </table>	Comments	ELEV BY 3-WIRE FROM NGS PARAGOUL D
Comments			
ELEV BY 3-WIRE FROM NGS PARAGOUL D			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 139 NORTH, LOCATED ABOUT 11.27 KM (7.00 MI) EAST OF PARAGOUL D, GO NORTH ON STATE HIGHWAY 139 FOR 0.76 KM (0.47 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.30 METERS WEST OF THE CENTER OF STATE HIGHWAY 139 AND 0.57 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280003A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 606.882 METERS.

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 3 25.3665036
Longitude	90 21 12.4625556
Ellipsoid Height (M):	47.865
Geoid Height (M):	-28.187

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280004	Date Monumented 3/13/2000	Monumented By AHTD	County GREENE	Route 412	Job Number: 100496
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	193,312.0539	
Easting (M)	519,174.2540	
Elevation (M)*	85.277	
Northing (SFT)	634,224.6302	
Easting (SFT)	1,703,324.1983	
Elevation (SFT)*	279.780	

Convergence Angle	0	46	11.4223390
Scale Factor	0.999971578		
Elevation Adjust. Factor	0.9999866174		
Combined Adjust. Factor	0.9999581958		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CORNER FENCE POST	187	2.10	6.9	AZ Mark Station 280004A
MK # 2	GATE POST	101	11.62	38.1	Geodetic Azimuth 80 44 55.303310
MK # 3	EAST END OF CMP	273	5.85	19.2	Grid Azimuth 79 58 43.931174

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 P 315	Elevation based on 3-wire from NGS Pt. K 251
Ref Mon # 2 POCAPORT	
Ref Mon # 3 AHTD PAR 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280004A	Date Monumented 3/13/2000	Monumented By AHTD	County GREENE	Route 412	Job Number: 100496
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 193,376.6459		Latitude 36 4 8.7094380
Easting (M) 519,539.7860		Longitude 90 40 22.6392132
Elevation (M)* 86.830		Ellipsoid Height (M): 58.688
		Geoid Height (M): -28.027

Northing (SFT) 634,436.5458		
Easting (SFT) 1,704,523.4479		
Elevation (SFT)* 284.875		

Convergence Angle 0 46 19.9420762		
Scale Factor 0.999971657		
Elevation Adjust. Factor 0.9999863737		
Combined Adjust. Factor 0.9999580311		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
THE STATION IS LOCATED ABOUT 16.09 KM (10.00 MI) WEST OF PARAGOULD AT THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 141. THE STATION IS 44.10 METERS WEST OF THE CENTER OF STATE HIGHWAY 141, 11.75 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 412 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280004A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 371.211 METERS.				

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	81	22.90	75.1	AZ Mark Station 280004
MK # 2	NONE				Geodetic Azimuth 260 45 03.92346
MK # 3	NONE				Grid Azimuth 259 58 43.93117

Area Reference Monuments (used for Processing) Ref Mon # 1 P 315 Ref Mon # 2 POCAPORT Ref Mon # 3 AHTD PAR 1	Comments Elevation based on 3-wire from NGS Pt. K 251
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280005	Date Monumented 3/13/2000	Monumented By AHTD	County GREENE	Route 412	Job Number: 100496
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	193,941.5739	
Easting (M)	525,112.7580	
Elevation (M)*	132.015	
Northing (SFT)	636,289.9804	
Easting (SFT)	1,722,807.4402	
Elevation (SFT)*	433.119	

Convergence Angle	0	48	29.7121146
Scale Factor	0.999972309		
Elevation Adjust. Factor	0.9999792830		
Combined Adjust. Factor	0.9999515925		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	EAST END OF CMP	275	22.80	74.8	AZ Mark Station 280005A
MK # 2	TELEPHONE JUNCTION BOX	287	23.00	75.5	Geodetic Azimuth 274 40 15.35821
MK # 3	GUY POLE	322	20.50	67.3	Grid Azimuth 273 51 45.55189

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 P 315	Elevation based on 3-wire from NGS Pt. K 251
Ref Mon # 2 POCAPORT	
Ref Mon # 3 AHTD PAR 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280005A	Date Monumented 3/13/2000	Monumented By AHTD	County GREENE	Route 412	Job Number: 100496
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 193,987.5859		Latitude 36 4 26.3467632
Easting (M) 524,431.2860		Longitude 90 37 6.8349432
Elevation (M)* 134.346		Ellipsoid Height (M): 106.071
Northing (SFT) 636,440.9381		Geoid Height (M): -28.069
Easting (SFT) 1,720,571.6442		
Elevation (SFT)* 440.767		

Convergence Angle 0 48 13.8804101	Location Description
Scale Factor 0.999972383	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 141, LOCATED ABOUT 16.09 KM (10.00 MI) WEST OF PARAGOULD, GO EAST ON U.S. HIGHWAY 412 FOR 4.91 KM (3.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.70 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY, 9.30 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 412 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280005A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 683.060 METERS.</p>
Elevation Adjust. Factor 0.9999789172	
Combined Adjust. Factor 0.9999513008	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	301	16.40	53.8	AZ Mark Station 280005
MK # 2	POWER POLE	266	32.15	105.5	Geodetic Azimuth 94 39 59.338058
MK # 3	NONE				Grid Azimuth 93 51 45.551888

Area Reference Monuments (used for Processing) Ref Mon # 1 P 315 Ref Mon # 2 POCAPORT Ref Mon # 3 AHTD PAR 1	Comments Elevation based on 3-wire from NGS Pt. K 251
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280006	Date Monumented 3/13/2000	Monumented By AHTD	County GREENE	Route 412	Job Number: 100496,100445,10786_9
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	193,095.4239	
Easting (M)	529,924.1990	
Elevation (M)*	115.137	
Northing (SFT)	633,513.9032	
Easting (SFT)	1,738,592.9762	
Elevation (SFT)*	377.744	

Convergence Angle	0	50	21.3065042
Scale Factor	0.999971091		
Elevation Adjust. Factor	0.9999819316		
Combined Adjust. Factor	0.9999530232		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAN HOLE COVER	318	29.95	98.3
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 P 315	Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark R 324.
Ref Mon # 2 POCAPORT	
Ref Mon # 3 AHTD PAR 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280006A	Date Monumented 3/13/2000	Monumented By AHTD	County GREENE	Route 412	Job Number: 100496,100445,10786_9
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	192,785.7009
Easting (M)	530,399.4450
Elevation (M)*	111.194
Northing (SFT)	632,497.7537
Easting (SFT)	1,740,152.1791
Elevation (SFT)*	364.809

Convergence Angle	0	50	32.2505918
Scale Factor	0.999970675		
Elevation Adjust. Factor	0.9999825504		
Combined Adjust. Factor	0.9999532259		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	296	10.90	35.8
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 P 315	Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark R 324.
Ref Mon # 2 POCAPORT	
Ref Mon # 3 AHTD PAR 1	

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 3 44.5740984
Longitude	90 33 9.0442764
Ellipsoid Height (M):	83.033
Geoid Height (M):	-28.091

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND U.S. HIGHWAY 49, LOCATED IN PARAGOULD, GO WEST ON U.S. HIGHWAY 412 FOR 4.67 KM (2.90 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.50 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 412, 4.61 METERS NORTHEAST OF THE NORTHEAST EDGE OF CONCRETE SIDEWALK, 4.10 METERS SOUTHWEST OF THE SOUTHWEST EDGE OF A PAVED PARKING LOT AND 0.84 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280006A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 567.287 METERS.</p>

AZ Mark Station	280006
Geodetic Azimuth	303 56 06.44535
Grid Azimuth	303 05 34.13100

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280007	Date Monumented 12/17/2002	Monumented By AHTD	County GREENE	Route N/A	Job Number: 100433
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	182,384.3659
Easting (M)	515,440.0270
Elevation (M)*	114.114
Northing (SFT)	598,372.7071
Easting (SFT)	1,691,072.8219
Elevation (SFT)*	374.389

Convergence Angle	0 44 41.2887989
Scale Factor	0.999958599
Elevation Adjust. Factor	0.9999820921
Combined Adjust. Factor	0.9999406919

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
<p>TO REACH THE STATION FROM THE JUNCTION OF THE GREEN / CRAIGHEAD COUNTY LINE AND STATE HIGHWAY 141, GO NORTH ON STATE HIGHWAY 141 FOR 0.40 MILES AND TURN LEFT ON AN ASPHALT ROAD THAT IS THE ENTRANCE TO LAKE FRIERSON STATE PARK. GO 0.07 MILES TO THE OFFICE AND TURN LEFT ON AN ASPHALT ROAD FOR 0.10 MILES TO A GRAVEL ROAD ON THE LEFT. GO LEFT ON THE GRAVEL FOR 0.20 MILES TO A CHAINLINK GATE. GO WEST ON LAKE FRIERSON LEVEE 49.4 METERS TO THE STATION ON THE RIGHT. THE STATION IS 3.20 METERS NORTH OF THE CENTER OF THE LEVEE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "280007 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 AHTD HAR1, AHTD PAR1</p> <p>Ref Mon # 2 480016 and BUTLER</p> <p>Ref Mon # 3 MEM2 CORS</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BY 3 WIRE FROM 160019A</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280007A	Date Monumented 12/17/2002	Monumented By AHTD	County GREENE	Route N/A	Job Number: 100433
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	182,376.5429	
Easting (M)	514,862.8170	
Elevation (M)*	114.341	
Northing (SFT)	598,347.0412	
Easting (SFT)	1,689,179.0921	
Elevation (SFT)*	375.132	

Convergence Angle	0	44	27.8812753
Scale Factor	0.999958599		
Elevation Adjust. Factor	0.9999820566		
Combined Adjust. Factor	0.9999406563		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF THE GREEN / CRAIGHEAD COUNTY LINE AND STATE HIGHWAY 141, GO NORTH ON STATE HIGHWAY 141 FOR 0.40 MILES AND TURN LEFT ON AN ASPHALT ROAD THAT IS THE ENTRANCE TO LAKE FRIERSON STATE PARK. GO 0.07 MILES TO THE OFFICE AND TURN LEFT ON AN ASPHALT ROAD FOR 0.10 MILES TO A GRAVEL ROAD ON THE LEFT. GO LEFT ON THE GRAVEL FOR 0.20 MILES TO A CHAINLINK GATE. GO WEST ON LAKE FRIERSON LEVEE 49.4 METERS TO STATION 280007 ON THE RIGHT, CONTINUE ON WEST 0.30 MILES ON TOP OF THE LEVEE TO THE STATION ON THE RIGHT. THE STATION IS 3.05 METERS NORTH OF THE CENTER OF THE LEVEE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "280007A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 AHTD HAR1, AHTD PAR1</p> <p>Ref Mon # 2 480016 and BUTLER</p> <p>Ref Mon # 3 MEM2 CORS</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BY 3 WIRE FROM 160019A</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280008	Date Monumented 12/19/2002	Monumented By AHTD	County GREENE	Route N/A	Job Number: 100568,101000
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	184,535.3209	
Easting (M)	536,447.3090	
Elevation (M)*	76.486	
Northing (SFT)	605,429.6320	
Easting (SFT)	1,759,994.2129	
Elevation (SFT)*	250.938	

Convergence Angle	0	52	49.9150921
Scale Factor	0.999960603		
Elevation Adjust. Factor	0.9999879970		
Combined Adjust. Factor	0.9999486004		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE PEDESTAL	109	9.10	29.9
MK # 2	GUY POLE	144	21.00	68.9
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD PAR 1 Ref Mon # 2 480016 and BUTLER Ref Mon # 3 MEM2 CORS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV BY 3-WIRE BY CONS. LAND. FROM NGS PT K 187</td> </tr> </table>	Comments	ELEV BY 3-WIRE BY CONS. LAND. FROM NGS PT K 187
Comments			
ELEV BY 3-WIRE BY CONS. LAND. FROM NGS PT K 187			

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 59 13.9674120
Longitude	90 29 12.4663308
Ellipsoid Height (M):	48.391
Geoid Height (M):	-28.059

Location Description
TO REACH THE STATION FROM U.S. STATE HIGHWAY 49 AND HIGHWAY 69 SOUTH OF PARAGOULD, GO NORTH ON HIGHWAY 69 2.9 MILES TO COUNTY ROAD 914 (GRAVEL) AND TURN RIGHT (EAST) AND GO 0.1 MILES TO THE STATION ON THE LEFT. 5.60 METERS NORTH OF THE CENTER OF THE ROAD AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280008 2002" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280008A	Date Monumented 12/20/2002	Monumented By AHTD	County GREENE	Route 69	Job Number: 100568,101000
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas North</td> <td>301</td> </tr> <tr> <td>Horizontal Datum</td> <td>NAD 83 (1997)</td> </tr> <tr> <td>Northing (M)</td> <td>184,533.3510</td> </tr> <tr> <td>Easting (M)</td> <td>535,787.7780</td> </tr> <tr> <td>Elevation (M)*</td> <td>79.220</td> </tr> <tr> <td>Northing (SFT)</td> <td>605,423.1691</td> </tr> <tr> <td>Easting (SFT)</td> <td>1,757,830.4017</td> </tr> <tr> <td>Elevation (SFT)*</td> <td>259.909</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Convergence Angle</td> <td style="width: 10%;">0</td> <td style="width: 10%;">52</td> <td style="width: 30%;">34.5947017</td> </tr> <tr> <td>Scale Factor</td> <td colspan="3">0.999960612</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td colspan="3">0.9999875679</td> </tr> <tr> <td>Combined Adjust. Factor</td> <td colspan="3">0.9999481804</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 10px;"> SUPERCEDED CONTROL </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas North	301	Horizontal Datum	NAD 83 (1997)	Northing (M)	184,533.3510	Easting (M)	535,787.7780	Elevation (M)*	79.220	Northing (SFT)	605,423.1691	Easting (SFT)	1,757,830.4017	Elevation (SFT)*	259.909	Convergence Angle	0	52	34.5947017	Scale Factor	0.999960612			Elevation Adjust. Factor	0.9999875679			Combined Adjust. Factor	0.9999481804			Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Vertical Determined By:</td> <td style="width: 50%;">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td>NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td>35 59 14.2315584</td> </tr> <tr> <td>Longitude</td> <td>90 29 38.7945888</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>51.146</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.052</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">Location Description</p> <p>TO REACH FROM U.S. STATE HIGHWAY 49 AND HIGHWAY 69 SOUTH OF PARAGOULD, GO NORTH ON HIGHWAY 69 2.5 MILES TO THE STATION ON THE LEFT. 8.15 METERS SOUTH OF THE CENTER OF THE HIGHWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280008A 2002" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p> </div>	Vertical Determined By:	LEVEL - Unkown Quality	Elevation Datum:	NAVD 88	Geoid Datum:		Latitude	35 59 14.2315584	Longitude	90 29 38.7945888	Ellipsoid Height (M):	51.146	Geoid Height (M):	-28.052
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Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF A 24" CMP	80	8.45	27.7
MK # 2				
MK # 3				

AZ Mark Station	280008
Geodetic Azimuth	90 42 18
Grid Azimuth	89 49 44

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>AHTD PAR 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>480016 and BUTLER</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MEM2 CORS</td> </tr> </table>	Ref Mon # 1	AHTD PAR 1	Ref Mon # 2	480016 and BUTLER	Ref Mon # 3	MEM2 CORS	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Comments</p> <p>ELEV BY 3-WIRE BY CONS. LAND. FROM NGS PT K 187</p> </div>
Ref Mon # 1	AHTD PAR 1						
Ref Mon # 2	480016 and BUTLER						
Ref Mon # 3	MEM2 CORS						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280009	Date Monumented 12/19/2002	Monumented By AHTD	County GREENE	Route 412	Job Number: 100564,100445
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas North</td> <td>301</td> </tr> <tr> <td>Horizontal Datum</td> <td>NAD 83 (1997)</td> </tr> <tr> <td>Northing (M)</td> <td>192,475.9030</td> </tr> <tr> <td>Easting (M)</td> <td>533,796.7280</td> </tr> <tr> <td>Elevation (M)*</td> <td>89.142</td> </tr> <tr> <td>Northing (SFT)</td> <td>631,481.3584</td> </tr> <tr> <td>Easting (SFT)</td> <td>1,751,298.0984</td> </tr> <tr> <td>Elevation (SFT)*</td> <td>292.459</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Convergence Angle</td> <td style="width: 10%;">0</td> <td style="width: 10%;">51</td> <td style="width: 30%;">51.1290176</td> </tr> <tr> <td>Scale Factor</td> <td colspan="3">0.999970204</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td colspan="3">0.9999860110</td> </tr> <tr> <td>Combined Adjust. Factor</td> <td colspan="3">0.9999562154</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;"> SUPERCEDED CONTROL </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas North	301	Horizontal Datum	NAD 83 (1997)	Northing (M)	192,475.9030	Easting (M)	533,796.7280	Elevation (M)*	89.142	Northing (SFT)	631,481.3584	Easting (SFT)	1,751,298.0984	Elevation (SFT)*	292.459	Convergence Angle	0	51	51.1290176	Scale Factor	0.999970204			Elevation Adjust. Factor	0.9999860110			Combined Adjust. Factor	0.9999562154			Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Vertical Determined By:</td> <td style="width: 50%;">3rd Order - Digital Level</td> </tr> <tr> <td>Elevation Datum:</td> <td>NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td>36 3 32.8823964</td> </tr> <tr> <td>Longitude</td> <td>90 30 53.4908412</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>61.164</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.107</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center; margin: 0;">Location Description</p> <p style="margin: 0;">TO REACH THE STATION FROM THE JUNCTION OF HWY-412 AND HWY-49B IN PARAGOULD, GO WEST ON HWY-412 FOR 0.20MI. TO THE STATION ON THE RIGHT NEAR THE EDGE OF A BURGER KING PARKING LOT AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280009 2002" SET ON TOP OF AN IRON ROD 0.65 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p> </div>	Vertical Determined By:	3rd Order - Digital Level	Elevation Datum:	NAVD 88	Geoid Datum:		Latitude	36 3 32.8823964	Longitude	90 30 53.4908412	Ellipsoid Height (M):	61.164	Geoid Height (M):	-28.107
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Geoid Height (M):	-28.107																																																												

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	MANHOLE COVER		116	14.00	45.9
MK # 2	LIGHT POLE		250	13.70	44.9
MK # 3	COMBINATION POLE		281	16.00	52.5

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 AHTD PAR1</p> <p>Ref Mon # 2 BUTLER</p> <p>Ref Mon # 3 480016 (Brinkley shop)</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark PAR 1.</td> </tr> </table>	Comments	Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark PAR 1.
Comments			
Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark PAR 1.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280010	Date Monumented 12/20/2002	Monumented By AHTD	County GREENE	Route 412	Job Number: 100566,100445
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	191,855.6250	
Easting (M)	539,414.4480	
Elevation (M)*	79.681	
Northing (SFT)	629,446.3297	
Easting (SFT)	1,769,728.9015	
Elevation (SFT)*	261.420	

Convergence Angle	0	54	1.5081989
Scale Factor	0.999969290		
Elevation Adjust. Factor	0.9999874956		
Combined Adjust. Factor	0.9999567860		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF A MANHOLE	163	7.00	23.0
MK # 2	30" CMP	31	14.90	48.9
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 280003, 280003A	Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark L 187.
Ref Mon # 2 AHTD PAR 1	
Ref Mon # 3 MEM 2 CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280010A	Date Monumented 12/20/2002	Monumented By AHTD	County GREENE	Route 412	Job Number: 100566
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	191,829.8899	
Easting (M)	540,179.4100	
Elevation (M)*	78.984	
Northing (SFT)	629,361.8971	
Easting (SFT)	1,772,238.6143	
Elevation (SFT)*	259.133	

Convergence Angle	0	54	19.2818297
Scale Factor	0.999969242		
Elevation Adjust. Factor	0.9999876050		
Combined Adjust. Factor	0.9999568474		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	90	22.50	73.8
MK # 2	COMBINATION POLE	268	24.50	80.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 280003, 280003A	ELEV BY 3-WIRE FROM NGS PARAGOULD
Ref Mon # 2 AHTD PAR 1	
Ref Mon # 3 MEM 2 CORS	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 3 8.7271668
Longitude	90 26 38.8886172
Ellipsoid Height (M):	50.845
Geoid Height (M):	-28.139

Location Description
<p>TO REACH THE STATION FROM U.S. STATE HIGHWAY 412 AND HIGHWAY 135 SOUTH, EAST OF PARAGOULD, GO WEST ON HIGHWAY 412 0.20 MILES TO THE STATION ON THE LEFT. 22.5 METERS WEST OF A FENCE CORNER, 21.3 METERS SOUTH OF THE CENTER OF THE HIGHWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280010A 2002" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280011	Date Monumented 12/20/2002	Monumented By AHTD	County GREENE	Route 412	Job Number: 100566
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	191,874.9059	
Easting (M)	544,533.0690	
Elevation (M)*	74.213	
Northing (SFT)	629,509.5871	
Easting (SFT)	1,786,522.2439	
Elevation (SFT)*	243.480	

Convergence Angle	0	56	0.5072440
Scale Factor	0.999969210		
Elevation Adjust. Factor	0.9999883537		
Combined Adjust. Factor	0.9999575641		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE PEDESTAL	72	6.40	21.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 280003, 280003A Ref Mon # 2 AHTD PAR 1 Ref Mon # 3 MEM 2 CORS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV BY 3-WIRE FROM NGS PARAGOULD</td> </tr> </table>	Comments	ELEV BY 3-WIRE FROM NGS PARAGOULD
Comments			
ELEV BY 3-WIRE FROM NGS PARAGOULD			

Location Description			
TO REACH THE STATION FROM U.S. STATE HIGHWAY 412 AND 139 NORTH, EAST OF PARAGOULD, GO WEST ON HIGHWAY 412 2.20 MILES TO THE STATION ON THE LEFT. 13.9 METERS WEST OF COUNTY ROAD 930, 23.7 METERS SOUTH OF THE CENTER OF THE HIGHWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280011 2002" ON TOP OF A 1.22 METER IRON ROD AND DRIVEN FLUSH WITH THE GROUND.			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	3	7.9209324
Longitude	90	23	44.9316384
Ellipsoid Height (M):	46.049		
Geoid Height (M):	-28.164		

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280011A	Date Monumented 12/20/2002	Monumented By AHTD	County GREENE	Route 412	Job Number: 100566
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	191,876.8419	
Easting (M)	543,847.5070	
Elevation (M)*	75.149	
Northing (SFT)	629,515.9388	
Easting (SFT)	1,784,273.0292	
Elevation (SFT)*	246.551	

Convergence Angle	0	55	44.5709192
Scale Factor	0.999969227		
Elevation Adjust. Factor	0.9999882068		
Combined Adjust. Factor	0.9999574342		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF A 24" CMP	220	6.00	19.7
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 280003, 280003A	ELEV BY 3-WIRE FROM NGS PARAGOULD
Ref Mon # 2 AHTD PAR 1	
Ref Mon # 3 MEM 2 CORS	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280012	Date Monumented 1/2/2003	Monumented By AHTD	County GREENE	Route 49	Job Number: 100445
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	187,811.1399	
Easting (M)	532,726.2940	
Elevation (M)*	90.169	
Northing (SFT)	616,177.0482	
Easting (SFT)	1,747,786.1829	
Elevation (SFT)*	295.828	

Convergence Angle	0	51	24.6203319
Scale Factor	0.999964420		
Elevation Adjust. Factor	0.9999858498		
Combined Adjust. Factor	0.9999502703		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					280012A
MK # 2						27 50 27
MK # 3						26 59 02

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 280010, 280010A	Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark F 324.
Ref Mon # 2 AHTD PAR 1	
Ref Mon # 3 MEM 2 CORS	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280012A	Date Monumented 1/2/2003	Monumented By AHTD	County GREENE	Route 49	Job Number: 100445,101000
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	188,425.0329	
Easting (M)	533,038.8720	
Elevation (M)*	103.694	
Northing (SFT)	618,191.1288	
Easting (SFT)	1,748,811.6992	
Elevation (SFT)*	340.204	

Convergence Angle	0	51	32.0975629
Scale Factor	0.999965148		
Elevation Adjust. Factor	0.9999837272		
Combined Adjust. Factor	0.9999488758		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	8	27.10	88.9
MK # 2	Fire hydrant	18	30.40	99.7
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 280010, 280010A	Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark F 324.
Ref Mon # 2 AHTD PAR 1	
Ref Mon # 3 MEM 2 CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280013	Date Monumented 1/2/2003	Monumented By AHTD	County GREENE	Route 49	Job Number: 100445,100632,100633
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	195,655.4088	
Easting (M)	536,967.5447	
Elevation (M)*	94.246	
Northing (SFT)	641,912.7870	
Easting (SFT)	1,761,701.0196	
Elevation (SFT)*	309.204	

Convergence Angle	0	53	5.9892047
Scale Factor	0.999974402		
Elevation Adjust. Factor	0.9999852100		
Combined Adjust. Factor	0.9999596124		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	5	14.4587220
Longitude	90	28	44.8436208
Ellipsoid Height:	66.103		
Grid Northing (Meters)	195,655.4039		
Grid Easting (Meters)	536,967.5240		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	90	22.00	72.2
MK # 2	GUY POLE	182	19.00	62.3
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 280010, 280010A Ref Mon # 2 AHTD PAR 1 Ref Mon # 3 MEM 2 CORS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation determined by three wire levels from NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.</td> </tr> </table>	Comments	Elevation determined by three wire levels from NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.
Comments			
Elevation determined by three wire levels from NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HWY-49 AND HWY-135 NORTH OF PARAGOULD GO NORTH ON HWY-49 FOR 1.9MI. TO THE STATION ON THE RIGHT. 11.3 METERS WEST OF THE CENTER OF HWY-49 AND 0.50 METERS WEST OF A WITNESS POST.

AZ Mark Station	280013A
Geodetic Azimuth	49 45 28
Grid Azimuth	48 52 22

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280013A	Date Monumented 1/2/2003	Monumented By AHTD	County GREENE	Route 49	Job Number: 100445, 100632
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	196,124.7046	
Easting (M)	537,504.9975	
Elevation (M)*	85.875	
Northing (SFT)	643,452.4683	
Easting (SFT)	1,763,464.3126	
Elevation (SFT)*	281.740	

Convergence Angle	0	53	18.6581140
Scale Factor	0.999975040		
Elevation Adjust. Factor	0.9999865237		
Combined Adjust. Factor	0.9999615640		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UNDERGROUND CABLE MARKER	47	24.05	78.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 280010, 280010A	Elevation determined by three wire levels from NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.
Ref Mon # 2 AHTD PAR 1	
Ref Mon # 3 MEM 2 CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280014	Date Monumented 2/10/2003	Monumented By AHTD	County GREENE	Route 141	Job Number: 100570
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	209,540.0970				
Easting (M)	527,587.7150				
Elevation (M)*	95.044				
Northing (SFT)	687,466.1349				
Easting (SFT)	1,730,927.3616				
Elevation (SFT)*	311.824				

Convergence Angle	0	49	32.4911535
Scale Factor	0.999996187		
Elevation Adjust. Factor	0.9999850847		
Combined Adjust. Factor	0.9999812717		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			4.30	14.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: BUTLER	3 Wire Levels were ran by crew S5103 in Aug 03 from 1st order NGS mark Q 32 in job 100570.
Ref Mon # 2: AHTD PAR 1	
Ref Mon # 3: BLOOMFIELD CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280014A	Date Monumented 2/10/2003	Monumented By AHTD	County GREENE	Route 141	Job Number: 100570
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	209,396.6880	
Easting (M)	527,198.6960	
Elevation (M)*	93.764	
Northing (SFT)	686,995.6339	
Easting (SFT)	1,729,651.0551	
Elevation (SFT)*	307.624	

Convergence Angle	0	49	23.3811856
Scale Factor	0.999995949		
Elevation Adjust. Factor	0.9999852856		
Combined Adjust. Factor	0.9999812347		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF HWY-135 AND HWY-141 IN HOOKER, GO WEST ON HWY-141 FOR 3.10 MILES TO THE STATION ON THE RIGHT. 10.0 METERS NORTH OF THE CENTER OF HWY-141 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "280014A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND. WEST OF HOOKER, NORTH SIDE OF HIGHWAY 141			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1: BUTLER Ref Mon # 2: AHTD PAR 1 Ref Mon # 3: BLOOMFIELD CORS	Comments 3 Wire Levels were ran by crew S5103 in Aug 03 from 1st order NGS mark Q 32 in job 100570.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280015	Date Monumented 2/10/2003	Monumented By AHTD	County GREENE	Route 135	Job Number: 100570
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	211,181.3100	
Easting (M)	531,633.8150	
Elevation (M)*	88.639	
Northing (SFT)	692,850.6812	
Easting (SFT)	1,744,201.9414	
Elevation (SFT)*	290.808	

Convergence Angle	0	51	7.3105692
Scale Factor	0.999998951		
Elevation Adjust. Factor	0.9999860899		
Combined Adjust. Factor	0.9999850409		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 135 AND HIGHWAY 141, GO NORTH ON HIGHWAY 135 0.30 MILES TO THE STATION ON THE LEFT. 9.70 METERS WEST OF THE CENTER OF HWY-135 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "280015 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1					AZ Mark Station	280015A
MK # 2					Geodetic Azimuth	3 50 40
MK # 3					Grid Azimuth	2 59 33

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER Ref Mon # 2 AHTD PAR 1 Ref Mon # 3 BLOOMFIELD CORS	3 Wire Levels were ran by crew S5103 in Aug 03 from 1st order NGS mark Q 32 in job 100570.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280015A	Date Monumented 2/10/2003	Monumented By AHTD	County GREENE	Route 135	Job Number: 100570
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	211,785.3850	
Easting (M)	531,665.3940	
Elevation (M)*	87.840	
Northing (SFT)	694,832.5506	
Easting (SFT)	1,744,305.5468	
Elevation (SFT)*	288.190	

Convergence Angle	0	51	8.2556800
Scale Factor	1.000000022		
Elevation Adjust. Factor	0.9999862152		
Combined Adjust. Factor	0.9999862372		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 135 AND HIGHWAY 141, GO NORTH ON HIGHWAY 135 0.70 MILES TO THE STATION ON THE RIGHT. 10.70 METERS EAST OF THE CENTER OF HWY-135, 14.50 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "280015A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1					AZ Mark Station	280015
MK # 2					Geodetic Azimuth	183 50 41
MK # 3					Grid Azimuth	182 59 33

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER Ref Mon # 2 AHTD PAR 1 Ref Mon # 3 BLOOMFIELD CORS	3 Wire Levels were ran by crew S5103 in Aug 03 from 1st order NGS mark Q 32 in job 100570.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280016	Date Monumented 1/20/2009	Monumented By AHTD	County Greene	Route CR 628	Job Number: 100445
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	194,525.5469	
Easting (M)	528,563.4490	
Elevation (M)*	112.238	
Northing (SFT)	638,205.8985	
Easting (SFT)	1,734,128.5823	
Elevation (SFT)*	368.234	

Convergence Angle	0	49	50.1496415
Scale Factor	0.999973029		
Elevation Adjust. Factor	0.9999823865		
Combined Adjust. Factor	0.9999554160		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone riser box	50	20.27	66.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG, ARBT BLMM	Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark Q 324.
Ref Mon # 2 280012,280012A	
Ref Mon # 3 280006,280006A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280016A	Date Monumented 1/20/2009	Monumented By AHTD	County Greene	Route NA	Job Number: 100445
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	194,542.6049	
Easting (M)	529,104.5400	
Elevation (M)*	105.082	
Northing (SFT)	638,261.8629	
Easting (SFT)	1,735,903.8117	
Elevation (SFT)*	344.758	

Convergence Angle	0	50	2.7384254
Scale Factor	0.999973042		
Elevation Adjust. Factor	0.9999835094		
Combined Adjust. Factor	0.9999565519		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Telephone riser box	298	2.07	6.8	
MK # 2	Combination pole with guy	127	15.70	51.5	
MK # 3	Northwest corner of house #5289	190	26.97	88.5	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG, ARBT BLMM	Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark Q 324.
Ref Mon # 2 280012,280012A	
Ref Mon # 3 280006,280006A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280017	Date Monumented 2/17/2010	Monumented By AHTD	County GREENE	Route 34	Job Number: 100BR1, 100722
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	206,861.1300	
Easting (M)	543,823.4240	
Elevation (M)*	86.382	
Northing (SFT)	678,676.8907	
Easting (SFT)	1,784,194.0169	
Elevation (SFT)*	283.404	

Convergence Angle	0	55	49.6684156
Scale Factor	0.999991236		
Elevation Adjust. Factor	0.9999864441		
Combined Adjust. Factor	0.9999776802		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	150	9.85	32.3
MK # 2	COMBINATION POLE WITH LIGHT	105	28.65	94.0
MK # 3	EAST END 20" CMP	177	10.55	34.6

Area Reference Monuments (used for Processing) Ref Mon # 1 MOWS Ref Mon # 2 TN42 Ref Mon # 3 ARPG	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Comments</th> </tr> <tr> <td colspan="2"> DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722. </td> </tr> </table>	Comments		DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722.	
Comments					
DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722.					

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 135, IN LAKE, GO EAST ON 34 6.4 MILES TO THE STATION MARK ON THE LEFT, EAST 14.1 FEET OF THE CENTERLINE OF A DIRT FIELD ROAD, NORTH 68.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 4.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "280017 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280017A	Date Monumented 2/17/2010	Monumented By AHTD	County GREENE	Route 34	Job Number: 00BR1, 100722, 100878, 10063
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	206,825.2255	0.0010	
Easting (M)	544,474.8630	0.0020	
Elevation (M)*	85.357		
Northing (SFT)	678,559.0940		
Easting (SFT)	1,786,331.2797		
Elevation (SFT)*	280.043		

Convergence Angle	0	56	4.8241979
Scale Factor	0.999991159		
Elevation Adjust. Factor	0.9999866048		
Combined Adjust. Factor	0.9999777639		

SUPERCEDED CONTROL			
Horizontal Datum	NAVD 88		
Latitude	36	11	12.9418080
Longitude	90	23	37.5129060
Ellipsoid Height:	57.049		
Grid Northing (Meters)	206,825.2260		
Grid Easting (Meters)	544,474.8630		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF CMP	30	2.13	7.0
MK # 2	WEST END OF CMP	291	6.58	21.6
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MOWS	DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722. Position superceded by cres S5113 in August 2016, during job 100870.
Ref Mon # 2 TN42	
Ref Mon # 3 ARPG	

AZ Mark Station	280017
Geodetic Azimuth	274 05 18
Grid Azimuth	273 09 13

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280018	Date Monumented 2/17/2010	Monumented By AHTD	County GREENE	Route 34	Job Number: 100BR1, 100722
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	206,842.6979	
Easting (M)	539,687.2510	
Elevation (M)*	105.881	
Northing (SFT)	678,616.4180	
Easting (SFT)	1,770,623.9227	
Elevation (SFT)*	347.376	

Convergence Angle	0	54	13.3457869
Scale Factor	0.999991315		
Elevation Adjust. Factor	0.9999833842		
Combined Adjust. Factor	0.9999746993		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	20" CMP	152	3.96	13.0
MK # 2	18" PINE TREE	20	25.45	83.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="MOWS"/> Ref Mon # 2 <input type="text" value="TN42"/> Ref Mon # 3 <input type="text" value="ARPG"/>	DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722.

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 11 16.0003896
Longitude	90 26 49.0897716
Ellipsoid Height (M):	77.636
Geoid Height (M):	-28.210

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 135, IN LAKE, GO EAST ON 34 3.9 MILES TO THE STATION MARK ON THE LEFT, WEST 18.4 FEET OF THE CENTERLINE OF A DIRT FIELD ROAD, NORTH 34.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "280018 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280018A	Date Monumented 2/17/2010	Monumented By AHTD	County GREENE	Route 34	Job Number: 100BR1, 100722
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	206,803.3370	
Easting (M)	539,032.6110	
Elevation (M)*	96.208	
Northing (SFT)	678,487.2815	
Easting (SFT)	1,768,476.1579	
Elevation (SFT)*	315.644	

Convergence Angle	0	53	58.0872025
Scale Factor	0.999991267		
Elevation Adjust. Factor	0.9999849020		
Combined Adjust. Factor	0.9999761691		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WESTERN MOST TRANSFORMER POLE	95	22.56	74.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: MOWS	DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722.
Ref Mon # 2: TN42	
Ref Mon # 3: ARPG	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280019	Date Monumented 2/17/2010	Monumented By AHTD	County GREENE	Route 34	Job Number: 100BR1, 100722
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	208,421.5699	
Easting (M)	537,184.2380	
Elevation (M)*	127.597	
Northing (SFT)	683,796.4339	
Easting (SFT)	1,762,411.9542	
Elevation (SFT)*	418.626	

Convergence Angle	0	53	15.6291559
Scale Factor	0.999994027		
Elevation Adjust. Factor	0.9999799762		
Combined Adjust. Factor	0.9999740033		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH 3 GUYS	306	28.86	94.7
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MOWS Ref Mon # 2 TN42 Ref Mon # 3 ARPG	DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722.

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 12 8.4878496
Longitude	90 28 28.2764316
Ellipsoid Height (M):	99.331
Geoid Height (M):	-28.227

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 135, IN LAKE, GO EAST ON 34 1.7 MILES TO THE STATION MARK ON THE LEFT, WEST 60.8 FEET OF THE CENTERLINE OF COUNTY ROAD 464, NORTH 39.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 52.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "280019 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280019A	Date Monumented 2/17/2010	Monumented By AHTD	County GREENE	Route 34	Job Number: 100BR1, 100722
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	208,426.1980
Easting (M)	536,642.7980
Elevation (M)*	125.444
Northing (SFT)	683,811.6179
Easting (SFT)	1,760,635.5798
Elevation (SFT)*	411.561

Convergence Angle	0	53	3.0202867
Scale Factor	0.999994049		
Elevation Adjust. Factor	0.9999803141		
Combined Adjust. Factor	0.9999743633		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	20" CMP	265	12.28	40.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MOWS	DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722.
Ref Mon # 2 TN42	
Ref Mon # 3 ARPG	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280020	Date Monumented 	Monumented By AHTD	County Greene	Route 412	Job Number: 100781,Mobie LiDAR-CLS
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Zone Arkansas North	Zone Code 301	Vertical Determined By: None
Horizontal Datum NAD 83 (1997)		Elevation Datum:
Northing (M) 193,727.5871		Geoid Datum: Geoid12A
Easting (M) 514,792.1121		Latitude 36 4 22.1295216
Elevation (M)* 80.548		Longitude 90 43 32.1749976
Northing (SFT) 635,587.9253		Ellipsoid Height (M): 52.437
Easting (SFT) 1,688,947.1211		Geoid Height (M): -28.123
Elevation (SFT)* 264.265		

Convergence Angle 0 44 29.6513685	Location Description East of the county line on 412 for 5.4 miles to the county road #218 and go north for 0.2miles to the station on the left. The station is a standard alum. cap and set on a 4 foot rebar. It is 9 foot west of the witness post LAT: 36 04 22 LONG: 90 43 32
Scale Factor 0.999972209	
Elevation Adjust. Factor 0.9999873596	
Combined Adjust. Factor 0.9999595689	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	South of P.P.	360	19.50	64.0	
MK # 2	North of CL of DW	180	5.49	18.0	
MK # 3	CL of County RD 218				

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280020A	Date Monumented 	Monumented By AHTD	County Greene	Route 412	Job Number: 100781,Mobie LiDAR-CLS
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Zone Arkansas North	Zone Code 301	Vertical Determined By: None
Horizontal Datum NAD 83 (1997)		Elevation Datum:
Northing (M) 193,289.4829		Geoid Datum: Geoid12A
Easting (M) 515,069.9874		Latitude 36 4 7.7996280
Elevation (M)* 80.878		Longitude 90 43 21.2977200
Northing (SFT) 634,150.5785		Ellipsoid Height (M): 52.774
Easting (SFT) 1,689,858.7837		Geoid Height (M): -28.116
Elevation (SFT)* 265.347		

Convergence Angle 0 44 35.9808468	Scale Factor 0.999971620	Location Description East on 412 from the G. & L. County line for 5.6 miles to the station on the right. The station is a standard alum. cap set on a 4 foot rebar. LAT: 36 04 08 LONG: 90 43 21
Elevation Adjust. Factor 0.9999873078	Combined Adjust. Factor 0.9999589281	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	East of 72" cmp	302	5.50	18.0	
MK # 2	East of asphalt DW	270	9.14	30.0	
MK # 3	CL of 412		18.00	59.1	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280021	Date Monumented	Monumented By AHTD	County Greene	Route 412	Job Number: 0781,Mobie LiDAR-CLS,1007
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	778,261.0810
Easting (M)	519,688.2089
Elevation (M)*	87.756 0.0004
Northing (SFT)	2,553,344.8966
Easting (SFT)	1,705,010.3987
Elevation (SFT)*	287.913

Convergence Angle	0	44	35.6141236
Scale Factor	1.000551639		
Elevation Adjust. Factor	0.9999862284		
Combined Adjust. Factor	1.0005378598		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL highway 412		27.13	89.0
MK # 2	N.E. of 62" cmp		5.49	18.0
MK # 3	east of the edge of DW		3.35	11.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>G335 and F335.*****Elevation updated from 287.895' In Sept. 2017 by crew S5101 using digital levels from NGS Benches G335 and F335 during job 100762.</td> </tr> </table>	Comments	G335 and F335.*****Elevation updated from 287.895' In Sept. 2017 by crew S5101 using digital levels from NGS Benches G335 and F335 during job 100762.
Comments			
G335 and F335.*****Elevation updated from 287.895' In Sept. 2017 by crew S5101 using digital levels from NGS Benches G335 and F335 during job 100762.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280021A	Date Monumented 	Monumented By AHTD	County Greene	Route 412	Job Number: 100781,Mobie LiDAR-CLS
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Zone Arkansas North	Zone Code 301	Vertical Determined By: None
Horizontal Datum NAD 83 (1997)		Elevation Datum:
Northing (M) 193,414.1670		Geoid Datum: Geoid12A
Easting (M) 520,199.2343		Latitude 36 4 9.6375468
Elevation (M)* 91.397		Longitude 90 39 56.2675176
Northing (SFT) 634,559.6462		Ellipsoid Height (M): 63.262
Easting (SFT) 1,706,686.9879		Geoid Height (M): -28.154
Elevation (SFT)* 299.858		

Convergence Angle 0 46 35.2877428	Scale Factor 0.999971695	Location Description Starting at the G. & L. County line go east on highway 412 for 8.8 miles to the station on the right. The station is a standard alum. cap and 4 foot rebar. 9.5 foot north of a witness post. LAT:36 04 10 LONG: 90 39 56
Elevation Adjust. Factor 0.9999856570	Combined Adjust. Factor 0.9999573524	

SUPERCEDED CONTROL	
Horizontal Datum 	
Latitude 	
Longitude 	
Ellipsoid Height: 	
Grid Northing (Meters) 	
Grid Easting (Meters) 	

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	CL of highway 412	350	21.95	72.0	
MK # 2	Concrete DW	80	5.79	19.0	
MK # 3	6 foot chain link fence with 3 barbs	170	2.90	9.5	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280022	Date Monumented 10/31/2012	Monumented By AHTD	County Greene	Route 49	Job Number: 100632, 100632,100633
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	198,324.3028	
Easting (M)	540,270.0947	
Elevation (M)*	83.693	
Northing (SFT)	650,668.9834	
Easting (SFT)	1,772,536.1357	
Elevation (SFT)*	274.581	

Convergence Angle	0	54	23.7790841
Scale Factor	0.999978097		
Elevation Adjust. Factor	0.9999868661		
Combined Adjust. Factor	0.9999649634		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	326	17.67	58.0
MK # 2	Telephone box 22	271	15.85	52.0
MK # 3	Service pole 99	273	28.04	92.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG Ref Mon # 2 MODP Ref Mon # 3 MOKE	28 ft. north of CL Greene co. rd. 835, 6.5 ft. south of the w.p. Elevation determined by three wire levels from NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280022A	Date Monumented 10/31/2012	Monumented By AHTD	County Greene	Route 49	Job Number: 100632
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	198,305.1515	
Easting (M)	540,944.0272	
Elevation (M)*	82.250	
Northing (SFT)	650,606.1512	
Easting (SFT)	1,774,747.1959	
Elevation (SFT)*	269.849	

Convergence Angle	0	54	39.4503010
Scale Factor	0.999978054		
Elevation Adjust. Factor	0.9999870924		
Combined Adjust. Factor	0.9999651467		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	113	0.91	3.0
MK # 2	Well Head	131	30.18	99.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 MODP Ref Mon # 3 MOKE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>25ft. south of CL Greene co. rd 835, 2.0 west of w.p. Elevation determined by three wire levels from NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.</td> </tr> </table>	Comments	25ft. south of CL Greene co. rd 835, 2.0 west of w.p. Elevation determined by three wire levels from NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.
Comments			
25ft. south of CL Greene co. rd 835, 2.0 west of w.p. Elevation determined by three wire levels from NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.			

Location Description	
From the intersection of Hwy.135 and Hwy.49 in Paragould, go north on Hwy.49 for 4.15 miles to the Greene Co. rd. 835, then go east on Greene Co. rd 835 for .425 miles to the station on the right. A standard GPS Alum cap stamped 280022A 2012 on a 4ft. 5/8inch rebar driven below ground surface. Lat-36.0639 Long-90.2604	

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280023	Date Monumented 10/31/2012	Monumented By AHTD	County Greene	Route 49	Job Number: 100633, 100632, 100633
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	201,974.2335	
Easting (M)	542,632.8145	
Elevation (M)*	82.424	
Northing (SFT)	662,643.7977	
Easting (SFT)	1,780,287.8256	
Elevation (SFT)*	270.419	

Convergence Angle	0	55	20.1118847
Scale Factor	0.999983476		
Elevation Adjust. Factor	0.9999870652		
Combined Adjust. Factor	0.9999705414		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Southeast corner of metal bridge rail	345	2.29	7.5
MK # 2	Telephone box 4317	323	3.35	11.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG Ref Mon # 2 MODP Ref Mon # 3 MOKE	25.5ft. south of CL of Greene Co. rd 823, 23ft. west of center of field rd. 2.0 ft. north of w.p. Elevation determined by three wire levels from NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.

Location Description	
From the intersection of Hwy.49 and Hwy.34 in Marmaduke, go south on Hwy.49 for 3.45miles to Greene Co. rd 823, then go east on Greene Co. rd for .05miles to the station on the right. A standard GPS Alum cap stamped 280023 2012 on a 4ft. 5/8inch rebar driven below ground surface. Lat-36.0836 Long-90.2454	

Vertical Determined By:	3rd Order - 3 Wire Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12A
Latitude	36 8 36.5456040
Longitude	90 24 54.3515040
Ellipsoid Height (M):	54.125
Geoid Height (M):	-28.290

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280023A	Date Monumented 10/31/2012	Monumented By AHTD	County Greene	Route 49	Job Number: 100633, 100632
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	201,975.8387	
Easting (M)	543,243.1053	
Elevation (M)*	81.526	
Northing (SFT)	662,649.0641	
Easting (SFT)	1,782,290.0880	
Elevation (SFT)*	267.472	

Convergence Angle	0	55	34.3159638
Scale Factor	0.999983463		
Elevation Adjust. Factor	0.9999872062		
Combined Adjust. Factor	0.9999706694		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	5	14.4587220
Longitude	90	24	29.9416320
Ellipsoid Height:	53.227		
Grid Northing (Meters)	195,756.1913		
Grid Easting (Meters)	543,343.6562		

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Telephone box 4482	190	1.52	5.0	AZ Mark Station
MK # 2	Power Pole	170	1.52	5.0	Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 MODP Ref Mon # 3 MOKE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>16ft. south of CL of Greene Co. rd 823, 96ft. west of gravel field entrance. 1.0ft North w.p. Elevation determined by three wire levels from NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.</td> </tr> </table>	Comments	16ft. south of CL of Greene Co. rd 823, 96ft. west of gravel field entrance. 1.0ft North w.p. Elevation determined by three wire levels from NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.
Comments			
16ft. south of CL of Greene Co. rd 823, 96ft. west of gravel field entrance. 1.0ft North w.p. Elevation determined by three wire levels from NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280024	Date Monumented 10/31/2012	Monumented By AHTD	County Greene	Route 49	Job Number: 100633, 100632
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas North</td> <td>301</td> </tr> <tr> <td>Horizontal Datum</td> <td>NAD 83 (1997)</td> </tr> <tr> <td>Northing (M)</td> <td>205,214.7455</td> </tr> <tr> <td>Easting (M)</td> <td>544,575.8249</td> </tr> <tr> <td>Elevation (M)*</td> <td>83.162</td> </tr> <tr> <td>Northing (SFT)</td> <td>673,275.3775</td> </tr> <tr> <td>Easting (SFT)</td> <td>1,786,662.5189</td> </tr> <tr> <td>Elevation (SFT)*</td> <td>272.841</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Convergence Angle</td> <td style="width: 10%;">0</td> <td style="width: 10%;">56</td> <td style="width: 30%;">6.5630487</td> </tr> <tr> <td>Scale Factor</td> <td colspan="3">0.999988526</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td colspan="3">0.9999869493</td> </tr> <tr> <td>Combined Adjust. Factor</td> <td colspan="3">0.9999754755</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 10px;"> SUPERCEDED CONTROL </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas North	301	Horizontal Datum	NAD 83 (1997)	Northing (M)	205,214.7455	Easting (M)	544,575.8249	Elevation (M)*	83.162	Northing (SFT)	673,275.3775	Easting (SFT)	1,786,662.5189	Elevation (SFT)*	272.841	Convergence Angle	0	56	6.5630487	Scale Factor	0.999988526			Elevation Adjust. Factor	0.9999869493			Combined Adjust. Factor	0.9999754755			Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Vertical Determined By:</td> <td style="width: 50%;">None</td> </tr> <tr> <td>Elevation Datum:</td> <td>NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td>GEOID12A</td> </tr> <tr> <td>Latitude</td> <td>36 10 20.6452560</td> </tr> <tr> <td>Longitude</td> <td>90 23 34.5246720</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>54.866</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.302</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">Location Description</p> <p>From the intersection of Hwy.49 and Hwy.34 in Marmaduke, go south on Hwy. 49 for 1.1miles to Greene Co. rd 842, then go east on Greene Co. rd 842 for 109.ft to the station on the right. A standard GPS Alum cap stamped 280024 2012 on a 4ft 5/8inch rebar driven below ground surface. Lat-36.1021 Long-90.2334 23. ft south of CL Greene Co. rd. 842, 33. ft east of the east rail., 5.ft north of w.p.</p> </div>	Vertical Determined By:	None	Elevation Datum:	NAVD 88	Geoid Datum:	GEOID12A	Latitude	36 10 20.6452560	Longitude	90 23 34.5246720	Ellipsoid Height (M):	54.866	Geoid Height (M):	-28.302
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Longitude	90 23 34.5246720																																																												
Ellipsoid Height (M):	54.866																																																												
Geoid Height (M):	-28.302																																																												

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	service pole	199	1.74	5.7	AZ Mark Station
MK # 2	power pole with triple transformers	112	9.30	30.5	Geodetic Azimuth
MK # 3					Grid Azimuth

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARPG</p> <p>Ref Mon # 2 MODP</p> <p>Ref Mon # 3 MOKE</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Comments</p> <p>Position determined by static GPS observation in May 2015 by crew s5102. Elevation determined by digital levels by crew S5114 during job 100878 in Jan. 2017. Levels based on GPS mon 280017A.</p> </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280024A	Date Monumented 10/31/2012	Monumented By AHTD	County Greene	Route 49	Job Number: 100633
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<table style="width: 100%;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas South</td> <td></td> </tr> <tr> <td colspan="2">Horizontal Datum</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td>Northing (M)</td> <td>#Error</td> </tr> <tr> <td>Easting (M)</td> <td>#Error</td> </tr> <tr> <td>Elevation (M)*</td> <td></td> </tr> <tr> <td>Northing (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Easting (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Elevation (SFT)*</td> <td></td> </tr> </table> <table style="width: 100%;"> <tr> <td style="width: 50%;">Convergence Angle</td> <td>###/###</td> <td>#Error</td> </tr> <tr> <td>Scale Factor</td> <td></td> <td>#Error</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td></td> <td></td> </tr> <tr> <td>Combined Adjust. Factor</td> <td></td> <td>#Type!</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;">SUPERCEDED CONTROL</div> <table style="width: 100%;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas South		Horizontal Datum				Northing (M)	#Error	Easting (M)	#Error	Elevation (M)*		Northing (SFT)	#Type!	Easting (SFT)	#Type!	Elevation (SFT)*		Convergence Angle	###/###	#Error	Scale Factor		#Error	Elevation Adjust. Factor			Combined Adjust. Factor		#Type!	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table style="width: 100%;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td style="width: 40%;"></td> </tr> <tr> <td>Elevation Datum:</td> <td></td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">Location Description</p> <p>From the intersection of Hwy.49 and Hwy.34 in Marmaduke, go south on Hwy.49 for 1.1miles to Greene Co. rd. 842, then go east on Greene Co. rd 842 for .4miles to the station on the left. A standard GPS Alum cap stamped 280024A 2012 on a 4ft. 5/8inch rebar driven below ground surface. Lat-36.1021 Long-90.2311</p> </div>	Vertical Determined By:		Elevation Datum:		Geoid Datum:		Latitude		Longitude		Ellipsoid Height (M):		Geoid Height (M):	
Zone	Zone Code																																																										
Arkansas South																																																											
Horizontal Datum																																																											
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Latitude																																																											
Longitude																																																											
Ellipsoid Height (M):																																																											
Geoid Height (M):																																																											

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	358	1.22	4.0
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARPG</p> <p>Ref Mon # 2 MODP</p> <p>Ref Mon # 3 MOKE</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Comments</p> <p>17ft. north of CL of Greene Co. Rd 842, 3ft. south of W.P.</p> </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280025	Date Monumented 8/29/2017	Monumented By AHTD	County Greene	Route 141	Job Number: 100762, 101107
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	188,272.8067 0.0030
Easting (M)	518,614.7183 0.0030
Elevation (M)*	122.918 0.0023
Northing (SFT)	617,691.7000
Easting (SFT)	1,701,488.4550
Elevation (SFT)*	403.274

Convergence Angle	0 45 56.8455718
Scale Factor	0.999965210
Elevation Adjust. Factor	0.9999807105
Combined Adjust. Factor	0.9999459212

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	North post metal sign Mt Zion Cemetery	150	13.87	45.5
MK # 2	James & Rosetta Arnold headstone	100	8.39	27.5
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARPG Ref Mon # 3 ARWY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>G335 and F335 The station is 56.0' North of the center of the cemetery entrance. Elevation derived by digital levels from NGS BMs by crew S5101 in Sept. 2017 during job 100762.</td> </tr> </table>	Comments	G335 and F335 The station is 56.0' North of the center of the cemetery entrance. Elevation derived by digital levels from NGS BMs by crew S5101 in Sept. 2017 during job 100762.
Comments			
G335 and F335 The station is 56.0' North of the center of the cemetery entrance. Elevation derived by digital levels from NGS BMs by crew S5101 in Sept. 2017 during job 100762.			

Location Description
From the intersection of US hwy 412 and AR hwy 141 west of Paragould AR travel south along hwy 141, 3.5 miles to reach the station on the left, 22.5' east of the CL of the hwy at Mt. Zion cemetery. The station is a standard 3" alum. Cap stamped 280025, 2017 on a 4' rebar driven 0.1' below the surface.

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12B
Latitude	36 1 23.5321320
Longitude	90 41 2.3308080
Ellipsoid Height (M):	94.870 0.0000
Geoid Height (M):	-28.049

AZ Mark Station	280025A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280025A	Date Monumented 8/29/2017	Monumented By AHTD	County Greene	Route 141	Job Number: 100762, 101107
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	188,641.3909 0.0030
Easting (M)	518,681.7681 0.0030
Elevation (M)*	107.587 0.0022
Northing (SFT)	618,900.9633
Easting (SFT)	1,701,708.4342
Elevation (SFT)*	352.976

Convergence Angle	0 45 58.5183199
Scale Factor	0.999965654
Elevation Adjust. Factor	0.9999831163
Combined Adjust. Factor	0.9999487709

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	South end of 18" CMP	45	2.74	9.0
MK # 2	Telephone Pedestal	110	22.50	73.8
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARPG Ref Mon # 3 ARWY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px; vertical-align: top;"> The station is 19.0' south of the CL of a concrete driveway to two story brick home, 3328 Hwy 141. Elevation derived by digital levels from NGS BMs by crew S5101 in Sept. 2017 during job 100762. </td> </tr> </table>	Comments	The station is 19.0' south of the CL of a concrete driveway to two story brick home, 3328 Hwy 141. Elevation derived by digital levels from NGS BMs by crew S5101 in Sept. 2017 during job 100762.
Comments			
The station is 19.0' south of the CL of a concrete driveway to two story brick home, 3328 Hwy 141. Elevation derived by digital levels from NGS BMs by crew S5101 in Sept. 2017 during job 100762.			

Location Description
From the intersection of US hwy 412 and AR hwy 141 west of Paragould AR travel south along hwy 141, 3.2 miles to reach the station on the right, 27.0' west of the CL of the hwy . The station is a standard 3" alum. Cap stamped 280025A, 2017 on a 4' rebar driven 0.1' below the surface.

AZ Mark Station	280025
Geodetic Azimuth	
Grid Azimuth	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290001	Date Monumented 2/1/2000	Monumented By AHTD	County HEMPSTEAD	Route 174	Job Number: R30045, 030078
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	510,716.9931	
Easting (M)	250,841.6800	
Elevation (M)*	98.850	
Northing (SFT)	1,675,577.3349	
Easting (SFT)	822,969.7451	
Elevation (SFT)*	324.310	

Convergence Angle	0	54	0.3635098
Scale Factor	0.999940337		
Elevation Adjust. Factor	0.9999844875		
Combined Adjust. Factor	0.9999248254		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF CMP	130	9.55	31.3
MK # 2	COMBINATION POLE	240	8.30	27.2
MK # 3	LIGHT POLE	332	12.52	41.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HOPE 1	
Ref Mon # 2 X 303	
Ref Mon # 3 NEW BOSTON MAG. STA.	

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 39 15.6271176

Longitude 93 36 29.5612452

Ellipsoid Height (M): 71.419

Geoid Height (M): -26.865

Location Description

FROM THE JCT. OF HWY. 67 AND HWY. 174 IN HOPE, GO SOUTH ON HWY. 174 (SPRINGDALE DRIVE) FOR 1.367 KM (0.85 MI) TO THE JCT. WITH 16TH STREET. TURN RIGHT ON 16TH STREET AND GO WEST 0.24 KM (0.15 MI) TO THE STATION ON THE RIGHT IN THE PARKING LOT OF THE CITY SOFTBALL FIELDS. THE STATION IS 13.35 METERS NORTH OF THE CENTER OF 16TH STREET AND 4.77 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "290001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND SET IN A SQUARE CUTOUT IN THE PARKING LOT AND IS 5.0 CENTIMETERS BELOW THE SURFACE. THE SHOT DISTANCE IS 584.317 METERS. THIS STATION WAS UPDATED 3/2/00.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290001A	Date Monumented 2/1/2000	Monumented By AHTD	County HEMPSTEAD	Route 174	Job Number: R30045
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	510,712.9132				
Easting (M)	250,257.4110				
Elevation (M)*	97.155				
Northing (SFT)	1,675,563.9494				
Easting (SFT)	821,052.8559				
Elevation (SFT)*	318.749				

Convergence Angle	0	54	13.0528598
Scale Factor	0.999940351		
Elevation Adjust. Factor	0.9999847534		
Combined Adjust. Factor	0.9999251054		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	POWER POLE	265	18.10	59.4		290001
MK # 2	EAST END 24" CMP	275	23.55	77.3		88 41 46.721859
MK # 3	NONE					89 35 59.712246

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HOPE 1	
Ref Mon # 2 X 303	
Ref Mon # 3 NEW BOSTON MAG. STA.	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290002	Date Monumented 4/2/1996	Monumented By AHTD	County HEMPSTEAD	Route 73	Job Number: 30056
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 519,005.1151		Latitude 33 43 38.7462972
Easting (M) 239,751.3120		Longitude 93 43 45.3872712
Elevation (M)* 130.921		Ellipsoid Height (M): 103.359
Northing (SFT) 1,702,769.2818		Geoid Height (M): -27.562
Easting (SFT) 786,584.0961		
Elevation (SFT)* 429.530		

Convergence Angle	0	58	4.2912776
Scale Factor	0.999932739		
Elevation Adjust. Factor	0.9999794546		
Combined Adjust. Factor	0.9999121950		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	101	23.19	76.1	AZ Mark Station 290002A
MK # 2	POWER POLE	282	31.31	102.7	Geodetic Azimuth 269 01 09.01567
MK # 3	NONE				Grid Azimuth 269 59 13.34417

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	Cross Reference Job: 30088 ELEVATION ON THESE STATIONS WAS ARRIVED AT USING TBM'S ON JOB #30088.
Ref Mon # 2 X 303 BM	
Ref Mon # 3 PATE 1941	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290002A	Date Monumented 4/2/1996	Monumented By AHTD	County HEMPSTEAD	Route 73	Job Number: 30056
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	519,005.0172				
Easting (M)	239,320.3390				
Elevation (M)*	132.564				
Northing (SFT)	1,702,768.9606				
Easting (SFT)	785,170.1455				
Elevation (SFT)*	434.920				

Convergence Angle	0	58	13.6601068
Scale Factor	0.999932745		
Elevation Adjust. Factor	0.9999791968		
Combined Adjust. Factor	0.9999119432		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	263	14.70	48.2
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	Cross Reference Job: 30088 ELEVATION ON THESE STATIONS WAS ARRIVED AT USING TBM'S ON JOB #30088.
Ref Mon # 2 X 303 BM	
Ref Mon # 3 PATE 1941	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290003	Date Monumented 4/2/1996	Monumented By AHTD	County HEMPSTEAD	Route 73	Job Number: 30056
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	523,782.6451	
Easting (M)	235,293.3150	
Elevation (M)*	131.604	
Northing (SFT)	1,718,443.5615	
Easting (SFT)	771,958.1510	
Elevation (SFT)*	431.771	

Convergence Angle	0	59	43.0066670
Scale Factor	0.999929073		
Elevation Adjust. Factor	0.9999793475		
Combined Adjust. Factor	0.9999084219		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	GAS METER	206		14.10	46.3
MK # 2	LIGHT POLE	326		5.90	19.4
MK # 3	NONE				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	Cross Reference Job: 30088 ELEVATION ON THESE STATIONS WAS ARRIVED AT USING TBM'S ON JOB #30088.
Ref Mon # 2 X 303 BM	
Ref Mon # 3 PATE 1941	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290003A	Date Monumented 4/2/1996	Monumented By AHTD	County HEMPSTEAD	Route 73	Job Number: 30056
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	523,263.3781				
Easting (M)	235,547.6580				
Elevation (M)*	129.107				
Northing (SFT)	1,716,739.9330				
Easting (SFT)	772,792.6080				
Elevation (SFT)*	423.579				

Convergence Angle	0	59	37.2789452
Scale Factor	0.999929448		
Elevation Adjust. Factor	0.9999797393		
Combined Adjust. Factor	0.9999091887		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	234	1.90	6.2
MK # 2	FENCE CORNER AND GATE POST	305	14.70	48.2
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT Ref Mon # 2 X 303 BM Ref Mon # 3 PATE 1941	Cross Reference Job: 30088 ELEVATION ON THESE STATIONS WAS ARRIVED AT USING TBM'S ON JOB #30088.

Location Description	
TO REACH THE STATION FROM THE POST OFFICE IN THE SMALL TOWN OF COLUMBUS ABOUT 25KM. NORTHWEST OF HOPE, GO EAST ON HWY-73 FOR 5.05 KM. (3.15 MI.) TO THE STATION ON THE RIGHT. 16.30 METERS SOUTHEAST OF THE CENTER OF A WOODS ROAD, 11.60 METERS SOUTHWEST OF HWY-73 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290003A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290004	Date Monumented 4/2/1996	Monumented By AHTD	County HEMPSTEAD	Route 73	Job Number: 30056
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 524,678.4851		Latitude 33 46 38.2670868
Easting (M) 231,569.6220		Longitude 93 49 7.0817736
Elevation (M)* 133.984		Ellipsoid Height (M): 106.303
Northing (SFT) 1,721,382.6632		Geoid Height (M): -27.645
Easting (SFT) 759,741.3348		
Elevation (SFT)* 439.579		

Convergence Angle -1 1 4.3406946	Location Description
Scale Factor 0.999928482	<p>TO REACH THE STATION FROM THE POST OFFICE IN THE SMALL TOWN OF COLUMBUS, LOCATED ABOUT 25.0 KILOMETERS NORTHWEST OF HOPE, GO EAST ON HIGHWAY 73 FOR 0.32 KILOMETERS 0.20 MILES TO THE STATION ON THE LEFT. 0.50 METERS SOUTH OF WITNESS POST, 7.10 METERS SOUTHEAST OF THE CENTER OF COUNTY ROAD 35N, 15.0 METERS NORTH OF THE CENTER OF HIGHWAY 73. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290004 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 0.9999789740	
Combined Adjust. Factor 0.9999074575	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTHEAST END CULVERT	278	6.65	21.8	AZ Mark Station 290004A
MK # 2	NONE				Geodetic Azimuth 243 38 32.73281
MK # 3	NONE				Grid Azimuth 244 39 37.09480

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT Ref Mon # 2 X 303 BM Ref Mon # 3 PATE 1941	Cross Reference Job: 30088 ELEVATION ON THESE STATIONS WAS ARRIVED AT USING TBM'S ON JOB #30088.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290004A	Date Monumented 4/2/1996	Monumented By AHTD	County HEMPSTEAD	Route 73	Job Number: 30056
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	524,538.2381	
Easting (M)	231,273.4580	
Elevation (M)*	130.717	
Northing (SFT)	1,720,922.5362	
Easting (SFT)	758,769.6701	
Elevation (SFT)*	428.861	

Convergence Angle	-1	1	10.7283300
Scale Factor	0.999928584		
Elevation Adjust. Factor	0.9999794867		
Combined Adjust. Factor	0.9999080721		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST END OF CULVERT	102	5.65	18.5
MK # 2	LIGHT POLE	253	10.43	34.2
MK # 3	NORTHEAST END OF CULVERT	226	24.48	80.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	Cross Reference Job: 30088 ELEVATION ON THESE STATIONS WAS ARRIVED AT USING TBM'S ON JOB #30088.
Ref Mon # 2 X 303 BM	
Ref Mon # 3 PATE 1941	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290005	Date Monumented 7/29/1998	Monumented By AHTD	County HEMPSTEAD	Route 278	Job Number: R30054
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	533,294.7132	
Easting (M)	233,146.8460	
Elevation (M)*	139.754	
Northing (SFT)	1,749,651.0716	
Easting (SFT)	764,915.9439	
Elevation (SFT)*	458.510	

Convergence Angle	-1	0	33.3356478
Scale Factor	0.999923334		
Elevation Adjust. Factor	0.9999780685		
Combined Adjust. Factor	0.9999014042		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WOODEN LINE POST	288	15.90	52.2	290005A
MK # 2	WESTERN MOST WOODEN BRACE POST	121	30.12	98.8	118 40 32.78041
MK # 3					119 41 06.09912

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	
Ref Mon # 2 X 303	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290005A	Date Monumented 7/29/1998	Monumented By AHTD	County HEMPSTEAD	Route 278	Job Number: R30054
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	533,105.9681	
Easting (M)	233,477.9520	
Elevation (M)*	139.905	
Northing (SFT)	1,749,031.8303	
Easting (SFT)	766,002.2475	
Elevation (SFT)*	459.005	

Convergence Angle	-1	0	26.0548414
Scale Factor	0.999923424		
Elevation Adjust. Factor	0.9999780448		
Combined Adjust. Factor	0.9999014705		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278 AND STATE HIGHWAY 332, LOCATED ABOUT 11.27 KM (7.00 MI) SOUTH OF NASHVILLE, GO EAST ON U.S. HIGHWAY 278 FOR 0.50 KM (0.31 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.30 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 278 AND 1.55 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290005A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					290005
MK # 2						298 40 40.02731
MK # 3						299 41 06.09912

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	
Ref Mon # 2 X 303	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290006	Date Monumented 7/28/1998	Monumented By AHTD	County HEMPSTEAD	Route 278	Job Number: R30054
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	533,094.5431	
Easting (M)	236,576.8950	
Elevation (M)*	129.322	
Northing (SFT)	1,748,994.3468	
Easting (SFT)	776,169.3630	
Elevation (SFT)*	424.284	

Convergence Angle	0	59	18.5838895
Scale Factor	0.999923403		
Elevation Adjust. Factor	0.9999797056		
Combined Adjust. Factor	0.9999031101		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN LINE POST	126	12.51	41.0
MK # 2	TELEPHONE JUNCTION BOX	287	15.50	50.9
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>HOPEPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>X 303</td> </tr> <tr> <td>Ref Mon # 3</td> <td></td> </tr> </table>	Ref Mon # 1	HOPEPORT	Ref Mon # 2	X 303	Ref Mon # 3		<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	HOPEPORT							
Ref Mon # 2	X 303							
Ref Mon # 3								
Comments								

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 51 14.2434540
Longitude	93 45 58.1259672
Ellipsoid Height (M):	102.328
Geoid Height (M):	-26.994

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278 AND STATE HIGHWAY 332, LOCATED ABOUT 11.27 KM (7.00 MI) SOUTH OF NASHVILLE, GO EAST ON U.S. HIGHWAY 278 FOR 3.86 KM (2.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.75 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 278 AND 2.33 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290006 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	290006A
Geodetic Azimuth	116 25 38.75647
Grid Azimuth	117 24 57.31552

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290006A	Date Monumented 7/29/1998	Monumented By AHTD	County HEMPSTEAD	Route 278	Job Number: R30054
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	532,844.2771	
Easting (M)	237,059.3730	
Elevation (M)*	130.185	
Northing (SFT)	1,748,173.2658	
Easting (SFT)	777,752.2929	
Elevation (SFT)*	427.115	

Convergence Angle	0	59	7.9861408
Scale Factor	0.999923523		
Elevation Adjust. Factor	0.9999795701		
Combined Adjust. Factor	0.9999030947		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	POWER POLE	299	25.16	82.5		290006
MK # 2	TELEPHONE JUNCTION BOX	226	27.56	90.4		296 25 49.30456
MK # 3						297 24 57.31552

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	
Ref Mon # 2 X 303	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290007	Date Monumented 7/28/1998	Monumented By AHTD	County HEMPSTEAD	Route 278	Job Number: R30054
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	531,280.6691	
Easting (M)	241,437.1740	
Elevation (M)*	116.789	
Northing (SFT)	1,743,043.3285	
Easting (SFT)	792,115.1284	
Elevation (SFT)*	383.165	

Convergence Angle	0	57	32.1090374
Scale Factor	0.999924293		
Elevation Adjust. Factor	0.9999816723		
Combined Adjust. Factor	0.9999059667		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	R/W MARKED SIGN	48	1.50	4.9	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	
Ref Mon # 2 X 303	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290007A	Date Monumented 7/29/1998	Monumented By AHTD	County HEMPSTEAD	Route 278	Job Number: R30054
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	531,853.9791	
Easting (M)	241,054.9280	
Elevation (M)*	113.627	
Northing (SFT)	1,744,924.2631	
Easting (SFT)	790,861.0429	
Elevation (SFT)*	372.791	

Convergence Angle	0	57	40.6388416
Scale Factor	0.999923993		
Elevation Adjust. Factor	0.9999821685		
Combined Adjust. Factor	0.9999061629		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	153	19.60	64.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	
Ref Mon # 2 X 303	
Ref Mon # 3	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 50 36.4555752
Longitude	93 43 3.1274364
Ellipsoid Height (M):	86.659
Geoid Height (M):	-26.968

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278 AND STATE HIGHWAY 332, LOCATED ABOUT 11.27 KM (7.00 MI) SOUTH OF NASHVILLE, GO EAST ON U.S. HIGHWAY 278 FOR 9.33 KM (5.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 20.50 METERS SOUTHEAST OF THE CENTER OF COUNTY ROAD 58, 11.90 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 278 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290007A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	290007
Geodetic Azimuth	145 20 45.60615
Grid Azimuth	146 18 26.22372

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290008	Date Monumented 2/1/1999	Monumented By AHTD	County HEMPSTEAD	Route 174	Job Number: R30045
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	505,488.2721	
Easting (M)	247,778.9070	
Elevation (M)*	102.031	
Northing (SFT)	1,658,422.7727	
Easting (SFT)	812,921.2974	
Elevation (SFT)*	334.747	

Convergence Angle	0	55	5.0689473
Scale Factor	0.999946149		
Elevation Adjust. Factor	0.9999839883		
Combined Adjust. Factor	0.9999301381		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END LINE BRACE POST	13	3.00	9.8
MK # 2	SOUTH END LINE BRACE POST	258	140.00	459.3
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD HOPE 1 Ref Mon # 2 X 303 Ref Mon # 3 NEW BOSTON MAG. STA.	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 36 24.3525564
Longitude	93 38 25.1705256
Ellipsoid Height (M):	74.642
Geoid Height (M):	-26.867

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 145 AND STATE HIGHWAY 355, LOCATED ABOUT 8.0 KM (5.00 MI) SOUTHWEST OF HOPE, GO NORTHEAST ON STATE HIGHWAY 174 FOR 2.33 KM (1.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.50 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 174 AND 0.78 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A SANDARD 64mm CAP STAMPED "290008 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 451.021 METERS.

AZ Mark Station	290008A
Geodetic Azimuth	211 31 02.88958
Grid Azimuth	212 26 07.98695

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290008A	Date Monumented 2/1/2000	Monumented By AHTD	County HEMPSTEAD	Route 174	Job Number: R30045
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	505,107.6311	
Easting (M)	247,537.0140	
Elevation (M)*	98.429	
Northing (SFT)	1,657,173.9530	
Easting (SFT)	812,127.6868	
Elevation (SFT)*	322.929	

Convergence Angle	0	55	10.1874763
Scale Factor	0.999946599		
Elevation Adjust. Factor	0.9999845535		
Combined Adjust. Factor	0.9999311533		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	31	17.58	57.7
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	AHTD HOPE 1
Ref Mon # 2	X 303
Ref Mon # 3	NEW BOSTON MAG. STA.

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290009	Date Monumented 2/1/2000	Monumented By AHTD	County HEMPSTEAD	Route 174	Job Number: R30045
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	508,184.3011				
Easting (M)	249,200.4910				
Elevation (M)*	92.818				
Northing (SFT)	1,667,267.9945				
Easting (SFT)	817,585.2776				
Elevation (SFT)*	304.520				

Convergence Angle	0	54	35.1377000
Scale Factor	0.999943069		
Elevation Adjust. Factor	0.9999854340		
Combined Adjust. Factor	0.9999285039		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	CORNER FENCE POST	40	8.00	26.2	290009A
MK # 2	CORNER FENCE POST	70	1.70	5.6	35 23 56.943791
MK # 3	SOUTHWEST END OF RCP	341	2.40	7.9	36 18 32.061077

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HOPE 1	
Ref Mon # 2 X 303	
Ref Mon # 3 NEW BOSTON MAG. STA.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290009A	Date Monumented 2/1/2000	Monumented By AHTD	County HEMPSTEAD	Route 174	Job Number: R30045
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	508,435.3452	
Easting (M)	249,384.9610	
Elevation (M)*	88.232	
Northing (SFT)	1,668,091.6284	
Easting (SFT)	818,190.4929	
Elevation (SFT)*	289.474	

Convergence Angle	0	54	31.2184254
Scale Factor	0.999942791		
Elevation Adjust. Factor	0.9999861537		
Combined Adjust. Factor	0.9999289455		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN TOP OF METAL GUARD RAIL POST	46	4.30	14.1
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>AHTD HOPE 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>X 303</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NEW BOSTON MAG. STA.</td> </tr> </table>	Ref Mon # 1	AHTD HOPE 1	Ref Mon # 2	X 303	Ref Mon # 3	NEW BOSTON MAG. STA.	<table border="1" style="width: 100%; height: 150px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	AHTD HOPE 1							
Ref Mon # 2	X 303							
Ref Mon # 3	NEW BOSTON MAG. STA.							
Comments								

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 38 0.8302452

Longitude 93 37 24.6897588

Ellipsoid Height (M): 60.868

Geoid Height (M): -26.867

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 145 AND STATE HIGHWAY 355, LOCATED ABOUT 8.0 KM (5.00 MI) SOUTHWEST OF HOPE, GO NORTHEAST ON STATE HIGHWAY 174 FOR 5.71 KM (3.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.63 METERS SOUTHWEST OF THE SOUTHWEST CORNER OF A BRIDGE OVER BLACK BRANCH, 6.70 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 174 AND 0.90 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290009A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 311.558 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290010	Date Monumented 4/26/2001	Monumented By AHTD	County HEMPSTEAD	Route 29	Job Number: 030238
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	519,612.5200	
Easting (M)	253,579.5921	
Elevation (M)*	105.662	
Northing (SFT)	1,704,762.0760	
Easting (SFT)	831,952.3784	
Elevation (SFT)*	346.660	

Convergence Angle	0	53	3.8764839
Scale Factor	0.999932052		
Elevation Adjust. Factor	0.9999834184		
Combined Adjust. Factor	0.9999154716		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WOODEN GATE POST	356	18.55	60.9	
MK # 2	NONE				
MK # 3	NONE				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>HOPE 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>HOPE 2</td> </tr> <tr> <td>Ref Mon # 3</td> <td>HOPEPORT</td> </tr> </table>	Ref Mon # 1	HOPE 1	Ref Mon # 2	HOPE 2	Ref Mon # 3	HOPEPORT	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	HOPE 1						
Ref Mon # 2	HOPE 2						
Ref Mon # 3	HOPEPORT						

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 44 5.7142392
Longitude	93 34 48.6358104
Ellipsoid Height (M):	78.755
Geoid Height (M):	-26.878

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29 AND STATE HIGHWAY 32, LOCATED ABOUT 1.61 KM (1.00 MI) NORTH OF HOPE, GO NORTH ON STATE HIGHWAY 29 FOR 4.30 KM (2.67 MI) TO THE STATION ON THE RIGHT. THE STATION IS 21.00 METERS SOUTH OF THE CENTER OF A PASTURE ENTRANCE, 12.75 METERS EAST OF THE CENTER OF STATE HIGHWAY 29 AND 0.90 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290010 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 501.329 METERS.

AZ Mark Station	290010A
Geodetic Azimuth	184 14 09.58927
Grid Azimuth	185 07 13.46889

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290010A	Date Monumented 4/26/2001	Monumented By AHTD	County HEMPSTEAD	Route 29	Job Number: 030238
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 519,113.2300		Latitude 33 43 49.4874300
Easting (M) 253,534.8524		Longitude 93 34 50.0742552
Elevation (M)* 107.644		Ellipsoid Height (M): 80.745
		Geoid Height (M): -26.877

Northing (SFT) 1,703,123.9888		
Easting (SFT) 831,805.5949		
Elevation (SFT)* 353.162		

Convergence Angle 0 53 4.6815680		
Scale Factor 0.999932463		
Elevation Adjust. Factor 0.9999831074		
Combined Adjust. Factor 0.9999155716		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29 AND STATE HIGHWAY 32, LOCATED ABOUT 1.61 KM (1.00 MI) NORTH OF HOPE, GO NORTH ON STATE HIGHWAY 29 FOR 3.80 KM (2.36 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.10 METERS WEST OF THE CENTER OF STATE HIGHWAY 29 AND 0.50 EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290010A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 501.329 METERS.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	338	18.72	61.4
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station 390010	
Geodetic Azimuth 4 14 08.790478	
Grid Azimuth 5 07 13.468894	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPE 1	
Ref Mon # 2 HOPE 2	
Ref Mon # 3 HOPEPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290011	Date Monumented 4/26/2001	Monumented By AHTD	County HEMPSTEAD	Route 29	Job Number: 030238
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	524,024.9365				
Easting (M)	253,803.3656				
Elevation (M)*	115.478				
Northing (SFT)	1,719,238.4792				
Easting (SFT)	832,686.5420				
Elevation (SFT)*	378.864				

Convergence Angle	0	53	0.4906868
Scale Factor	0.999928682		
Elevation Adjust. Factor	0.9999818781		
Combined Adjust. Factor	0.9999105614		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WOODEN GATE POST	127	7.30	24.0	290011A
MK # 2	WOODEN BRACE POST	71	1.40	4.6	183 22 42.32905
MK # 3	NONE				184 15 42.82375

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPE 1	
Ref Mon # 2 HOPE 2	
Ref Mon # 3 HOPEPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290011A	Date Monumented 4/26/2001	Monumented By AHTD	County HEMPSTEAD	Route 29	Job Number: 030238
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	523,105.4370	
Easting (M)	253,734.8431	
Elevation (M)*	111.266	
Northing (SFT)	1,716,221.7546	
Easting (SFT)	832,461.7311	
Elevation (SFT)*	365.045	

Convergence Angle	0	53	1.6726151
Scale Factor	0.999929345		
Elevation Adjust. Factor	0.9999825391		
Combined Adjust. Factor	0.9999118853		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	WOODEN CORNER POST	352	26.25	86.1	AZ Mark Station	290011
MK # 2	NONE				Geodetic Azimuth	3 22 41.155188
MK # 3	NONE				Grid Azimuth	4 15 42.823746

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPE 1	
Ref Mon # 2 HOPE 2	
Ref Mon # 3 HOPEPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290012	Date Monumented 2/12/2003	Monumented By AHTD	County HEMPSTEAD	Route 67	Job Number: 030152
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	516,392.8491	
Easting (M)	259,485.2540	
Elevation (M)*		
Northing (SFT)	1,694,198.8724	
Easting (SFT)	851,327.8708	
Elevation (SFT)*		

Convergence Angle	0	50	54.4417908
Scale Factor	0.999934730		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CONC RIGHT OF WAY MKR	55	21.50	70.5	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARTX	
Ref Mon # 2 HOPE	
Ref Mon # 3 CSAL	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 42 24.1183080
Longitude	93 30 57.3746940
Ellipsoid Height (M):	61.746
Geoid Height (M):	-26.819

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 174 AND HIGHWAY 67, EAST OF HOPE, GO NORTH ON HIGHWAY 67 2.4 MILES TO THE STATION ON THE LEFT. 13.80 METERS NORTH WEST OF THE CENTER OF THE HIGHWAY AND 1.60 METERS SOUTH EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "290012 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	290012A
Geodetic Azimuth	65 44 42
Grid Azimuth	66 35 36

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290012A	Date Monumented 2/12/2003	Monumented By AHTD	County HEMPSTEAD	Route 67	Job Number: 030152
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	516,571.8451	
Easting (M)	259,898.7580	
Elevation (M)*		
Northing (SFT)	1,694,786.1285	
Easting (SFT)	852,684.5085	
Elevation (SFT)*		

Convergence Angle	0	50	45.5119953
Scale Factor	0.999934565		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOOD BRACE POST	58	13.60	44.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARTX	
Ref Mon # 2 HOPE	
Ref Mon # 3 CSAL	

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 33 42 30.1261248

Longitude 93 30 41.4198180

Ellipsoid Height (M): 53.295

Geoid Height (M): -26.816

Location Description

TO REACH THE STATION FORM THE JUNCTION OF STATE HIGHWAY 174 AND HIGHWAY 67, EAST OF HOPE, GO NORTH ON HIGHWAY 67 2.7 MILES TO THE STATION ON THE RIGHT. 33.70 METERS SOUTH EAST OF THE CENTER OF THE HIGHWAY AND 0.50 METERS NORTH WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "290012A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290013	Date Monumented 7/30/2003	Monumented By AHTD	County HEMPSTEAD	Route 195	Job Number: R30076
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	541,961.2501	
Easting (M)	256,636.2440	
Elevation (M)*		
Northing (SFT)	1,778,084.5347	
Easting (SFT)	841,980.7439	
Elevation (SFT)*		

Convergence Angle	0	52	4.7821223
Scale Factor	0.999919913		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	1st POWER POLE WEST OF BRIDGE	74	25.60	84.0	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>AHTD LROC</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD HOPE C.O.R.S.</td> </tr> <tr> <td>Ref Mon # 3</td> <td>DQUA C.O.R.S.</td> </tr> </table>	Ref Mon # 1	AHTD LROC	Ref Mon # 2	AHTD HOPE C.O.R.S.	Ref Mon # 3	DQUA C.O.R.S.	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	AHTD LROC						
Ref Mon # 2	AHTD HOPE C.O.R.S.						
Ref Mon # 3	DQUA C.O.R.S.						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 56 12.5512584
Longitude	93 33 3.0518460
Ellipsoid Height (M):	55.757
Geoid Height (M):	-26.955

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 371 AND HIGHWAY 195, NORTHWEST OF PRESCOTT, GO NORTH ON HIGHWAY 195 3.75 MILES TO THE STATION ON THE LEFT, NORTH 6.60 METERS OF THE CENTERLINE AND SOUTH 6.5 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "290013 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	290013A
Geodetic Azimuth	271 25 54
Grid Azimuth	272 17 59

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290013A	Date Monumented 7/30/2003	Monumented By AHTD	County HEMPSTEAD	Route 195	Job Number: R30076
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	541,987.0951				
Easting (M)	255,992.6910				
Elevation (M)*					
Northing (SFT)	1,778,169.3278				
Easting (SFT)	839,869.3537				
Elevation (SFT)*					

Convergence Angle	0	52	18.8155305
Scale Factor	0.999919909		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	1st POWER POLE EAST OF MAILBOX 3408	77	30.40	99.7
MK # 2	MAILBOX 3408	262	36.40	119.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LROC	
Ref Mon # 2 AHTD HOPE C.O.R.S.	
Ref Mon # 3 DQUA C.O.R.S.	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 56 13.0728948
Longitude	93 33 28.1253528
Ellipsoid Height (M):	55.945
Geoid Height (M):	-26.960

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 371 AND HIGHWAY 195, NORTHWEST OF PRESCOTT, GO NORTH ON HIGHWAY 195 3.35 MILES TO THE STATION ON THE LEFT, NORTH 7.95 METERS OF THE CENTERLINE AND SOUTH 4.25 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "290013A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290014	Date Monumented 8/4/2003	Monumented By AHTD	County HEMPSTEAD	Route 195	Job Number: R30076
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	541,031.4191	
Easting (M)	253,783.9260	
Elevation (M)*		
Northing (SFT)	1,775,033.9142	
Easting (SFT)	832,622.7639	
Elevation (SFT)*		

Convergence Angle	0	53	6.6288792
Scale Factor	0.999920184		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	41	5.40	17.7
MK # 2	FENCE CORNER	117	2.10	6.9
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>AHTD LROC</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD HOPE C.O.R.S.</td> </tr> <tr> <td>Ref Mon # 3</td> <td>DQUA C.O.R.S.</td> </tr> </table>	Ref Mon # 1	AHTD LROC	Ref Mon # 2	AHTD HOPE C.O.R.S.	Ref Mon # 3	DQUA C.O.R.S.	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	AHTD LROC						
Ref Mon # 2	AHTD HOPE C.O.R.S.						
Ref Mon # 3	DQUA C.O.R.S.						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 55 40.9578996
Longitude	93 34 53.5535184
Ellipsoid Height (M):	89.705
Geoid Height (M):	-26.966

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 371 AND HIGHWAY 195, NORTHWEST OF PRESCOTT, GO NORTH ON HIGHWAY 195 1.55 MILES TO A GRAVEL COUNTY ROAD NUMBER 282, TURN LEFT ON COUNTY ROAD 282 (NORTH) AND GO 0.30 MILES TO A GRAVEL PRIVATE DRIVE NUMBER 162, TURN LEFT (WEST) AND GO 0.07 MILES TO THE STATION ON THE LEFT, SOUTH 9.80 METERS OF THE CENTERLINE AND NORTH 0.35 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "290014 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	290014
Geodetic Azimuth	203 29 54
Grid Azimuth	204 23 00

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290014A	Date Monumented 8/4/2003	Monumented By AHTD	County HEMPSTEAD	Route 195	Job Number: R30076
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	540,481.3950	
Easting (M)	253,534.6160	
Elevation (M)*		
Northing (SFT)	1,773,229.3768	
Easting (SFT)	831,804.8193	
Elevation (SFT)*		

Convergence Angle	0	53	11.8759841
Scale Factor	0.999920349		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	BIRD HOUSE POST	202	20.70	67.9	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LROC	
Ref Mon # 2 AHTD HOPE C.O.R.S.	
Ref Mon # 3 DQUA C.O.R.S.	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 55 22.9821780
Longitude	93 35 2.9285268
Ellipsoid Height (M):	88.838
Geoid Height (M):	-26.963

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 371 AND HIGHWAY 195, NORTHWEST OF PRESCOTT, GO NORTH ON HIGHWAY 195 1.35 MILES TO THE STATION ON THE LEFT, NORTH 8.35 METERS OF THE CENTERLINE AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "290014A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290015	Date Monumented 10/13/2003	Monumented By AHTD	County HEMPSTEAD	Route 67	Job Number: 030152, 030078
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	512,180.4272	
Easting (M)	254,349.1060	
Elevation (M)*	103.189	
Northing (SFT)	1,680,378.6182	
Easting (SFT)	834,477.0253	
Elevation (SFT)*	338.546	

Convergence Angle	0	52	44.6668927
Scale Factor	0.999938792		
Elevation Adjust. Factor	0.9999838065		
Combined Adjust. Factor	0.9999225995		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	30" CMP	286	11.58	38.0		
MK # 2	MAN HOLE	52	15.85	52.0		
MK # 3	FIRE HYDRANT	118	23.77	78.0		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARTX Ref Mon # 2 HOPE Ref Mon # 3 CSAL	3-Wire level Elevation ran by S5111 in July 06 in Job 030290/030330 from NGS U62/V62/W62/E64.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290015A	Date Monumented 10/13/2003	Monumented By AHTD	County HEMPSTEAD	Route 67	Job Number: 030152
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	512,693.9902	
Easting (M)	254,981.7920	
Elevation (M)*	99.887	
Northing (SFT)	1,682,063.5328	
Easting (SFT)	836,552.7626	
Elevation (SFT)*	327.712	

Convergence Angle	0	52	31.0926469
Scale Factor	0.999938272		
Elevation Adjust. Factor	0.9999843248		
Combined Adjust. Factor	0.9999225977		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	RIGHT OF WAY MARKER	21	67.00	219.8	
MK # 2	MAN HOLE	23	19.81	65.0	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARTX Ref Mon # 2 HOPE Ref Mon # 3 CSAL	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire level Elevation ran by S5111 in July 06 in Job 030290/030330 from NGS U62/V62/W62/E64.</td> </tr> </table>	Comments	3-Wire level Elevation ran by S5111 in July 06 in Job 030290/030330 from NGS U62/V62/W62/E64.
Comments			
3-Wire level Elevation ran by S5111 in July 06 in Job 030290/030330 from NGS U62/V62/W62/E64.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND HIGHWAY 73, EAST OF HOPE, GO NORTH ON HIGHWAY 67 0.50 MILES TO THE STATION ON THE LEFT, 13.4 METERS SOUTH WEST OF A DRIVE WAY AND 15.24 METERS NORTH WEST OF HIGHWAY 67. THE STATION MARK IS A STANDARD 64mm CAP STAMPED 290015A 2003" ON TOP OF A 1.22 METER IRO ROD DRIVEN FLUSH WITH THE GROUND.	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 40 21.8724708
Longitude	93 33 50.0608908
Ellipsoid Height (M):	72.940
Geoid Height (M):	-26.837

AZ Mark Station	290015
Geodetic Azimuth	230 03 28
Grid Azimuth	230 55 59

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290016	Date Monumented 5/23/2006	Monumented By AHTD	County Hempstead	Route NA	Job Number: 030330,030393
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	511,229.0252	
Easting (M)	252,533.1090	
Elevation (M)*	103.665	
Northing (SFT)	1,677,257.2268	
Easting (SFT)	828,519.0418	
Elevation (SFT)*	340.107	

Convergence Angle	0	53	23.7970640
Scale Factor	0.999939782		
Elevation Adjust. Factor	0.9999837319		
Combined Adjust. Factor	0.9999235149		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Water meter	179	10.40	34.1
MK # 2	Telephone junction box	155	15.35	50.4
MK # 3	Manhole	195	30.00	98.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Hope CORS ARP	Levels ran by crew s5113 on 07/08/2014 during job job C29002, elevation based on NGS BMs W 62-V 62.
Ref Mon # 2 Camden CORS ARP	
Ref Mon # 3 Garland	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290016A	Date Monumented 5/23/2006	Monumented By AHTD	County Hempstead	Route NA	Job Number: 030330,030393
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	511,789.2382	
Easting (M)	252,359.5470	
Elevation (M)*	106.429	
Northing (SFT)	1,679,095.1923	
Easting (SFT)	827,949.6138	
Elevation (SFT)*	349.176	

Convergence Angle	0	53	27.7564468
Scale Factor	0.999939215		
Elevation Adjust. Factor	0.9999832981		
Combined Adjust. Factor	0.9999225141		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Water meter	81	3.30	10.8
MK # 2	Gas meter	151	17.50	57.4
MK # 3	SE corner of brick library building	322	17.50	57.4

Area Reference Monuments (used for Processing) Ref Mon # 1 Hope CORS ARP Ref Mon # 2 Camden CORS ARP Ref Mon # 3 Garland	Comments Levels ran by crew s5113 on 07/08/2014 during job job C29002, elevation based on NGS BMs W 62-V 62.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290017	Date Monumented 6/25/2007	Monumented By AHTD	County HEMPSTEAD	Route 29	Job Number: 030348
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	492,461.0682	
Easting (M)	248,978.3070	
Elevation (M)*	86.224	
Northing (SFT)	1,615,682.6879	
Easting (SFT)	816,856.3289	
Elevation (SFT)*	282.887	

Convergence Angle	0	54	34.5416281
Scale Factor	0.999963390		
Elevation Adjust. Factor	0.9999864688		
Combined Adjust. Factor	0.9999498593		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 3</td> <td>TXMA</td> </tr> </table>	Ref Mon # 1	ARCM	Ref Mon # 2	ARHP	Ref Mon # 3	TXMA	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.</td> </tr> </table>	Comments	3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.
Ref Mon # 1	ARCM								
Ref Mon # 2	ARHP								
Ref Mon # 3	TXMA								
Comments									
3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.									

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 355E AND ARKANSAS STATE HIGHWAY 29, SOUTH OF HOPE, GO SOUTH ON HIGHWAY 29 1.0 MILES TO THE STATION MARK ON THE LEFT, 16.0 FEET NORTHEAST OF THE CENTERLINE AN ASPH FIELD DRIVE, SOUTHEAST OF THE CENTERLINE OF THE HIGHWAY 60.50 FEET AND NORTHWEST 19.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "290017 2007" ON TOP OF A 2.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE OLD ROAD BED.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290017A	Date Monumented 6/25/2007	Monumented By AHTD	County HEMPSTEAD	Route 29	Job Number: 030348
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	493,173.4217				
Easting (M)	249,448.3980				
Elevation (M)*	94.648				
Northing (SFT)	1,618,019.8010				
Easting (SFT)	818,398.6191				
Elevation (SFT)*	310.523				

Convergence Angle	0	54	24.5949838
Scale Factor	0.999962328		
Elevation Adjust. Factor	0.9999851469		
Combined Adjust. Factor	0.9999474755		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 355E AND ARKANSAS STATE HIGHWAY 29, SOUTH OF HOPE, GO SOUTH ON HIGHWAY 29 0.5 MILES TO THE STATION MARK ON THE LEFT, SOUTHEAST OF THE CENTERLINE OF THE HIGHWAY 67.3 FEET AND NORTHEAST 5.10 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "290017A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1					AZ Mark Station	290017
MK # 2					Geodetic Azimuth	212 30 52
MK # 3					Grid Azimuth	213 25 17

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARHP Ref Mon # 3 TXMA	3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290018A	Date Monumented 6/25/2007	Monumented By AHTD	County HEMPSTEAD	Route 29	Job Number: 030348
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	502,302.9562	
Easting (M)	250,437.0400	
Elevation (M)*	110.801	
Northing (SFT)	1,647,972.2821	
Easting (SFT)	821,642.1887	
Elevation (SFT)*	363.519	

Convergence Angle	0	54	6.2760168
Scale Factor	0.999949935		
Elevation Adjust. Factor	0.9999826120		
Combined Adjust. Factor	0.9999325479		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CABLE MARKER	271	2.23	7.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARHP Ref Mon # 3 TXMA	3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 34 42.3437016
Longitude	93 36 40.1251284
Ellipsoid Height (M):	83.965
Geoid Height (M):	-26.836

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 355W AND ARKANSAS STATE HIGHWAY 29, SOUTH OF HOPE, GO NORTH ON HIGHWAY 29 0.35 MILES TO THE STATION MARK ON THE LEFT, WEST OF THE CENTERLINE OF THE HIGHWAY 60.4 FEET AND EAST 9.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "290018A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290019	Date Monumented 6/25/2007	Monumented By AHTD	County HEMPSTEAD	Route 29	Job Number: 030348
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	508,289.3861				
Easting (M)	252,180.8840				
Elevation (M)*	107.086				
Northing (SFT)	1,667,612.7609				
Easting (SFT)	827,363.4503				
Elevation (SFT)*	351.330				

Convergence Angle	0	53	30.4541421
Scale Factor	0.999942903		
Elevation Adjust. Factor	0.9999831950		
Combined Adjust. Factor	0.9999260990		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	188	36.88	121.0
MK # 2	WATER METER	30	15.85	52.0
MK # 3	POWER POLE	98	2.23	7.3

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM Ref Mon # 2 ARHP Ref Mon # 3 TXMA	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3 WIRE LEVELS FROM SECOND ORDER NGS MARKS U 62 AND V 62 BY S5102 9/07.</td> </tr> </table>	Comments	3 WIRE LEVELS FROM SECOND ORDER NGS MARKS U 62 AND V 62 BY S5102 9/07.
Comments			
3 WIRE LEVELS FROM SECOND ORDER NGS MARKS U 62 AND V 62 BY S5102 9/07.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 355W AND ARKANSAS STATE HIGHWAY 29, SOUTH OF HOPE, GO NORTH ON HIGHWAY 29 4.1 MILES TO THE STATION MARK ON THE RIGHT, NORTH 74.0 FEET OF THE CENTERLIN OF A CONCRETE DRIVE, EAST OF THE CENTERLINE OF THE HIGHWAY 78.0 FEET, AND WEST 7.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "290019 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290019A	Date Monumented 6/25/2007	Monumented By AHTD	County HEMPSTEAD	Route 29	Job Number: 030348
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	507,727.3131	
Easting (M)	251,910.5860	
Elevation (M)*	113.863	
Northing (SFT)	1,665,768.6931	
Easting (SFT)	826,476.6476	
Elevation (SFT)*	373.564	

Convergence Angle	0	53	36.1334119
Scale Factor	0.999943527		
Elevation Adjust. Factor	0.9999821316		
Combined Adjust. Factor	0.9999256596		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	FENCE CORNER	207	22.37	73.4	290019
MK # 2	NORTH END OF AN 18" CMP	169	16.31	53.5	24 47 21
MK # 3					25 40 58

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	3 WIRE LEVELS FROM SECOND ORDER NGS MARKS U 62 AND V 62 BY S5102 9/07.
Ref Mon # 2 ARHP	
Ref Mon # 3 TXMA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290020	Date Monumented 6/25/2007	Monumented By AHTD	County HEMPSTEAD	Route 355	Job Number: 030348
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	494,821.3562	
Easting (M)	254,383.3220	
Elevation (M)*	96.971	
Northing (SFT)	1,623,426.3995	
Easting (SFT)	834,589.2823	
Elevation (SFT)*	318.147	

Convergence Angle	0	52	38.1490674
Scale Factor	0.999959834		
Elevation Adjust. Factor	0.9999847823		
Combined Adjust. Factor	0.9999446169		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	25	26.58	87.2
MK # 2	C 63 BM IN SOUTH END HEADWALL	169	19.51	64.0
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 3</td> <td>TXMA</td> </tr> </table>	Ref Mon # 1	ARCM	Ref Mon # 2	ARHP	Ref Mon # 3	TXMA	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.</td> </tr> </table>	Comments	3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.
Ref Mon # 1	ARCM								
Ref Mon # 2	ARHP								
Ref Mon # 3	TXMA								
Comments									
3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.									

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 30 41.5162980
Longitude	93 34 2.6686056
Ellipsoid Height (M):	70.206
Geoid Height (M):	-26.765

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 355E AND ARKANSAS STATE HIGHWAY 29, SOUTH OF HOPE, GO EAST ON HIGHWAY 355 2.9 MILES TO THE STATION MARK ON THE RIGHT, WEST OF THE CENTERLINE OF COUNTY ROAD 144S 24.6 FEET, SOUTH OF THE CENTERLINE OF THE HIGHWAY 36.7 FEET AND WEST 43.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "290020 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND IN THE OLD RAIL ROAD BED.

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290021	Date Monumented 4/20/2010	Monumented By AHTD	County HEMPSTEAD	Route 371	Job Number: 030387
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	543,740.1921	
Easting (M)	235,215.2670	
Elevation (M)*	116.486	
Northing (SFT)	1,783,920.9469	
Easting (SFT)	771,702.0885	
Elevation (SFT)*	382.172	

Convergence Angle	0	59	52.2645364
Scale Factor	0.999919557		
Elevation Adjust. Factor	0.9999817198		
Combined Adjust. Factor	0.9999012783		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	67	26.28	86.2	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHP Ref Mon # 3 OKHV	DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 ON 4/26/10 FROM RV 605 AND CKECKED BY GPS USING C 62.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290021A	Date Monumented 4/20/2010	Monumented By AHTD	County HEMPSTEAD	Route 371	Job Number: 030387
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	543,692.6781				
Easting (M)	235,779.8320				
Elevation (M)*	112.032				
Northing (SFT)	1,783,765.0614				
Easting (SFT)	773,554.3322				
Elevation (SFT)*	367.559				

Convergence Angle	0	59	39.9416660
Scale Factor	0.999919565		
Elevation Adjust. Factor	0.9999824188		
Combined Adjust. Factor	0.9999019852		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CABLE MARKER	149	14.63	48.0
MK # 2	CENTER OF FENCE GAP	167	12.19	40.0
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 3</td> <td>OKHV</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	ARHP	Ref Mon # 3	OKHV	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 ON 4/26/10 FROM RV 605 AND CKECKED BY GPS USING C 62.</td> </tr> </table>	Comments	DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 ON 4/26/10 FROM RV 605 AND CKECKED BY GPS USING C 62.
Ref Mon # 1	ARLR								
Ref Mon # 2	ARHP								
Ref Mon # 3	OKHV								
Comments									
DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 ON 4/26/10 FROM RV 605 AND CKECKED BY GPS USING C 62.									

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 56 57.7406904
Longitude	93 46 36.2859312
Ellipsoid Height (M):	84.948
Geoid Height (M):	-27.084

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 371 AND STATE HIGHWAY 278, EAST OF NASHVILLE, GO SOUTH ON 371 FOR 3.7 MILES TO THE STATION MARK ON THE RIGHT, 9.3 FEET WEST OF THE CENTERLINE OF A DIRT FIELD ROAD, SOUTH 27 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 38.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "290021A 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROIND.

AZ Mark Station	290021
Geodetic Azimuth	273 48 59
Grid Azimuth	274 48 39

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290022	Date Monumented 1/22/2014	Monumented By AHTD	County HEMPSTEAD	Route I 30	Job Number: BB0306
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	509,356.0574	0.0020			
Easting (M)	242,691.6454	0.0020			
Elevation (M)*	82.891				
Northing (SFT)	1,671,112.3317				
Easting (SFT)	796,230.8399				
Elevation (SFT)*	271.950				

Convergence Angle	0	56	56.8962145
Scale Factor	0.999941911		
Elevation Adjust. Factor	0.9999869919		
Combined Adjust. Factor	0.9999289037		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER OF HEADWALL	205	6.80	22.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP	Elevation established by 3rd Order Digital Levels from NGS 2nd Order BM's G 337 & J 337 by Crew S5112 in Jan./Feb. of 2014 for Job #BB0306. Elevations not yet published. Obtained Elevations from S5111 who ran the 1st Order line under the supervision of the NGS Advisor.
Ref Mon # 2 ARCM	
Ref Mon # 3 TXCR	

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND EXIT 18 OVERPASS, SOUTHEAST OF FULTON, GO EAST ON I 40 6.5 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 7.2 FEET FROM THE EDGE OF THE ASPHALT, WEST 55.5 FEET OF A FENCE AND NORTH 55.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 290022" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290022A	Date Monumented 1/22/2014	Monumented By AHTD	County HEMPSTEAD	Route I 30	Job Number: BB0306
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	509,597.5847 0.0020
Easting (M)	243,264.1603 0.0020
Elevation (M)*	86.124
Northing (SFT)	1,671,904.7425
Easting (SFT)	798,109.1659
Elevation (SFT)*	282.559

Convergence Angle	0 56 44.5494596
Scale Factor	0.999941643
Elevation Adjust. Factor	0.9999864845
Combined Adjust. Factor	0.9999281283

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP Ref Mon # 2 ARCM Ref Mon # 3 TXCR	Elevation established by 3rd Order Digital Levels from NGS 2nd Order BM's G 337 & J 337 by Crew S5112 in Jan./Feb. of 2014 for Job #BB0306. Elevations not yet published. Obtained Elevations from S5111 who ran the 1st Order line under the supervision of the NGS Advisor.

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND EXIT 18 OVERPASS, SOUTHEAST OF FULTON, GO EAST ON I 40 6.9 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 8.7 FEET FROM THE EDGE OF THE ASPHALT, AND NORTH 18.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 290022A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	290022
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290023	Date Monumented 1/22/2014	Monumented By AHTD	County HEMPSTEAD	Route I 30	Job Number: BB0306
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	510,774.6163	0.0030			
Easting (M)	246,007.8607	0.0030			
Elevation (M)*	84.669				
Northing (SFT)	1,675,766.3870				
Easting (SFT)	807,110.7896				
Elevation (SFT)*	277.784				

Convergence Angle	0	55	45.3771361
Scale Factor	0.999940357		
Elevation Adjust. Factor	0.9999867129		
Combined Adjust. Factor	0.9999270707		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER OF BRIDGE	196	2.44	8.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP	Elevation established by 3rd Order Digital Levels from NGS 2nd Order BM's G 337 & J 337 by Crew S5112 in Jan./Feb. of 2014 for Job #BB0306. Elevations not yet published. Obtained Elevations from S5111 who ran the 1st Order line under the supervision of the NGS Advisor.
Ref Mon # 2 ARCM	
Ref Mon # 3 TXCR	

Vertical Determined By: 3rd Order - Digital Levels	Elevation Datum: NAVD 88
Geoid Datum: Geoid 12A	Latitude 33 39 14.9925672
Longitude 93 39 37.1892132	Ellipsoid Height (M): 57.661 0.0101
Geoid Height (M): -27.008 0.0101	

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND EXIT 18 OVERPASS, SOUTHEAST OF FULTON, GO EAST ON I 40 8.8 MILES TO THE STATION MARK ON THE LEFT, NORTH 5.5 FEET FROM THE BACK OF THE CURB, AND NORTH 5.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 290023" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290023A	Date Monumented 1/22/2014	Monumented By AHTD	County HEMPSTEAD	Route I 30	Job Number: BB0306
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	511,083.4846 0.0030
Easting (M)	246,779.2808 0.0020
Elevation (M)*	84.632
Northing (SFT)	1,676,779.7324
Easting (SFT)	809,641.6904
Elevation (SFT)*	277.664

Convergence Angle	0 55 28.7297390
Scale Factor	0.999940025
Elevation Adjust. Factor	0.9999867186
Combined Adjust. Factor	0.9999267444

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	SOUTHEAST CORNER OF BRIDGE	260	4.24 13.9
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP	Elevation established by 3rd Order Digital Levels from NGS 2nd Order BM's G 337 & J 337 by Crew S5112 in Jan./Feb. of 2014 for Job #BB0306. Elevations not yet published. Obtained Elevations from S5111 who ran the 1st Order line under the supervision of the NGS Advisor.
Ref Mon # 2 ARCM	
Ref Mon # 3 TXCR	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	33 39 25.4218572
Longitude	93 39 7.4452896
Ellipsoid Height (M):	57.627 0.0103
Geoid Height (M):	-27.005 0.0103

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND EXIT 18 OVERPASS, SOUTHEAST OF FULTON, GO EAST ON I 40 9.3 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 4.4 FEET FROM THE EDGE OF THE ASPHALT, AND EAST 13.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 290023A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290024	Date Monumented 1/22/2014	Monumented By AHTD	County HEMPSTEAD	Route I 30	Job Number: BB0306
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	512,471.3034	0.0030			
Easting (M)	249,172.0324	0.0020			
Elevation (M)*	91.126				
Northing (SFT)	1,681,332.9346				
Easting (SFT)	817,491.9096				
Elevation (SFT)*	298.968				

Convergence Angle	0	54	37.2348825
Scale Factor	0.999938582		
Elevation Adjust. Factor	0.9999856996		
Combined Adjust. Factor	0.9999242825		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF BOX CULVERT	111	4.42	14.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP	Elevation established by 3rd Order Digital Levels from NGS 2nd Order BM's G 337 & J 337 by Crew S5112 in Jan./Feb. of 2014 for Job #BB0306. Elevations not yet published. Obtained Elevations from S5111 who ran the 1st Order line under the supervision of the NGS Advisor.
Ref Mon # 2 ARCM	
Ref Mon # 3 TXCR	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	33 40 11.7067512
Longitude	93 37 35.4393696
Ellipsoid Height (M):	64.131 0.0101
Geoid Height (M):	-26.994 0.0101

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND EXIT 18 OVERPASS, SOUTHEAST OF FULTON, GO EAST ON I 40 11.1 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 8.5 FEET FROM THE EDGE OF THE ASPHALT, AND NORTHWEST 12.7 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 290024" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290024A	Date Monumented 1/22/2014	Monumented By AHTD	County HEMPSTEAD	Route I 30	Job Number: BB0306, 3720_7
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	512,975.9615 0.0020
Easting (M)	249,769.0397 0.0020
Elevation (M)*	100.196

Northing (SFT)	1,682,988.6337	
Easting (SFT)	819,450.5911	
Elevation (SFT)*	328.725	

Convergence Angle	0	54	24.4386286
Scale Factor	0.999938074		
Elevation Adjust. Factor	0.9999842763		
Combined Adjust. Factor	0.9999223513		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND EXIT 18 OVERPASS, SOUTHEAST OF FULTON, GO EAST ON I 40 11.5 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 7.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 290024A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NORTHWEST CORNER OF BRIDGE	15	3.66	12.0	290024
MK # 2	END OF PARAPET WALL	317	2.44	8.0	
MK # 3					

Area Reference Monuments (used for Processing)		Comments Elevation established by 3rd Order Digital Levels from NGS 2nd Order BM's G 337 & J 337 by Crew S5112 in Jan./Feb. of 2014 for Job #BB0306. Elevations not yet published. Obtained Elevations from S5111 who ran the 1st Order line under the supervision of the NGS Advisor.
Ref Mon # 1	ARHP	
Ref Mon # 2	ARCM	
Ref Mon # 3	TXCR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290025	Date Monumented 5/19/2015	Monumented By AHTD	County HEMPSTEAD	Route I 40	Job Number: BB0305
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	507,961.7586	0.0020			
Easting (M)	238,306.4282	0.0030			
Elevation (M)*					
Northing (SFT)	1,666,537.8697				
Easting (SFT)	781,843.6732				
Elevation (SFT)*					

Convergence Angle	0	58	31.6138454
Scale Factor	0.999943513		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TXCR Ref Mon # 2 ARHP Ref Mon # 3 ARCM	

Location Description			
TO REACH THE MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 278 OVERPASS (EXIT 30), NORTH OF HOPE, GO WEST ON I 40 FOR 8.65 MILES TO THE MARK ON THE RIGHT, NORTH 7.5 FEET OF THE EDGE OF THE ASPHALT AND SOUTH 21 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 290025" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290025A	Date Monumented 5/19/2015	Monumented By AHTD	County HEMPSTEAD	Route I 40	Job Number: BB0305
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	508,036.9942	0.0030			
Easting (M)	238,892.6222	0.0030			
Elevation (M)*					
Northing (SFT)	1,666,784.7051				
Easting (SFT)	783,766.8780				
Elevation (SFT)*					

Convergence Angle	0	58	18.9132140
Scale Factor	0.999943419		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF DROP INLET	173	43.00	141.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TXCR Ref Mon # 2 ARHP Ref Mon # 3 ARCM	

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: GEOID12A

Latitude 33 37 42.3130080

Longitude 93 44 11.5123020

Ellipsoid Height (M): 62.290 0.0013

Geoid Height (M): -27.025 0.0013

Location Description

TO REACH THE MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 278 OVERPASS (EXIT 30), NORTH OF HOPE, GO WEST ON I 40 FOR 8.3 MILES TO THE MARK ON THE LEFT, SOUTH 18 FEET OF THE EDGE OF THE ASPHALT AND NORTH 38 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 290025A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290026	Date Monumented 5/19/2015	Monumented By AHTD	County HEMPSTEAD	Route I 40	Job Number: BB0305
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	507,215.7771	0.0030			
Easting (M)	234,115.9054	0.0030			
Elevation (M)*					
Northing (SFT)	1,664,090.4287				
Easting (SFT)	768,095.2663				
Elevation (SFT)*					

Convergence Angle	-1	0	2.3212095
Scale Factor	0.999944429		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	END OF GUARD RAIL	131	83.20	273.0	290026A
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TXCR	
Ref Mon # 2 ARHP	
Ref Mon # 3 ARCM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290026A	Date Monumented 5/19/2015	Monumented By AHTD	County HEMPSTEAD	Route I 40	Job Number: BB0305
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	507,290.8117	0.0030			
Easting (M)	234,559.3400	0.0030			
Elevation (M)*					
Northing (SFT)	1,664,336.6047				
Easting (SFT)	769,550.1013				
Elevation (SFT)*					

Convergence Angle	0	59	52.7219599
Scale Factor	0.999944335		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 67 OVERPASS (EXIT 18), EAST OF FULTON, GO EAST ON I 40 FOR 1.2 MILES TO THE MARK ON THE RIGHT, SOUTH 14.5 FEET OF THE EDGE OF THE ASPHALT. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 290026A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	GAS LINE VENT	129	79.50	260.8	
MK # 2	GAS LINE VENT	169	57.50	188.6	
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 TXCR</p> <p>Ref Mon # 2 ARHP</p> <p>Ref Mon # 3 ARCM</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 3 SEM 1968	Date Monumented 3/1/1968	Monumented By USC & GS	County BENTON	Route 16	Job Number: 090282
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	202,619.4879	
Easting (M)	177,136.8080	
Elevation (M)*	339.107	
Northing (SFT)	664,760.7699	
Easting (SFT)	581,156.3442	
Elevation (SFT)*	1,112.552	

Convergence Angle	-1	26	27.3933084
Scale Factor	0.999981940		
Elevation Adjust. Factor	0.9999467860		
Combined Adjust. Factor	0.9999287269		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	S/E END OF AN 18" CMP	338	31.33	102.8	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 OKTU Ref Mon # 2 WWED Ref Mon # 3 CTA1	ELEVATIONS BY 3 WIRE DIGITAL LEVELS FROM 3 SEM 1968 AND CHECKED USING CHSLD SQ ON THE N/W COR. OF BRIDGE OVER THE ILLINOIS RIVER. CREW S5112 ON 10-5-2010

AZ Mark Station	040103
Geodetic Azimuth	311 42 31
Grid Azimuth	313 08 58

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300001	Date Monumented 6/10/1999	Monumented By AHTD	County HOT SPRING	Route 67	Job Number: IAR605
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	588,650.3489	
Easting (M)	325,025.9000	
Elevation (M)*	84.954	
Northing (SFT)	1,931,263.6863	
Easting (SFT)	1,066,355.8069	
Elevation (SFT)*	278.720	

Convergence Angle	0	27	22.3428192
Scale Factor	0.999935047		
Elevation Adjust. Factor	0.9999866681		
Combined Adjust. Factor	0.9999217160		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RAILROAD MILE MARKER SIGN 389	252	21.11	69.3
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	K 124
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	AP 1970 STA A3 HOT

Comments
ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING FROM NGS BM A 79 BY CREW S5102.

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 21 53.4903048
Longitude	92 48 54.3758220
Ellipsoid Height (M):	58.572
Geoid Height (M):	-26.381

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 67, U.S. HIGHWAY 270 AND STATE HIGHWAY 9, LOCATED IN MALVERN, GO SOUTHWEST ON U.S. HIGHWAY 67 (PAGE STREET) FOR 0.40 KM (0.25 MI) TO THE JUNCTION OF PECAN STREET, TURN RIGHT NORTHWEST ON PECAN STREET FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF FRIST STREET, TURN RIGHT, NORTHEAST ON FRIST STREET FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.20 METERS NORTHWEST OF THE CENTER OF FRIST STREET, 11.32 METERS SOUTHEAST OF THE SOUTHEAST RAIL AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300001 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING FROM NGS BM A 79 BY CREW S5102.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300001A	Date Monumented 6/10/1999	Monumented By AHTD	County HOT SPRING	Route 67	Job Number: IAR605
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	588,359.4299	
Easting (M)	324,715.6240	
Elevation (M)*	83.529	
Northing (SFT)	1,930,309.2296	
Easting (SFT)	1,065,337.8431	
Elevation (SFT)*	274.045	

Convergence Angle	0	27	29.0883227
Scale Factor	0.999934782		
Elevation Adjust. Factor	0.9999868917		
Combined Adjust. Factor	0.9999216746		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 67, U.S. HIGHWAY 270 AND STATE HIGHWAY 9, LOCATED IN MALVERN, GO SOUTHWEST ON U.S. HIGHWAY 67 (PAGE STREET) FOR 0.40 KM (0.25 MI) TO THE JUNCTION OF PECAN STREET, TURN RIGHT NORTHWEST ON PECAN STREET FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF FIRST STREET AND THE STATION ON THE LEFT. THE STATION IS 17.50 METERS SOUTHWEST OF THE EXTENDED CENTER OF PECAN STREET, 12.90 METERS NORTHWEST OF THE CENTER OF FRIST STREET, 8.70 METERS SOUTHEAST OF THE SOUTHEAST RAIL AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300001A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 K 124</p> <p>Ref Mon # 2 </p> <p>Ref Mon # 3 </p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300002	Date Monumented 2/18/2000	Monumented By AHTD	County HOT SPRING	Route 70	Job Number: 060900, 061243, 061611
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	593,578.6697 0.0010
Easting (M)	324,486.7627 0.0010
Elevation (M)*	103.686

Northing (SFT)	1,947,432.6855	
Easting (SFT)	1,064,586.9873	
Elevation (SFT)*	340.176	

Convergence Angle	0	27	35.0185748
Scale Factor	0.999939803		
Elevation Adjust. Factor	0.9999837286		
Combined Adjust. Factor	0.9999235325		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)
Latitude	34 24 33.2944200
Longitude	92 49 17.0246532
Ellipsoid Height:	77.328
Grid Northing (Meters)	593,578.6669
Grid Easting (Meters)	324,486.7360

Location Description

 TO REACH THE STATION FROM THE JUNCTION OF I-30 AND U.S. HIGHWAY 270, LOCATED ON THE NORTH SIDE OF MALVERN, GO NORTH ON U.S. HIGHWAY 270 FOR 1.43 KM (0.89 MI) TO THE JUNCTION OF STATE HIGHWAY 51 AND THE STATION ON THE RIGHT. THE STATION IS 18.00 METERS EAST OF THE 270 WEST BOUND LANE, 17.70 METERS WEST OF THE CENTER OF A PAVED ROAD, 8.75 METERS SOUTH OF THE CENTER OF A PAVED ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300002 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 333.334 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	300002A
Geodetic Azimuth	201 24 28.27288
Grid Azimuth	201 52 03.27918

Area Reference Monuments (used for Processing) Ref Mon # 1 ARGS Ref Mon # 2 ARLR Ref Mon # 3 ARPB, ARRV	<div style="border: 1px solid black; padding: 5px;"> Comments Elev. Based on 3WR Levels from a single 2nd Order NGS Mark M 140 by S5105 in March of 2000 for Job #060900. *Note: Did not tie M 140 to any other NGS Marks for a check. SUPERCEDED GEOID HT. -26.390m, REF. MONUMENTS K 124, AHTD LR1, AP 1970 STA A3 HOT </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300002A	Date Monumented 11/18/2000	Monumented By AHTD	County HOT SPRING	Route 70	Job Number: 060900, 061243, 061611
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	593,269.3443 0.0010
Easting (M)	324,362.6161 0.0010
Elevation (M)*	104.469

Northing (SFT)	1,946,417.8404	
Easting (SFT)	1,064,179.6830	
Elevation (SFT)*	342.745	

Convergence Angle	0	27	37.6848862
Scale Factor	0.999939486		
Elevation Adjust. Factor	0.9999836057		
Combined Adjust. Factor	0.9999230927		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)
Latitude	34 24 23.2232364
Longitude	92 49 21.7884936
Ellipsoid Height:	78.118
Grid Northing (Meters)	593,269.3408
Grid Easting (Meters)	324,362.5910

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND U.S. HIGHWAY 270, LOCATED ON THE NORTH SIDE OF MALVERN, GO NORTH ON U.S. HIGHWAY 270 FOR 1.10 KM (0.68 MI) TO THE STATION ON THE RIGHT. THE STATION IS 47.50 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 270, 24.50 METERS SOUTH OF THE CENTER OF A PAEVED ROAD, 6.40 METERS SOUTHEAST OF THE CENTER OF A CONCRETE DITCH AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300002A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 333.334 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	300002
Geodetic Azimuth	21 24 25.580926
Grid Azimuth	21 52 03.279179

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS	Elev. Based on 3WR Levels from a single 2nd Order NGS Mark M 140 by S5105 in March of 2000 for Job #060900. *Note: Did not tie M 140 to any other NGS Marks for a check. SUPERCEDED GEOID HT. -26.391m, REF. MONUMENTS K 124, AHTD LR1, AP 1970 STA A3 HOT
Ref Mon # 2 ARLR	
Ref Mon # 3 ARPB, ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300003	Date Monumented 2/18/2000	Monumented By AHTD	County HOT SPRING	Route CR 75	Job Number: 060900
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Zone Arkansas South	Zone Code 302	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 593,951.1619		Latitude 34 24 46.4999724
Easting (M) 328,903.8530		Longitude 92 46 24.1717044
Elevation (M)* 94.799		Ellipsoid Height (M): 68.459
Northing (SFT) 1,948,654.7703		Geoid Height (M): -26.340
Easting (SFT) 1,079,078.7244		
Elevation (SFT)* 311.020		

Convergence Angle	0	25	58.2749735
Scale Factor	0.999940223		
Elevation Adjust. Factor	0.9999851232		
Combined Adjust. Factor	0.9999253471		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CROSSTIE GATE POST	65	6.22	20.4
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124	
Ref Mon # 2 AHTD LR 1	
Ref Mon # 3 AP 1970 STA A3 HOT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300003A	Date Monumented 2/18/2000	Monumented By AHTD	County HOT SPRING	Route CR 75	Job Number: 060900
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	594,162.3549	
Easting (M)	329,032.3320	
Elevation (M)*	89.615	
Northing (SFT)	1,949,347.6594	
Easting (SFT)	1,079,500.2426	
Elevation (SFT)*	294.012	

Convergence Angle	0	25	55.4940030
Scale Factor	0.999940444		
Elevation Adjust. Factor	0.9999859367		
Combined Adjust. Factor	0.9999263815		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND U.S. HIGHWAY 270, LOCATED ON THE NORTH SIDE OF MALVERN, GO SOUTH ON U.S. HIGHWAY 270 FOR 1.13 KM (0.70 MI) TO THE JUNCTION OF MILITARY ROAD ON THE LEFT, GO LEFT, EAST, ON MILITARY ROAD FOR 0.77 KM (0.48 MI) TO THE JUNCTION OF NIX ROAD STRAIGHT AHEAD, CONTINUE EAST ON NIX ROAD FOR 1.48 KM (0.92 MI) TO THE "T" JUNCTION OF SAND ROAD, GO LEFT, NORTH, ON SAND ROAD FOR 4.34 KM 2.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.20 METERS WEST OF THE CENTER OF SAND ROAD, 2.60 METERS EAST OF A FENCE LINE AND 2.35 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300003A 2000" SET ON TOP OF AN IRON ROD 0.61 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 247.219 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 K 124</p> <p>Ref Mon # 2 AHTD LR 1</p> <p>Ref Mon # 3 AP 1970 STA A3 HOT</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300004A	Date Monumented 2/18/2000	Monumented By AHTD	County HOT SPRING	Route 67	Job Number: 060900
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	588,556.9279	
Easting (M)	329,153.0980	
Elevation (M)*	102.151	
Northing (SFT)	1,930,957.1876	
Easting (SFT)	1,079,896.4557	
Elevation (SFT)*	335.140	

Convergence Angle	0	25	51.9227276
Scale Factor	0.999934991		
Elevation Adjust. Factor	0.9999839694		
Combined Adjust. Factor	0.9999189615		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	281	6.76	22.2
MK # 2	GUY POLE	257	15.03	49.3
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>K 124</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD LR 1</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AP 1970 STA A3 HOT</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	K 124	Ref Mon # 2	AHTD LR 1	Ref Mon # 3	AP 1970 STA A3 HOT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elev. Based on 3WR Levels from a single 2nd Order NGS Mark C 79 by S5105 in March of 2000 for Job #060900. *Note: Did not tie C 79 to any other NGS Marks for a check.</td> </tr> </table>	Comments	Elev. Based on 3WR Levels from a single 2nd Order NGS Mark C 79 by S5105 in March of 2000 for Job #060900. *Note: Did not tie C 79 to any other NGS Marks for a check.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	K 124										
Ref Mon # 2	AHTD LR 1										
Ref Mon # 3	AP 1970 STA A3 HOT										
Comments											
Elev. Based on 3WR Levels from a single 2nd Order NGS Mark C 79 by S5105 in March of 2000 for Job #060900. *Note: Did not tie C 79 to any other NGS Marks for a check.											

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 AND U.S. HIGHWAY 67, LOCATED ON THE SOUTHEAST SIDE OF MALVERN, GO WEST ON U.S. HIGHWAY 270 AND U.S. HIGHWAY 67 FOR 0.35 KM (0.22 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.40 METERS SOUTH OF THE CENTER OF THE U.S. HIGHWAYS 270 AND 67 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300004A 2000" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 406.551 METERS.</p>

AZ Mark Station	300004
Geodetic Azimuth	74 18 18.615088
Grid Azimuth	74 44 10.574323

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300005	Date Monumented 4/5/2001	Monumented By AHTD	County HOT SPRING	Route 30	Job Number: 060938, 061243, 061611
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	591,512.7637 0.0010
Easting (M)	322,875.5740 0.0010
Elevation (M)*	82.609

Northing (SFT)	1,940,654.7922	
Easting (SFT)	1,059,300.9457	
Elevation (SFT)*	271.026	

Convergence Angle	0	28	9.9583615
Scale Factor	0.999937722		
Elevation Adjust. Factor	0.9999870361		
Combined Adjust. Factor	0.9999247589		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	23	25.8246348
Longitude	92	50	19.4504100
Ellipsoid Height:	56.259		
Grid Northing (Meters)	591,512.7907		
Grid Easting (Meters)	322,875.5782		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE GUARD RAIL POST	305	6.65	21.8
MK # 2	CONCRETE GUARD RAIL POST	165	7.65	25.1
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 ARGS Ref Mon # 2 ARLR Ref Mon # 3 ARPB, ARRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> Elev. Based on 3WR Levels from AHTD GPS #300002A by S5101 in June of 2001 for Job #060938. AHTD GPS #300002A Elev. Based on 3WR Levels from a single 2nd Order NGS Mark M 140 by S5105 in March of 2000 for Job #060900. *Note: Did not tie M 140 to any other NGS Marks for a check. SUPERCEDED GEOID HT. -26.414m, REF. MONUMENTS K 124, AHTD LR1, AP 1970 STA A3 HOT </td> </tr> </table>	Comments	Elev. Based on 3WR Levels from AHTD GPS #300002A by S5101 in June of 2001 for Job #060938. AHTD GPS #300002A Elev. Based on 3WR Levels from a single 2nd Order NGS Mark M 140 by S5105 in March of 2000 for Job #060900. *Note: Did not tie M 140 to any other NGS Marks for a check. SUPERCEDED GEOID HT. -26.414m, REF. MONUMENTS K 124, AHTD LR1, AP 1970 STA A3 HOT
Comments			
Elev. Based on 3WR Levels from AHTD GPS #300002A by S5101 in June of 2001 for Job #060938. AHTD GPS #300002A Elev. Based on 3WR Levels from a single 2nd Order NGS Mark M 140 by S5105 in March of 2000 for Job #060900. *Note: Did not tie M 140 to any other NGS Marks for a check. SUPERCEDED GEOID HT. -26.414m, REF. MONUMENTS K 124, AHTD LR1, AP 1970 STA A3 HOT			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	Geoid 18
Latitude	34 23 25.8237600
Longitude	92 50 19.4505666
Ellipsoid Height (M):	56.125 0.0070
Geoid Height (M):	-26.514 0.0070

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND U.S. HIGHWAY 270, LOCATED ON THE NORTH SIDE OF MALVERN, GO SOUTHWEST ON I-30 FOR 1.26 KM (0.78 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN AT THE NORTH END OF A BRIDGE. THE STATION IS 18.35 METERS WEST OF THE CENTER OF THE EAST BOUND LANE OF I-30, 12.30 METERS EAST OF THE CENTER OF THE WEST BOUND LANE OF I-30 AND 0.50 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300005 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 581.809 METERS.</p>

AZ Mark Station	300005A
Geodetic Azimuth	55 13 30.722108
Grid Azimuth	55 41 40.728595

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300005A	Date Monumented 4/5/2001	Monumented By AHTD	County HOT SPRING	Route 30	Job Number: 060938, 061611
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	591,840.6522	0.0010			
Easting (M)	323,356.1517	0.0010			
Elevation (M)*	84.560				

Northing (SFT)	1,941,730.5398				
Easting (SFT)	1,060,877.6410				
Elevation (SFT)*	277.428				

Convergence Angle	0	27	59.4868585		
Scale Factor	0.999938047				
Elevation Adjust. Factor	0.9999867299				
Combined Adjust. Factor	0.9999247777				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (1997)				
Latitude	34	23	36.5933148		
Longitude	92	50	0.7412640		
Ellipsoid Height:	58.200				
Grid Northing (Meters)	591,840.6792				
Grid Easting (Meters)	323,356.1483				

Location Description					
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND U.S. HIGHWAY 270, LOCATED ON THE NORTH SIDE OF MALVERN, GO SOUTHWEST ON I-30 FOR 0.69 KM (0.43 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS EAST 13.30 METERS WEST OF THE CENTER OF I-30 EAST BOUND LANE, 12.25 METERS EAST OF THE CENTER OF I-30 WEST BOUND LANE AND 0.50 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300005A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 581.809 METERS.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARGS</p> <p>Ref Mon # 2 ARLR</p> <p>Ref Mon # 3 ARPB, ARRV</p>	<p style="text-align: center;">Comments</p> <p>Elev. Based on 3WR Levels from AHTD GPS #300002A by S5101 in June of 2001 for Job #060938. AHTD GPS #300002A Elev. Based on 3WR Levels from a single 2nd Order NGS Mark M 140 by S5105 in March of 2000 for Job #060900. *Note: Did not tie M 140 to any other NGS Marks for a check.</p> <p>SUPERCEDED GEOID HT. -26.406m, REF. MONUMENTS K 124, AHTD LR1, AP 1970 STA A3 HOT</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300006	Date Monumented 1/9/2003	Monumented By AHTD	County HOT SPRING	Route 67	Job Number: 061084
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	574,356.3669	
Easting (M)	313,888.4140	
Elevation (M)*		
Northing (SFT)	1,884,367.5137	
Easting (SFT)	1,029,815.5716	
Elevation (SFT)*		

Convergence Angle	0	31	23.4429256
Scale Factor	0.999924583		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	PIPE GATE POST	358	17.00	55.8		
MK # 2	PIPE GATE POST	25	21.10	69.2		
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HOPE 1	
Ref Mon # 2 AHTD MON 1	
Ref Mon # 3 RUSSPORT, LROC	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 14 6.4947264
Longitude	92 56 5.1496620
Ellipsoid Height (M):	40.298
Geoid Height (M):	-26.602

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 51 AND U.S. HIGHWAY 67 LOCATED IN DONALDSON, GO SOUTHWEST ON U.S. HIGHWAY 67 FOR 0.51 MILES TO THE STATION ON THE RIGHT. THE STATION IS 9.20 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 67, 7.80 METERS WEST OF A GRAVEL DRIVE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "300006 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300006A	Date Monumented 1/9/2003	Monumented By AHTD	County HOT SPRING	Route 67	Job Number: 061084
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	574,282.1129	
Easting (M)	313,357.7590	
Elevation (M)*		
Northing (SFT)	1,884,123.8987	
Easting (SFT)	1,028,074.5810	
Elevation (SFT)*		

Convergence Angle	0	31	35.0339026
Scale Factor	0.999924540		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	170	10.80	35.4	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HOPE 1	
Ref Mon # 2 AHTD MON 1	
Ref Mon # 3 RUSSPORT, LROC	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 14 3.9270660
Longitude	92 56 25.8592740
Ellipsoid Height (M):	40.154
Geoid Height (M):	-26.610

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 51 AND U.S. HIGHWAY 67 LOCATED IN DONALDSON, GO SOUTHWEST ON U.S. HIGHWAY 67 FOR 0.82 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.20 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 67 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "300006A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	300006
Geodetic Azimuth	81 30 29
Grid Azimuth	82 02 04

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300007	Date Monumented 8/18/2011	Monumented By AHTD	County HOT SPRING	Route 7	Job Number: 061309,060432,061440
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	591,569.5307 0.0000
Easting (M)	296,920.8883 0.0000
Elevation (M)*	164.507

Northing (SFT)	1,940,841.0353	
Easting (SFT)	974,147.9477	
Elevation (SFT)*	539.719	

Convergence Angle	0 37	38.6539884
Scale Factor		0.999937535
Elevation Adjust. Factor		0.9999741842
Combined Adjust. Factor		0.9999117208

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 290 , SOUTH OF HOT SPRINGS, GO SOUTH ON HIGHWAY 7 2.65 MILES TO THE MARK ON THE RIGHT, NORTHWEST OF THE CENTERLINE OF THE HIGHWAY 65.4 FEET. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "300007 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	170	12.04	39.5
MK # 2	CENTER OF PIPE GATE	30	23.62	77.5
MK # 3	4" PVC PIPE IN FENCE	240	9.54	31.3

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ELEV. ESTABLISHED BY B&F ENGINEERING IN NOV. OF 2011 BY DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139. ALSO TIED LOOP TO 3RD ORDER NGS MARK V 139 RESET AS CHECK BUT DID NOT CONSTRAIN (MISSED V 139 RESET BY +0.018'). </td> </tr> </table>	Comments	ELEV. ESTABLISHED BY B&F ENGINEERING IN NOV. OF 2011 BY DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139. ALSO TIED LOOP TO 3RD ORDER NGS MARK V 139 RESET AS CHECK BUT DID NOT CONSTRAIN (MISSED V 139 RESET BY +0.018').
Comments			
ELEV. ESTABLISHED BY B&F ENGINEERING IN NOV. OF 2011 BY DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139. ALSO TIED LOOP TO 3RD ORDER NGS MARK V 139 RESET AS CHECK BUT DID NOT CONSTRAIN (MISSED V 139 RESET BY +0.018').			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300008	Date Monumented 9/29/2014	Monumented By AHTD	County Hot Spring	Route 7	Job Number: 061440
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	590,323.6176	0.0020
Easting (M)	293,348.0294	0.0020
Elevation (M)*	201.514	

Northing (SFT)	1,936,753.4021	
Easting (SFT)	962,425.9931	
Elevation (SFT)*	661.135	

Convergence Angle	0 38	56.6260954
Scale Factor	0.999936308	
Elevation Adjust. Factor	0.9999683768	
Combined Adjust. Factor	0.9999046868	

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments
ELEV. ESTABLISHED BY B&F ENGINEERING IN FALL OF 2014 USING DIGITAL LEVELS. THEY HELD FIXED NGS 3RD ORDER BM V 139 RESET ALONG W/ELEVATIONS FROM JOB # 060432 TBM # 918 & AHTD GPS #S 260030 & 300007 WHICH WERE BASED ON DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139.

Location Description	
FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 290E, SOUTH OF HOT SPRINGS, GO SOUTH ON HIGHWAY 7 FOR 5.1 MILES TO THE MARK ON THE RIGHT, NORTH 57 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 27 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300008" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	300008A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300008A	Date Monumented 9/29/2014	Monumented By AHTD	County Hot Spring	Route 7	Job Number: 061440
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	590,274.8146	0.0020	
Easting (M)	292,687.5895	0.0020	
Elevation (M)*	223.309		
Northing (SFT)	1,936,593.2876		
Easting (SFT)	960,259.1999		
Elevation (SFT)*	732.641		

Convergence Angle	0	39	11.0821643
Scale Factor	0.999936255		
Elevation Adjust. Factor	0.9999649567		
Combined Adjust. Factor	0.9999012140		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 290E, SOUTH OF HOT SPRINGS, GO SOUTH ON HIGHWAY 7 FOR 5.5 MILES TO THE MARK ON THE RIGHT, NORTH 22.7 FEET OF THE EDGE OF THE PAVEMENT AND SOUTH 20.1 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300008A" ON TOP OF A 3 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARLR</p> <p>Ref Mon # 2 ARHP</p> <p>Ref Mon # 3 ARCM</p>	<p style="text-align: center;">Comments</p> <p>ELEV. ESTABLISHED BY B&F ENGINEERING IN FALL OF 2014 USING DIGITAL LEVELS. THEY HELD FIXED NGS 3RD ORDER BM V 139 RESET ALONG W/ELEVATIONS FROM JOB # 060432 TBM # 918 & AHTD GPS #S 260030 & 300007 WHICH WERE BASED ON DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300009	Date Monumented 9/29/2014	Monumented By AHTD	County Hot Spring	Route 7	Job Number: 061440, 012275
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	585,817.6046	0.0020			
Easting (M)	291,495.6216	0.0020			
Elevation (M)*					
Northing (SFT)	1,921,969.9244				
Easting (SFT)	956,348.5519				
Elevation (SFT)*					

Convergence Angle	0	39	36.0695533		
Scale Factor	0.999932311				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 290E, SOUTH OF HOT SPRINGS, GO SOUTH ON HIGHWAY 7 FOR 9.7 MILES TO THE MARK ON THE LEFT, EAST 23 FEET OF THE CENTERLINE OF THE HIGHWAY AND 250 FEET NORTH OF THE CENTERLINE OF TOMAHAWK LANE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300009" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHP Ref Mon # 3 ARCM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300009A	Date Monumented 9/29/2014	Monumented By AHTD	County Hot Spring	Route 7	Job Number: 061440, 012275
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	585,327.6188	0.0030			
Easting (M)	291,778.0604	0.0030			
Elevation (M)*					
Northing (SFT)	1,920,362.3627				
Easting (SFT)	957,275.1865				
Elevation (SFT)*					

Convergence Angle	0	39	29.7618786
Scale Factor	0.999931911		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 290E, SOUTH OF HOT SPRINGS, GO SOUTH ON HIGHWAY 7 FOR 10 MILES TO THE MARK ON THE RIGHT, WEST 24.2 FEET OF THE CENTERLINE OF THE HIGHWAY AND EAST 15 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300009A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHP Ref Mon # 3 ARCM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300010	Date Monumented 9/29/2014	Monumented By AHTD	County Hot Spring	Route 7	Job Number: 061440, 012275
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	581,822.6576	0.0020			
Easting (M)	292,796.3929	0.0020			
Elevation (M)*	157.399				
Northing (SFT)	1,908,863.1691				
Easting (SFT)	960,616.1657				
Elevation (SFT)*	516.401				

Convergence Angle	0	39	6.5920362
Scale Factor	0.999929215		
Elevation Adjust. Factor	0.9999752995		
Combined Adjust. Factor	0.9999045163		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	319	98.40	322.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	ELEV. ESTABLISHED BY B&F ENGINEERING IN FALL OF 2014 USING DIGITAL LEVELS FOR JOB #061440. THEY HELD FIXED NGS 3RD ORDER BM A 151 RESET & NGS 2ND ORDER BM Y 140.
Ref Mon # 2 ARHP	
Ref Mon # 3 ARCM	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	34 18 1.7893656
Longitude	93 9 52.6587156
Ellipsoid Height (M):	130.308 0.0050
Geoid Height (M):	-27.087 0.0050

Location Description
FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 84, IN BISMARCK, GO SOUTH ON HIGHWAY 7 FOR 1.15 MILES TO THE MARK ON THE RIGHT, WEST 28.3 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300010A	Date Monumented 9/29/2014	Monumented By AHTD	County Hot Spring	Route 7	Job Number: 061440, 012275
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	581,155.9433 0.0020
Easting (M)	293,008.1166 0.0020
Elevation (M)*	148.821
Northing (SFT)	1,906,675.7906
Easting (SFT)	961,310.7959
Elevation (SFT)*	488.258

Convergence Angle	0 39 1.7923086
Scale Factor	0.999928737
Elevation Adjust. Factor	0.9999766456
Combined Adjust. Factor	0.9999053843

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
<p>FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 84, IN BISMARK, GO SOUTH ON HIGHWAY 7 FOR 1.6 MILES TO THE MARK ON THE LEFT, EAST 43.2 FEET OF THE CENTERLINE OF THE HIGHWAY AND 39 FEET WEST OF THE CENTERLINE OF TUPELO TRAIL. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300010A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	COMBINATION POLE WITH GUY	281	14.00	45.9	300010
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)		Comments ELEV. ESTABLISHED BY B&F ENGINEERING IN FALL OF 2014 USING DIGITAL LEVELS FOR JOB #061440. THEY HELD FIXED NGS 3RD ORDER BM A 151 RESET & NGS 2ND ORDER BM Y 140.
Ref Mon # 1	ARLR	
Ref Mon # 2	ARHP	
Ref Mon # 3	ARCM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300011	Date Monumented 9/30/2014	Monumented By AHTD	County Hot Spring	Route 7	Job Number: 061440, 012275
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	578,245.1693 0.0020
Easting (M)	294,661.6804 0.0020
Elevation (M)*	141.574

Northing (SFT)	1,897,126.0263		
Easting (SFT)	966,735.8631		
Elevation (SFT)*	464.479		

Convergence Angle	0	38	24.8909625
Scale Factor	0.999926781		
Elevation Adjust. Factor	0.9999777830		
Combined Adjust. Factor	0.9999045656		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 84, IN BISMARK, GO SOUTH ON HIGHWAY 7 FOR 3.9 MILES TO THE MARK ON THE RIGHT, SOUTHWEST 27.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTHWEST 68 FEET OF THE CENTERLINE OF CADDO DRIVE AND EAST 45.5 OF THE SOUTHEAST CORNER OF A ONE STORY WOOD FRAME HOUSE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARLR</p> <p>Ref Mon # 2 ARHP</p> <p>Ref Mon # 3 ARCM</p>	<p style="text-align: center;">Comments</p> <p>ELEV. ESTABLISHED BY B&F ENGINEERING IN FALL OF 2014 USING DIGITAL LEVELS FOR JOB #061440. THEY HELD FIXED NGS 3RD ORDER BM A 151 RESET & NGS 2ND ORDER BM Y 140.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300011A	Date Monumented 9/30/2014	Monumented By AHTD	County Hot Spring	Route 7	Job Number: 061440, 012275
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	577,953.8205 0.0030
Easting (M)	295,169.8235 0.0020
Elevation (M)*	146.543

Northing (SFT)	1,896,170.1594	
Easting (SFT)	968,402.9959	
Elevation (SFT)*	480.782	

Convergence Angle	0	38	13.7023966
Scale Factor	0.999926599		
Elevation Adjust. Factor	0.9999770032		
Combined Adjust. Factor	0.9999036039		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	294	118.00	387.1
MK # 2				
MK # 3				

AZ Mark Station	300011
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	ELEV. ESTABLISHED BY B&F ENGINEERING IN FALL OF 2014 USING DIGITAL LEVELS FOR JOB #061440. THEY HELD FIXED NGS 3RD ORDER BM A 151 RESET & NGS 2ND ORDER BM Y 140.
Ref Mon # 2 ARHP	
Ref Mon # 3 ARCM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300012	Date Monumented 9/30/2014	Monumented By AHTD	County Hot Spring	Route 7	Job Number: 061440
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	575,967.3040	0.0020			
Easting (M)	297,278.6193	0.0020			
Elevation (M)*					
Northing (SFT)	1,889,652.7299				
Easting (SFT)	975,321.6035				
Elevation (SFT)*					

Convergence Angle	0	37	27.0917659		
Scale Factor	0.999925402				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CENTER OF EAST END OF HEADWALL	289	73.00	239.5	AZ Mark Station 300012A
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARCM</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	ARHP	Ref Mon # 3	ARCM	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARLR						
Ref Mon # 2	ARHP						
Ref Mon # 3	ARCM						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300012A	Date Monumented 9/30/2014	Monumented By AHTD	County Hot Spring	Route 7	Job Number: 061440
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	575,967.5423	0.0020			
Easting (M)	296,579.2718	0.0020			
Elevation (M)*					
Northing (SFT)	1,889,653.5117				
Easting (SFT)	973,027.1609				
Elevation (SFT)*					

Convergence Angle	0	37	42.3892474
Scale Factor	0.999925398		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	
Ref Mon # 2 ARHP	
Ref Mon # 3 ARCM	

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	Geoid 12A
Latitude	34 14 53.1390912
Longitude	93 7 22.2134952
Ellipsoid Height (M):	111.354 0.0050
Geoid Height (M):	-26.957 0.0050

Location Description
<p>FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 84, IN BISMARK, GO SOUTH ON HIGHWAY 7 FOR 6.3 MILES AND THEN RIGHT 0.4 MILES ON EDGEWOOD CADDO DRIVE TO THE MARK ON THE LEFT, SOUTH 19.3 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.75 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300012A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300013	Date Monumented 2/26/2015	Monumented By AHTD	County HOT SPRING	Route I 40	Job Number: 061450, 061460
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	587,157.6164	0.0020			
Easting (M)	317,874.9673	0.0020			
Elevation (M)*					
Northing (SFT)	1,926,366.2798				
Easting (SFT)	1,042,894.7886				
Elevation (SFT)*					

Convergence Angle	0	29	58.6946185
Scale Factor	0.999933671		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NW CORNER REST ROOM BLDGING	94	190.00	623.4
MK # 2	ABOVE GROUND WATER SPIGOT	172	115.00	377.3
MK # 3	LIGHT POLE	11	101.00	331.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARLR	GPS DERIVED ELEV. FROM CONSTRAINING ORTHOMETRIC HEIGHTS ON CORS ARCM & ARHP ALONG W/NGS 2ND ORDER BM A 81 IN THE FINAL STATIC NETWORK ADJUSTMENT TO AVOID RUNNING AN UNNECESSARY LONG LEVEL LOOP TO THE JOB.
Ref Mon # 2: ARHP	
Ref Mon # 3: ARCM	

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 84 OVERPASS (EXIT 97) AND INTERSTATE 40, NORTHWEST OF MALVERN, GO WEST ON I 40 3.6 MILES TO THE REST AREA AND ENTER REST AREA ON LEFT AND CONTINUE IN THE TRUCK LANE NEXT TO THE GUARD RAIL TO THE MARK ON THE LEFT IN A GRASSEY MEDIUM, 2.0 FEET NORTHWEST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 300013" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	300013A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300013A	Date Monumented 2/26/2015	Monumented By AHTD	County HOT SPRING	Route I 40	Job Number: 061450, 061460
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	586,880.0869 0.0020
Easting (M)	317,490.3412 0.0020
Elevation (M)*	

Northing (SFT)	1,925,455.7518	
Easting (SFT)	1,041,632.8944	
Elevation (SFT)*		

Convergence Angle	0	30	7.0649827
Scale Factor	0.999933429		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 84 OVERPASS (EXIT 97) AND INTERSTATE 40, NORTHWEST OF MALVERN, GO WEST ON I 40 3.9 MILES TO THE MARK ON THE RIGHT, LOCATED AT THE NORTHEAST CORNER OF THE OVERPASS, 2.7 FEET NORTHEAST OF A WITNESS POST, NORTHEAST OF THE CENTERLINE OF COUNTY ROAD 1586 (GRIGSBY FORD ROAD). THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 300013A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER OF OVERPASS	185	8.00	26.2
MK # 2	NORTH END OF PARAPET WALL	309	14.10	46.3
MK # 3				

AZ Mark Station	300013
Geodetic Azimuth	
Grid Azimuth	

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARLR</p> <p>Ref Mon # 2 ARHP</p> <p>Ref Mon # 3 ARCM</p>	<p style="text-align: center; margin: 0;">Comments</p> <p>GPS DERIVED ELEV. FROM CONSTRAINING ORTHOMETRIC HEIGHTS ON CORS ARCM & ARHP ALONG W/NGS 2ND ORDER BM A 81 IN THE FINAL STATIC NETWORK ADJUSTMENT TO AVOID RUNNING AN UNNECESSARY LONG LEVEL LOOP TO THE JOB.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300014	Date Monumented 3/15/2016	Monumented By AHTD	County HOT SPRING	Route 171	Job Number: 061456
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	593,865.7551	0.0020			
Easting (M)	316,528.7644	0.0020			
Elevation (M)*					
Northing (SFT)	1,948,374.5649				
Easting (SFT)	1,038,478.1212				
Elevation (SFT)*					

Convergence Angle	0	30	29.4805867		
Scale Factor	0.999940030				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 171 AND STATE HIGHWAY 290, NORTHWEST OF MALVERN, GO SOUTH ON HIGHWAY 171 3.3 MILES TO THE MARK ON THE LEFT, NORTH 17.6 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "300014 2016" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	WESTERN MOST GATE POST		313	13.59	44.6
MK # 2	TELEPHONE POLE		33	15.54	51.0
MK # 3	CENTER OF NORTH HEADWALL		86	32.61	107.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARLR</p> <p>Ref Mon # 2 ARHP</p> <p>Ref Mon # 3 ARPB</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300014A	Date Monumented 3/15/2016	Monumented By AHTD	County HOT SPRING	Route 171	Job Number: 061456
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	593,879.9170	0.0020			
Easting (M)	315,970.5857	0.0020			
Elevation (M)*					
Northing (SFT)	1,948,421.0277				
Easting (SFT)	1,036,646.8299				
Elevation (SFT)*					

Convergence Angle	0	30	41.7165893		
Scale Factor	0.999940039				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 171 AND STATE HIGHWAY 290, NORTHWEST OF MALVERN, GO SOUTH ON HIGHWAY 171 2.95 MILES TO THE MARK ON THE LEFT, NORTH 20.3 FEET OF THE CENTERLINE OF THE HIGHWAY AND IN LINE WITH THE CENTERLINE EXTENDED NORTH OF HILLTOP ROAD. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "300014 2016" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE POLE WITH GUY	38	8.08	26.5	
MK # 2	FIRE HYDRANT	53	0.97	3.2	
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARLR</p> <p>Ref Mon # 2 ARHP</p> <p>Ref Mon # 3 ARPB</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300015	Date Monumented 12/14/2020	Monumented By ARDOT	County HOT SPRING	Route 84	Job Number: 06X174
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	590,104.2008	0.0030			
Easting (M)	321,452.5390	0.0030			
Elevation (M)*					
Northing (SFT)	1,936,033.5321				
Easting (SFT)	1,054,632.2050				
Elevation (SFT)*					

Convergence Angle	0	28	40.8811173
Scale Factor	0.999936361		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIBER OPTIC MKR	172	24.05	78.9
MK # 2	AHTD SEWER MKR	164	21.43	70.3
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS Ref Mon # 2 ARLR Ref Mon # 3 ARR V	

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 34 22 39.7283664

Longitude 92 51 14.7002904

Ellipsoid Height (M): 59.860 0.0130

Geoid Height (M): -26.540 0.0130

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 84 AND STATE HIGHWAY 171, WEST OF ROCKPORT, GO WEST ON STATE HIGHWAY 84 0.7 MILES TO THE MARK ON THE RIGHT, NORTHWEST 32,7' OF THE C/L OF THE HIGHWAY AND 35.4' NORTHEAST OF A DIRT TRAIL. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "300015 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300015A	Date Monumented 12/14/2020	Monumented By ARDOT	County HOT SPRING	Route 84	Job Number: 06X174
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	589,698.9295	0.0030			
Easting (M)	321,156.9593	0.0030			
Elevation (M)*					
Northing (SFT)	1,934,703.9045				
Easting (SFT)	1,053,662.4573				
Elevation (SFT)*					

Convergence Angle	0	28	47.2822605
Scale Factor	0.999935980		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	COMBINATION POLE	42	26.12	85.7	300015
MK # 2	BRACE POST	206	13.23	43.4	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCS	
Ref Mon # 2 ARLR	
Ref Mon # 3 ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 310001	Date Monumented 4/2/1996	Monumented By AHTD	County HEMPSTEAD	Route 73	Job Number: 30056
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Zone Arkansas South	Zone Code 302	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 522,578.3261		Latitude 33 45 28.1552832
Easting (M) 228,213.0940		Longitude 93 51 16.0469100
Elevation (M)* 116.176		Ellipsoid Height (M): 88.526
Northing (SFT) 1,714,492.3915		Geoid Height (M): -27.650
Easting (SFT) 748,729.1259		
Elevation (SFT)* 381.154		

Convergence Angle -1 2 16.5212804	Scale Factor 0.999930055
Elevation Adjust. Factor 0.9999817685	Combined Adjust. Factor 0.9999118248

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
TO REACH THE STATION FROM THE POST OFFICE IN THE SMALL TOWN OF COLUMBUS ABOUT 25KM. NORTHWEST OF HOPE, GO SOUTHWESTERLY ON HWY-73 FOR 3.77 KM. (2.35 MI.) TO THE STATION ON THE LEFT. 11.20 METERS SOUTHEAST OF THE CENTER OF HWY-73 AND 1.30 METERS NORTHWEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "310001 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks			
	Description	Azimuth	Distance
			Meters Feet
MK # 1	POWER POLE	232	31.30 102.7
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	Cross Reference Job: 30088
Ref Mon # 2 X 303 BM	
Ref Mon # 3 PATE 1941	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 310001A	Date Monumented 4/2/1996	Monumented By AHTD	County HEMPSTEAD	Route 73	Job Number: 30056
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	522,888.6661	
Easting (M)	228,708.8780	
Elevation (M)*	120.485	
Northing (SFT)	1,715,510.5654	
Easting (SFT)	750,355.7106	
Elevation (SFT)*	395.291	

Convergence Angle	-1	2	5.8617955
Scale Factor	0.999929815		
Elevation Adjust. Factor	0.9999810923		
Combined Adjust. Factor	0.9999109087		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER AND GATE POST	159	1.75	5.7
MK # 2	FENCE CORNER AND GATE POST	215	5.55	18.2
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT Ref Mon # 2 X 303 BM Ref Mon # 3 PATE 1941	Cross Reference Job: 30088

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 45 38.5179444

Longitude 93 50 57.0015960

Ellipsoid Height (M): 92.835

Geoid Height (M): -27.650

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN THE SMALL TOWN OF COLUMBUS ABOUT 25KM. NORTHWEST OF HOPE, GO SOUTHWESTERLY ON HWY-73 FOR 3.21 KM. (2.00 MI.) TO THE STATION ON THE LEFT. 11.75 METERS SOUTHEAST OF THE CENTER OF HWY-73, 3.0 METERS NORTHEAST OF THE CENTER OF A FIELD ENTRANCE AND 1.50 METERS NORTHWEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "310001A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 310002	Date Monumented 4/2/1996	Monumented By AHTD	County HEMPSTEAD	Route 355	Job Number: 30056
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	522,525.6411	
Easting (M)	223,666.9920	
Elevation (M)*	116.352	
Northing (SFT)	1,714,319.5408	
Easting (SFT)	733,814.1229	
Elevation (SFT)*	381.732	

Convergence Angle	-1	3	55.3593280
Scale Factor	0.999930158		
Elevation Adjust. Factor	0.9999817409		
Combined Adjust. Factor	0.9999119002		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	168	25.82	84.7
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	Cross Reference Job: 30088 ELEVATION ON THIS STATION WAS ARRIVED AT USING SARATOGA AZ.
Ref Mon # 2 X 303 BM	
Ref Mon # 3 PATE 1941	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 310003	Date Monumented 8/22/2001	Monumented By AHTD	County HOWARD	Route 355	Job Number: 030239
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	540,556.2721	
Easting (M)	220,850.5540	
Elevation (M)*		
Northing (SFT)	1,773,475.0360	
Easting (SFT)	724,573.8592	
Elevation (SFT)*		

Convergence Angle	-1	5	4.0261955
Scale Factor	0.999920500		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 371 AND STATE HIGHWAY 355, LOCATED ABOUT 8.049 KM (5.0 MI) WEST OF NASHVILLE, GO SOUTH ON STATE HIGHWAY 355 FOR 3.78 KM (2.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 37.50 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 10.90 METERS EAST OF THE CENTER OF STATE HIGHWAY 355 AND 0.97 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "310003 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 546.996 METERS.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE JUNCTION BOX	340	33.00	108.3	
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: 660015</p> <p>Ref Mon # 2: X 303</p> <p>Ref Mon # 3: AHTD HOPE 1</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 310003A	Date Monumented 8/22/2001	Monumented By AHTD	County HOWARD	Route 355	Job Number: 030239
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	540,022.9560	
Easting (M)	220,971.8880	
Elevation (M)*		
Northing (SFT)	1,771,725.3148	
Easting (SFT)	724,971.9359	
Elevation (SFT)*		

Convergence Angle	-1	5	1.1629290
Scale Factor	0.999920671		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 371 AND STATE HIGHWAY 355, LOCATED ABOUT 8.049 KM (5.0 MI) WEST OF NASHVILLE, GO SOUTH ON STATE HIGHWAY 355 FOR 4.34 KM (2.70 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.50 METERS WEST OF THE CENTER OF STATE HIGHWAY 355 AND 3.25 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "310003A 2001" SET ON TOP OF AN IRON ROD 0.60 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 546.996 METERS.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

Area Reference Monuments (used for Processing) Ref Mon # 1 660015 Ref Mon # 2 X 303 Ref Mon # 3 AHTD HOPE 1	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 310004	Date Monumented 7/28/2003	Monumented By AHTD	County HOWARD	Route 369	Job Number: 030285
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	554,285.8570	
Easting (M)	227,241.3850	
Elevation (M)*		
Northing (SFT)	1,818,519.5158	
Easting (SFT)	745,541.1106	
Elevation (SFT)*		

Convergence Angle	-1	2	50.2570001
Scale Factor	0.999918482		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN POST FOR SOUTH END OF GAP G	340	2.30	7.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	DQUA C.O.R.S.
Ref Mon # 2	AHTD HOPE C.O.R.S.
Ref Mon # 3	AHTD ARTX C.O.R.S.

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 310004A	Date Monumented 7/28/2003	Monumented By AHTD	County HOWARD	Route 369	Job Number: 030285
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	553,682.2110	
Easting (M)	227,249.1200	
Elevation (M)*		
Northing (SFT)	1,816,539.0539	
Easting (SFT)	745,566.4879	
Elevation (SFT)*		

Convergence Angle	-1	2	49.8474805
Scale Factor	0.999918472		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAIL BOX 494	355	20.30	66.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 DQUA C.O.R.S.	
Ref Mon # 2 AHTD HOPE C.O.R.S.	
Ref Mon # 3 AHTD ARTX C.O.R.S.	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 2 16.9945836
Longitude	93 52 15.5908704
Ellipsoid Height (M):	176.866
Geoid Height (M):	-27.296

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 369 AND STATE HIGHWAY 26, AT THE SOUTHWEST CORNER OF MT. PLEASANT CEMETERY, WEST OF MURFEESBORO AND EAST OF CENTER POINT, GO SOUTH ON MT. PLEASANT DR FOR 0.05 MILES TO THE STATION ON THE LEFT EAST 9.30 METERS OF THE CENTER LINE AND WEST 0.50 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "310004A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 310005	Date Monumented 7/28/2003	Monumented By AHTD	County HOWARD	Route 26	Job Number: 030285
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	553,649.8360	
Easting (M)	229,922.6920	
Elevation (M)*		
Northing (SFT)	1,816,432.8369	
Easting (SFT)	754,338.0320	
Elevation (SFT)*		

Convergence Angle	-1	1	51.5035694
Scale Factor	0.999918472		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 26 AND 369, AT THE SOUTHWEST CORNER OF MT. PLEASANT CEMETERY, EAST OF MURFEESBORO, AND WEST OF CENTER POINT, GO EAST ON HIGHWAY 26 1.7 MILES TO CORNITH ROAD AND TURN RIGHT (SOUTH) AND GO 0.25 MILES TO THE STATION ON THE RIGHT. WEST 9.5 METERS OF THE CENTER LINE AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "310005 2003" ON TOP OF A 0.80 METER IRON ROD DRIVEN FUSH WITH THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 DQUA C.O.R.S.</p> <p>Ref Mon # 2 AHTD HOPE C.O.R.S.</p> <p>Ref Mon # 3 AHTD ARTX C.O.R.S.</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 310005A	Date Monumented 7/28/2003	Monumented By AHTD	County HOWARD	Route 26	Job Number: 030285
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	553,151.9470	
Easting (M)	229,960.0550	
Elevation (M)*		
Northing (SFT)	1,814,799.3461	
Easting (SFT)	754,460.6138	
Elevation (SFT)*		

Convergence Angle	-1	1	50.4929608
Scale Factor	0.999918470		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	77	18.10	59.4
MK # 2	COMBINATION POLE	120	23.60	77.4
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 DQUA C.O.R.S. Ref Mon # 2 AHTD HOPE C.O.R.S. Ref Mon # 3 AHTD ARTX C.O.R.S.	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description	
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 26 AND 369, AT THE SOUTHWEST CORNER OF MT. PLEASANT CEMETERY, EAST OF MURFEESBORO, AND WEST OF CENTER POINT, GO EAST ON HIGHWAY 26 1.7 MILES TO CORNITH ROAD AND TURN RIGHT (SOUTH) AND GO 0.55 MILES TO THE STATION ON THE RIGHT. WEST 8.4 METERS OF THE CENTER LINE AND EAST 0.85 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "310005A 2003" ON TOP OF A 0.80 METER IRON ROD DRIVEN FUSH WITH THE GROUND.	

AZ Mark Station	310005
Geodetic Azimuth	354 40 40
Grid Azimuth	355 42 30

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 310006	Date Monumented 7/13/2004	Monumented By AHTD	County HOWARD	Route 278	Job Number: R30050
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 543,504.3131		Latitude 33 56 48.1163748
Easting (M) 229,660.4310		Longitude 93 50 34.4506308
Elevation (M)* 114.703		Ellipsoid Height (M): 87.475
		Geoid Height (M): -27.127

Northing (SFT) 1,783,147.0672		
Easting (SFT) 753,477.5974		
Elevation (SFT)* 376.322		

Convergence Angle -1 1 53.2402303		
Scale Factor 0.999919635		
Elevation Adjust. Factor 0.9999819997		
Combined Adjust. Factor 0.9999016361		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 278, 371, AND 27, IN NASHVILLE. GO SOUTH ON HIGHWAY 278 FOR 0.10 MILES TO A PAVED ROAD ON THE RIGHT AND TURN RIGHT AND GO 78.3 METERS TO THE STATION ON THE RIGHT, 7.0 METERS NORTH OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 3.30 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "310006 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station 310006A	
Geodetic Azimuth 12 33 10	
Grid Azimuth 13 35 03	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HOPE	3-Wire elevations were ran from NGS B 61 in Job # R30050
Ref Mon # 2 LROC	
Ref Mon # 3 DQUA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 310006A	Date Monumented 7/13/2004	Monumented By AHTD	County HOWARD	Route 27N	Job Number: R30050
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	544,137.8991				
Easting (M)	229,813.5270				
Elevation (M)*	125.084				
Northing (SFT)	1,785,225.7573				
Easting (SFT)	753,979.8798				
Elevation (SFT)*	410.378				

Convergence Angle	-1	1	50.1520098
Scale Factor	0.999919488		
Elevation Adjust. Factor	0.9999803707		
Combined Adjust. Factor	0.9998998603		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	8	18.60	61.0
MK # 2	SIGN "CHAMBERS PRINT CO."	202	16.50	54.1
MK # 3	WATER METER	195	12.90	42.3

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>AHTD HOPE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>LROC</td> </tr> <tr> <td>Ref Mon # 3</td> <td>DQUA</td> </tr> </table>	Ref Mon # 1	AHTD HOPE	Ref Mon # 2	LROC	Ref Mon # 3	DQUA	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire elevations were ran from NGS B 61 in Job # R30050</td> </tr> </table>	Comments	3-Wire elevations were ran from NGS B 61 in Job # R30050
Ref Mon # 1	AHTD HOPE								
Ref Mon # 2	LROC								
Ref Mon # 3	DQUA								
Comments									
3-Wire elevations were ran from NGS B 61 in Job # R30050									

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 57 8.7673968
Longitude	93 50 28.9329036
Ellipsoid Height (M):	97.829
Geoid Height (M):	-27.133

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY I278/371/27, IN NASHVILLE, GO NORTH ON HIGHWAY 27 0.25 MILES TO THE STATION ON THE LEFT, NORTHWEST 12.0 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTHWEST 1.08 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "310006A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	310006
Geodetic Azimuth	192 33 13
Grid Azimuth	193 35 03

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 310007	Date Monumented 2/1/2017	Monumented By AHTD	County HOWARD	Route 278	Job Number: 030457
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	573,435.4218 0.0020
Easting (M)	211,022.1767 0.0020
Elevation (M)*	

Northing (SFT)	1,881,346.0464	
Easting (SFT)	692,328.5914	
Elevation (SFT)*		

Convergence Angle	-1	8	52.5038260
Scale Factor	0.999923325		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 278W AND STATE HIGHWAY 70, NORTH OF DIERKS, GO WEST ON 278 FOR 5.05 MILES TO THE MARK ON THE LEFT, EAST 32.6' OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 32' OF A GRAVEL DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 310007" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	226	8.23	27.0
MK # 2	CORNER OF 4' CONCRETE RETAINING WAL	351	19.66	64.5
MK # 3	SOUTH END OF 24" CMP	129	4.11	13.5

AZ Mark Station	310007A
Geodetic Azimuth	
Grid Azimuth	

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM</p> <p>Ref Mon # 2 ARLR</p> <p>Ref Mon # 3 OKHV, TXCR</p>	<p style="text-align: center; margin: 0;">Comments</p> <p>GPS DERIVED ELEV. BASED ON CONSTRAINING ORTHOMETRIC HTS. ON AHTD CORS SITES ARCM, ARHP & ARLR IN FINAL STATIC NETWORK ADJUSTMENT.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 310007A	Date Monumented 2/1/2017	Monumented By AHTD	County HOWARD	Route 278	Job Number: 030457
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	572,849.7425 0.0020
Easting (M)	211,043.5258 0.0020
Elevation (M)*	
Northing (SFT)	1,879,424.5302
Easting (SFT)	692,398.6342
Elevation (SFT)*	

Convergence Angle	-1 8 51.7805785
Scale Factor	0.999923043
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:		GPS - Unknown Quality	
Elevation Datum:		NAVD 88	
Geoid Datum:		Geoid 12B	
Latitude	34 12	28.9284588	
Longitude	94 3	2.2571568	
Ellipsoid Height (M):	151.661	0.0090	
Geoid Height (M):	-28.014	0.0090	

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 278W AND STATE HIGHWAY 70, NORTH OF DIERKS, GO WEST ON 278 FOR 4.7 MILES TO THE MARK ON THE LEFT, EAST 17.5' OF THE CENTERLINE OF THE HIGHWAY, NORTH 24' OF A FIELD ROAD AND 96' SOUTH OF THE CENTER OF A HEADWALL. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 310007A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF A 36" RCP	247	7.62	25.0
MK # 2	POWER POLE WITH GUY	290	11.28	37.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARLR Ref Mon # 3 OKHV, TXCR	GPS DERIVED ELEV. BASED ON CONSTRAINING ORTHOMETRIC HTS. ON AHTD CORS SITES ARCM, ARHP & ARLR IN FINAL STATIC NETWORK ADJUSTMENT.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320001	Date Monumented 5/22/1990	Monumented By AHTD	County INDEPENDENCE	Route 25	Job Number: 5933
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Zone	Zone Code	Vertical Determined By:
Arkansas North	301	NONE
Horizontal Datum	Elevation Datum:	
NAD 83 (1986)	NONE	
Geoid Datum:		
Northing (M)	151,550.5170	Latitude
Easting (M)	421,643.2660	35 41 56.8777740
Elevation (M)*		Longitude
		91 45 39.0449124
Northing (SFT)	497,211.9879	Ellipsoid Height (M):
Easting (SFT)	1,383,341.2819	
Elevation (SFT)*		Geoid Height (M):
		-27.379

Convergence Angle	0	8	20.9890148
Scale Factor	0.999937938		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NBC IN 14" PINE	79	14.46	47.4	NONE
MK # 2	NBC IN 14" PINE	112	14.31	46.9	
MK # 3	NBC IN COMBINATION POLE	200	5.87	19.3	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMOND Ref Mon # 2 BATESVILLE Ref Mon # 3 SALADO	DO NOT USE DATA FOR THIS STATION. Old point number 90320001

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320002	Date Monumented 5/22/1990	Monumented By AHTD	County INDEPENDENCE	Route 25	Job Number: 5933
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 151,664.6619		Geoid Datum:
Easting (M) 421,676.4500		Latitude 35 42 0.5789268
Elevation (M)* 		Longitude 91 45 37.7138340
Northing (SFT) 497,586.4783		Ellipsoid Height (M):
Easting (SFT) 1,383,450.1530		Geoid Height (M): -28.315
Elevation (SFT)* 		

Convergence Angle 0 8 21.7635681	Location Description THE STATION IS 36 FEET EAST OF HWY. 25 AT THE EDGE OF OVERLOOK, 20 FEET SOUTHEAST OF A WALKING TRAIL AND 1.5 FEET WEST OF A WITNESS POST.
Scale Factor 0.999937974	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL	
Horizontal Datum 	
Latitude 	
Longitude 	
Ellipsoid Height: 	
Grid Northing (Meters) 	
Grid Easting (Meters) 	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN 12" PINE	97	12.56	41.2	AZ Mark Station NONE
MK # 2	NBC IN 14" PINE	128	15.65	51.3	Geodetic Azimuth
MK # 3	NBC IN 14" PINE	158	25.27	82.9	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 ALMOND Ref Mon # 2 BATESVILLE Ref Mon # 3 SALADO	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DO NOT USE DATA FOR THIS STATION. Old point number 90320002</td> </tr> </table>	Comments	DO NOT USE DATA FOR THIS STATION. Old point number 90320002
Comments			
DO NOT USE DATA FOR THIS STATION. Old point number 90320002			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320003	Date Monumented 5/22/1990	Monumented By AHTD	County INDEPENDENCE	Route 25	Job Number: 5933,050313
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	153,933.7340	0.0020			
Easting (M)	423,583.3808	0.0020			
Elevation (M)*	96.671				
Northing (SFT)	505,030.9256				
Easting (SFT)	1,389,706.4752				
Elevation (SFT)*	317.161				

Convergence Angle	0	9	6.0437961
Scale Factor	0.999938756		
Elevation Adjust. Factor	0.9999848294		
Combined Adjust. Factor	0.9999235863		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	43	14.4583968
Longitude	91	44	20.2708572
Ellipsoid Height:	68.289		
Grid Northing (Meters)	153,946.4610		
Grid Easting (Meters)	423,617.1980		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	43	16.87	55.4
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ALMOND Ref Mon # 2 BATESVILLE Ref Mon # 3 SALADO	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW SS102 IN NOV. 2014</td> </tr> </table>	Comments	ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW SS102 IN NOV. 2014
Comments			
ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW SS102 IN NOV. 2014			

Location Description
THE STATION IS 31 FEET SOUTH OF HWY. 25 AND 310 FEET WEST OF THE JCT. OF HWY. 230 AND HWY. 25 NEAR THE WEST ENTRANCE OF CIRCLE DRIVE.

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEIOD12A
Latitude	35 43 14.0483424
Longitude	91 44 21.6177792
Ellipsoid Height (M):	69.169 0.0260
Geoid Height (M):	-27.498

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320004	Date Monumented 5/22/1990	Monumented By AHTD	County INDEPENDENCE	Route 25	Job Number: 5933,050313
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	153,919.9791	0.0030			
Easting (M)	423,190.9098	0.0030			
Elevation (M)*	104.110				

Northing (SFT)	504,985.7981				
Easting (SFT)	1,388,418.8432				
Elevation (SFT)*	341.569				

Convergence Angle	0	8	56.9558302		
Scale Factor	0.999938751				
Elevation Adjust. Factor	0.9999836620				
Combined Adjust. Factor	0.9999224140				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (1986)				
Latitude	35	43	14.0457936		
Longitude	91	44	35.8932228		
Ellipsoid Height:	75.729				
Grid Northing (Meters)	153,932.7129				
Grid Easting (Meters)	423,224.6120				

Location Description					
TURN LEFT JUST WEST OF BRIDGE AT LOG MILE 4.18 ONTO PRIVATE ROAD, THE STATION IS 0.1 MILES FROM HWY. 25, 8.5 FEET NORTH OF A GUY WIRE ANCHOR, 21 FEET EAST OF THE PRIVATE ROAD, 72 FEET WEST OF THE SPILLWAY OF A LARGE POND AND 0.2 FEET WEST OF WITNESS POST.					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN POWER POLE	129	5.69	18.7	AZ Mark Station NONE
MK # 2	NONE	0	0.00	0.0	Geodetic Azimuth
MK # 3	NONE	0	0.00	0.0	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 ALMOND Ref Mon # 2 BATESVILLE Ref Mon # 3 SALADO	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Comments</td> </tr> <tr> <td>ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW SS102 IN NOV. 2014</td> </tr> </table>	Comments	ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW SS102 IN NOV. 2014
Comments			
ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW SS102 IN NOV. 2014			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320006	Date Monumented 11/28/1994	Monumented By AHTD	County INDEPENDENCE	Route 69	Job Number: R50017
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 153,407.2660		Latitude 35 42 54.1121688
Easting (M) 446,076.9020		Longitude 91 29 26.7214560
Elevation (M)* 86.332		Ellipsoid Height (M): 57.984
Northing (SFT) 503,303.6719		Geoid Height (M): -28.348
Easting (SFT) 1,463,503.9693		
Elevation (SFT)* 283.241		

Convergence Angle	0	17	46.7831862
Scale Factor	0.999938531		
Elevation Adjust. Factor	0.9999864519		
Combined Adjust. Factor	0.9999249837		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18" METAL DRAIN PIPE	305	10.60	34.8
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEWSPORT 1990	
Ref Mon # 2 BATEPORT 1990	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320006A	Date Monumented 11/28/1994	Monumented By AHTD	County INDEPENDENCE	Route 69	Job Number: R50017
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 153,977.9850		Latitude 35 43 12.6378732
Easting (M) 446,033.3850		Longitude 91 29 28.3355160
Elevation (M)* 87.506		Ellipsoid Height (M): 59.155
		Geoid Height (M): -28.351

Northing (SFT) 505,176.1058		
Easting (SFT) 1,463,361.1973		
Elevation (SFT)* 287.093		

Convergence Angle 0 17 45.8439661		
Scale Factor 0.999938740		
Elevation Adjust. Factor 0.9999862676		
Combined Adjust. Factor 0.9999250085		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

FROM THE POST OFFICE IN THE SMALL TOWN OF MAGNESS, GO NORTH ON HWY. 69 FOR 2.365 KM (1.47 MILES) TO THE STATION ON THE LEFT. THE STATION IS 15.5 METERS WEST OF THE CENTER OF HWY. 69, 13.4 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY AND RAILROAD CROSSING, 7.5 METERS EAST OF THE EASTERN MOST RAIL OF THE RAILROAD TRACK AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "320006A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	2" GAS LINE MARKER POST	135	11.50	37.7
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station 320006	
Geodetic Azimuth 175 56 08.6178	
Grid Azimuth 175 38 22.7754	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEWSPORT NOAA	
Ref Mon # 2 BATEPORT NOAA	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320007	Date Monumented 11/28/1994	Monumented By AHTD	County INDEPENDENCE	Route 69	Job Number: R50017
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	156,841.1960	
Easting (M)	444,930.8020	
Elevation (M)*	93.790	
Northing (SFT)	514,569.8239	
Easting (SFT)	1,459,743.8062	
Elevation (SFT)*	307.709	

Convergence Angle	0	17	20.6499728
Scale Factor	0.999939908		
Elevation Adjust. Factor	0.9999852815		
Combined Adjust. Factor	0.9999251904		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	4" FENCE BRACE POST	117			18.00	59.1
MK # 2	NONE					
MK # 3	NONE					

Area Reference Monuments (used for Processing) Ref Mon # 1 NEWSPORT 1990 Ref Mon # 2 BATEPORT 1990 Ref Mon # 3 NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">AZ Mark Station</th> <td style="text-align: center;">320007A</td> </tr> <tr> <th style="text-align: center;">Geodetic Azimuth</th> <td style="text-align: center;">300 45 29.87669</td> </tr> <tr> <th style="text-align: center;">Grid Azimuth</th> <td style="text-align: center;">300 28 09.20908</td> </tr> </table> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>	AZ Mark Station	320007A	Geodetic Azimuth	300 45 29.87669	Grid Azimuth	300 28 09.20908
AZ Mark Station	320007A						
Geodetic Azimuth	300 45 29.87669						
Grid Azimuth	300 28 09.20908						

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 44 45.7243296
Longitude	91 30 11.6316684
Ellipsoid Height (M):	65.423
Geoid Height (M):	-28.367

Location Description
FROM THE POST OFFICE IN SULPHUR ROCK, GO SOUTH ON HWY. 69 SPUR FOR 0.805 KM (0.50 MILES) TO THE JCT. WITH HWY. 69, TURN RIGHT AND NORTH ON HWY. 69 AND GO 0.289 KM (0.18 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 21.6 METERS NORTH OF THE CENTER OF HWY. 69, 20.15 METERS NORTHWEST OF AN AHTD RIGHT-OF-WAY MARKER AND 0.71 METERS SOUTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "320007 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320007A	Date Monumented 11/28/1994	Monumented By AHTD	County INDEPENDENCE	Route 69	Job Number: R50017
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 157,068.3159		Latitude 35 44 53.1566916
Easting (M) 444,544.7540		Longitude 91 30 26.9519544
Elevation (M)* 97.725		Ellipsoid Height (M): 69.357
Northing (SFT) 515,314.9664		Geoid Height (M): -28.368
Easting (SFT) 1,458,477.2471		
Elevation (SFT)* 320.619		

Convergence Angle 0 17 11.7351117	Location Description
Scale Factor 0.999940010	<p>FROM THE POST OFFICE IN SULPHUR ROCK, GO SOUTH ON HWY. 69 FOR 0.805 KM (0.50 MILES) TO THE JCT. WITH HWY. 69, TURN RIGHT AND NORTH ON HWY. 69 AND GO 0.72 KM (0.45 MILES) TO THE STATION ON THE LEFT. THE STATION IS 14.3 METERS SOUTHEAST OF THE CENTER OF HWY. 69 AND 0.93 METERS NORTHEAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "320007A 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 0.9999846640	
Combined Adjust. Factor 0.9999246749	

SUPERCEDED CONTROL				
Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	4" FENCE BRACE POST	310	21.70	71.2	AZ Mark Station 320007
MK # 2	NONE				Geodetic Azimuth 120 45 20.92647
MK # 3	NONE				Grid Azimuth 120 28 09.20908

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 NEWSPORT 1990</p> <p>Ref Mon # 2 BATEPORT 1990</p> <p>Ref Mon # 3 NONE</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320008A	Date Monumented 4/16/1998	Monumented By AHTD	County INDEPENDENCE	Route 122	Job Number: R50064
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 149,692.0830		Latitude 35 40 52.8156588
Easting (M) 450,336.8290		Longitude 91 26 38.0684580
Elevation (M)* 72.339		Ellipsoid Height (M): 44.975
		Geoid Height (M): -27.383

Northing (SFT) 491,114.7756		
Easting (SFT) 1,477,480.0798		
Elevation (SFT)* 237.332		

Convergence Angle 0 19 24.9222187		
Scale Factor 0.999937366		
Elevation Adjust. Factor 0.9999886478		
Combined Adjust. Factor 0.9999260145		

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Description

THE STATION IS LOCATED ABOUT 1.61 KM (1.00 MI) SOUTH OF NEWARK AT THE JUNCTION OF STATE HIGHWAY 122 AND STATE HIGHWAY 69. THE STATION IS 74.114 METERS NORTH OF THE CENTER OF STATE HIGHWAY 69, 11.70 METERS EAST OF THE CENTER OF STATE HIGHWAY 122 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320008A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	175	10.00	32.8
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station 320008	
Geodetic Azimuth 182 53 29.00663	
Grid Azimuth 182 34 04.08382	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEARPORT	
Ref Mon # 2 BATEPORT	
Ref Mon # 3 NEWSPORT	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320009	Date Monumented 6/11/1997	Monumented By AHTD	County INDEPENDENCE	Route 69B	Job Number: R50090
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td colspan="2">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td style="width: 10%; text-align: center;">35</td> <td style="width: 10%; text-align: center;">46</td> <td style="width: 70%;">23.3418576</td> </tr> <tr> <td>Longitude</td> <td style="text-align: center;">91</td> <td style="text-align: center;">39</td> <td>24.6892284</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td colspan="2" style="text-align: center;">54.433</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td colspan="2" style="text-align: center;">-28.365</td> <td></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center; padding: 5px;">Location Description</th> </tr> <tr> <td style="padding: 5px;"> <p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 69B AND STATE HIGHWAY 106, LOCATED ON THE WEST SIDE OF BATESVILLE, GO SOUTHEAST ON STATE HIGHWAY 69B FOR 0.41 KM (0.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.05 METERS NORTHWEST OF THE CENTER OF CHARLES STREET, 5.80 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 69B AND 1.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320009 1997" SET ON TOP OF AN IRON ROD 0.91 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p> </td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	35	46	23.3418576	Longitude	91	39	24.6892284	Ellipsoid Height (M):	54.433			Geoid Height (M):	-28.365			Location Description	<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 69B AND STATE HIGHWAY 106, LOCATED ON THE WEST SIDE OF BATESVILLE, GO SOUTHEAST ON STATE HIGHWAY 69B FOR 0.41 KM (0.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.05 METERS NORTHWEST OF THE CENTER OF CHARLES STREET, 5.80 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 69B AND 1.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320009 1997" SET ON TOP OF AN IRON ROD 0.91 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
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Location Description																													
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Horizontal Datum	NAD 83 (1997)																												
Northing (M)	159,790.3770																												
Easting (M)	431,025.4190																												
Elevation (M)*	82.798																												
Northing (SFT)	524,245.5952																												
Easting (SFT)	1,414,122.5622																												
Elevation (SFT)*	271.646																												
Convergence Angle	0 11	58.8262609																											
Scale Factor	0.999941352																												
Elevation Adjust. Factor	0.9999870065																												
Combined Adjust. Factor	0.9999283592																												

SUPERCEDED CONTROL												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)	
Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
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Grid Easting (Meters)												

Location Reference Marks																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 30%;">Description</th> <th style="width: 10%;">Azimuth</th> <th colspan="2" style="width: 20%;">Distance</th> <th style="width: 30%;"></th> </tr> <tr> <td></td> <td></td> <th style="width: 10%;">Meters</th> <th style="width: 10%;">Feet</th> <td></td> </tr> <tr> <td>MK # 1 FIRE HYDRANT</td> <td style="text-align: center;">139</td> <td style="text-align: center;">7.70</td> <td style="text-align: center;">25.3</td> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">AZ Mark Station</td> <td>320009A</td> </tr> <tr> <td>Geodetic Azimuth</td> <td style="text-align: center;">323 40 47.8702</td> </tr> <tr> <td>Grid Azimuth</td> <td style="text-align: center;">323 28 49.02816</td> </tr> </table> </td> </tr> <tr> <td>MK # 2 SOUTHWEST CORNER OF FUNERAL HOME</td> <td style="text-align: center;">40</td> <td style="text-align: center;">26.80</td> <td style="text-align: center;">87.9</td> <td></td> </tr> <tr> <td>MK # 3</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	Description	Azimuth	Distance					Meters	Feet		MK # 1 FIRE HYDRANT	139	7.70	25.3	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">AZ Mark Station</td> <td>320009A</td> </tr> <tr> <td>Geodetic Azimuth</td> <td style="text-align: center;">323 40 47.8702</td> </tr> <tr> <td>Grid Azimuth</td> <td style="text-align: center;">323 28 49.02816</td> </tr> </table>	AZ Mark Station	320009A	Geodetic Azimuth	323 40 47.8702	Grid Azimuth	323 28 49.02816	MK # 2 SOUTHWEST CORNER OF FUNERAL HOME	40	26.80	87.9		MK # 3				
Description	Azimuth	Distance																													
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Area Reference Monuments (used for Processing) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>BATEPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>J 165</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ALMOND</td> </tr> </table>	Ref Mon # 1	BATEPORT	Ref Mon # 2	J 165	Ref Mon # 3	ALMOND	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center; padding: 5px;">Comments</th> </tr> <tr> <td style="padding: 5px;"> ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING USC&GS BENCH MARK "Y 41" ELEVATION = 99.133 METERS. STATION P.I.D. = FF1639 </td> </tr> </table>	Comments	ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING USC&GS BENCH MARK "Y 41" ELEVATION = 99.133 METERS. STATION P.I.D. = FF1639
Ref Mon # 1	BATEPORT								
Ref Mon # 2	J 165								
Ref Mon # 3	ALMOND								
Comments									
ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING USC&GS BENCH MARK "Y 41" ELEVATION = 99.133 METERS. STATION P.I.D. = FF1639									

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320009A	Date Monumented 6/11/1997	Monumented By AHTD	County INDEPENDENCE	Route 69B	Job Number: R50090
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Vertical Determined By:</td> <td colspan="2">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>46 36.3221472</td> </tr> <tr> <td>Longitude</td> <td>91</td> <td>39 36.3987540</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>66.280</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.366</td> <td></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	35	46 36.3221472	Longitude	91	39 36.3987540	Ellipsoid Height (M):	66.280		Geoid Height (M):	-28.366	
Vertical Determined By:	LEVEL - Unkown Quality																						
Elevation Datum:	NAVD 88																						
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Ellipsoid Height (M):	66.280																						
Geoid Height (M):	-28.366																						
Horizontal Datum NAD 83 (1997)																							
Northing (M)	160,189.3939																						
Easting (M)	430,729.9490																						
Elevation (M)*	94.646																						
Northing (SFT)	525,554.7032	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="3" style="text-align: center;">Location Description</td> </tr> <tr> <td colspan="3"> <p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 69B AND STATE HIGHWAY 106, LOCATED ON THE WEST SIDE OF BATESVILLE, GO NORTHWEST ON STATE HIGHWAY 69B FOR 0.08 KM (0.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.50 METERS SOUTHEAST OF THE CENTER OF BAKER STREET, 5.25 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 69B AND 1.73 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320009A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p> </td> </tr> </table>	Location Description			<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 69B AND STATE HIGHWAY 106, LOCATED ON THE WEST SIDE OF BATESVILLE, GO NORTHWEST ON STATE HIGHWAY 69B FOR 0.08 KM (0.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.50 METERS SOUTHEAST OF THE CENTER OF BAKER STREET, 5.25 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 69B AND 1.73 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320009A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>																	
Location Description																							
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Easting (SFT)	1,413,153.1743																						
Elevation (SFT)*	310.518																						
Convergence Angle 0 11 52.0124981																							
Scale Factor 0.999941561																							
Elevation Adjust. Factor 0.9999851472																							
Combined Adjust. Factor 0.9999267090																							

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	U. S. POSTAL MAIL BOX	310	8.50	27.9		320009
MK # 2	LIGHT POLE	146	16.00	52.5		143 40 41.02477
MK # 3						143 28 49.02816

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BATEPORT	ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING USC&GS BENCH MARK "Y 41" ELEVATION = 99.133 METERS. STATION P.I.D. = FF1639
Ref Mon # 2 J 165	
Ref Mon # 3 ALMOND	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 320010	Date Monumented 6/11/1997	Monumented By AHTD	County INDEPENDENCE	Route 106	Job Number: R50090
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 159,958.1540		Latitude 35 46 29.2181988
Easting (M) 426,931.2500		Longitude 91 42 7.6817376
Elevation (M)* 105.940		Ellipsoid Height (M): 77.580
Northing (SFT) 524,796.0436		Geoid Height (M): -28.360
Easting (SFT) 1,400,690.2760		
Elevation (SFT)* 347.571		

Convergence Angle	0	10	23.9810619
Scale Factor	0.999941446		
Elevation Adjust. Factor	0.9999833748		
Combined Adjust. Factor	0.9999248218		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	0.70 METER PECAN TREE	106	32.40	106.3	AZ Mark Station 320010A
MK # 2	WOODEN CORNER POST	195	35.37	116.0	Geodetic Azimuth 91 37 48.42752
MK # 3					Grid Azimuth 91 27 24.46652

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BATEPORT	ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING USC&GS BENCH MARK "Y 41" ELEVATION = 99.133 METERS. STATION P.I.D. = FF1639
Ref Mon # 2 J 165	
Ref Mon # 3 ALMOND	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 320010A	Date Monumented 6/11/1997	Monumented By AHTD	County INDEPENDENCE	Route 106	Job Number: R50090
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 159,948.6659		Latitude 35 46 28.8734592
Easting (M) 427,304.3590		Longitude 91 41 52.8269532
Elevation (M)* 100.791		Ellipsoid Height (M): 72.431
Northing (SFT) 524,764.9147		Geoid Height (M): -28.360
Easting (SFT) 1,401,914.3845		
Elevation (SFT)* 330.678		

Convergence Angle 0 10 32.6250480	Location Description
Scale Factor 0.999941440	<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 69B AND STATE HIGHWAY 106, LOCATED ON THE WEST SIDE OF BATESVILLE, GO WESTERLY ON STATE HIGHWAY 106 FOR 3.70 KM (2.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.30 METERS NORTHWEST OF THE CENTER OF MILL DAM ROAD, 9.15 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 106 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320010A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 0.9999841829	
Combined Adjust. Factor 0.9999256238	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	AHTD BENCH MARK	85	11.53	37.8	320010
MK # 2	PUNCH IN TOP OF A GUARD RAIL	65	2.05	6.7	271 37 57.11163
MK # 3	PUNCH IN TOP OF A GUARD RAIL	280	3.95	13.0	271 27 24.46652

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BATEPORT	<p>ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING USC&GS BENCH MARK "Y 41" ELEVATION = 99.133 METERS. STATION P.I.D. = FF1639</p>
Ref Mon # 2 J 165	
Ref Mon # 3 ALMOND	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 320011	Date Monumented 7/7/1997	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 5962
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Vertical Determined By:</td> <td colspan="2">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>36 48.5361144</td> </tr> <tr> <td>Longitude</td> <td>91</td> <td>36 22.6740168</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>62.483</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.291</td> <td></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	35	36 48.5361144	Longitude	91	36 22.6740168	Ellipsoid Height (M):	62.483		Geoid Height (M):	-28.291	
Vertical Determined By:	LEVEL - Unkown Quality																						
Elevation Datum:	NAVD 88																						
Geoid Datum:																							
Latitude	35		36 48.5361144																				
Longitude	91		36 22.6740168																				
Ellipsoid Height (M):	62.483																						
Geoid Height (M):	-28.291																						
Horizontal Datum NAD 83 (1997)																							
Northing (M)	142,092.9961																						
Easting (M)	435,667.6260																						
Elevation (M)*	90.851																						
Northing (SFT)	466,183.4380																						
Easting (SFT)	1,429,352.8696																						
Elevation (SFT)*	298.067																						

Convergence Angle	0	13	44.7407538
Scale Factor	0.999936065		
Elevation Adjust. Factor	0.9999857427		
Combined Adjust. Factor	0.9999218086		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAYS 25 AND 14 LOCATED SOUTH OF BATESVILLE AT THE TOP OF RAMSEY MT., GO SOUTH ON HWY-167 FOR 15.05 KM. (9.35 MI.) TO THE STATION ON THE LEFT ACROSS THE HIGHWAY FROM A ROADSIDE PARK AND REST AREA. 27.40 METERS SOUTH OF THE CENTER OF A FIELD ENTRANCE, 17.95 METERS EAST OF THE CENTER OF HWY-167 AND 1.00 METERS WEST OF A WITNESS POST SET NEAR A FIRE HYDRANT. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320011 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	FIRE HYDRANT		151	1.38	4.5
MK # 2	WATER VALVE		209	2.25	7.4
MK # 3	NORTH GATE POST		97	28.20	92.5

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	SEARPORT	ELEVATION BY 3-WIRE LEVELING USING TBM-19 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON
Ref Mon # 2	BATEPORT	
Ref Mon # 3	NEWSPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320011A	Date Monumented 7/7/1997	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 5962
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 142,422.8220		Latitude 35 36 59.2320672
Easting (M) 435,716.4850		Longitude 91 36 20.6800488
Elevation (M)* 93.584		Ellipsoid Height (M): 65.216
		Geoid Height (M): -28.292

Northing (SFT) 467,265.5418		
Easting (SFT) 1,429,513.1679		
Elevation (SFT)* 307.034		

Convergence Angle 0 13 45.9010420		
Scale Factor 0.999936093		
Elevation Adjust. Factor 0.9999853138		
Combined Adjust. Factor 0.9999214078		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAYS 25 AND 14 LOCATED SOUTH OF BATESVILLE AT THE TOP OF RAMSEY MT., GO SOUTH ON HWY-167 FOR 14.73 KM. (9.15 MI.) TO THE STATION ON THE RIGHT. 16.25 METERS WEST OF THE CENTER OF HWY-167, 10.40 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE AND 4.00 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320011A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/TBM-20	282	4.15	13.6
MK # 2	WATER METER	342	6.70	22.0
MK # 3	SOUTH END OF CMP 0.40 METERS IN DIAM	50	9.70	31.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEARPORT	ELEVATION BY 3-WIRE LEVELING USING TBM-20 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON
Ref Mon # 2 BATEPORT	
Ref Mon # 3 NEWSPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320012	Date Monumented 7/7/1997	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 5962
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	147,079.8389	
Easting (M)	435,737.7610	
Elevation (M)*	84.104	
Northing (SFT)	482,544.4381	
Easting (SFT)	1,429,582.9709	
Elevation (SFT)*	275.931	

Convergence Angle	0	13	46.8246912
Scale Factor	0.999936770		
Elevation Adjust. Factor	0.9999868015		
Combined Adjust. Factor	0.9999235723		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH IN TOP OF GUARD RAIL POST	12	4.00	13.1
MK # 2	PUNCH IN TOP OF GUARD RAIL POST	22	2.15	7.1
MK # 3	PUNCH IN TOP OF GUARD RAIL POST	170	3.90	12.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEARPORT Ref Mon # 2 BATEPORT Ref Mon # 3 NEWSPORT	ELEVATION BY 3-WIRE LEVELING USING TBM-32 ON JOB 5962 ESTABLISHED BY CREW SS101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320012A	Date Monumented 7/7/1997	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 5962, 005963
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	147,526.8120
Easting (M)	435,846.5470
Elevation (M)*	88.025
Northing (SFT)	484,010.8824
Easting (SFT)	1,429,939.8796
Elevation (SFT)*	288.795

Convergence Angle	0	13	49.3831050
Scale Factor	0.999936864		
Elevation Adjust. Factor	0.9999861862		
Combined Adjust. Factor	0.9999230511		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	162	11.61	38.1
MK # 2	NORTH GATE POST	118	2.08	6.8
MK # 3	WATER VALVE	285	14.32	47.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEARPORT Ref Mon # 2 BATEPORT Ref Mon # 3 NEWSPORT	ELEVATION BY 3-WIRE LEVELING USING HPT-61 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320013	Date Monumented 7/7/1997	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 5962
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 149,686.7419		Latitude 35 40 55.0574364
Easting (M) 434,742.6870		Longitude 91 36 58.2517260
Elevation (M)* 89.681		Ellipsoid Height (M): 61.291
Northing (SFT) 491,097.2524		Geoid Height (M): -28.320
Easting (SFT) 1,426,318.2989		
Elevation (SFT)* 294.228		

Convergence Angle	0	13	24.0381158
Scale Factor	0.999937384		
Elevation Adjust. Factor	0.9999859263		
Combined Adjust. Factor	0.9999233112		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	266	3.20	10.5
MK # 2	FIRE HYDRANT	83	26.56	87.1
MK # 3	NORTH END OF A CMP 0.60 METERS IN DIA	170	39.35	129.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEARPORT	ELEVATION BY 3-WIRE LEVELING USING TBM-40 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON
Ref Mon # 2 BATEPORT	
Ref Mon # 3 NEWSPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320013A	Date Monumented 7/7/1997	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 5962
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	149,054.9740	
Easting (M)	434,821.1500	
Elevation (M)*	88.219	
Northing (SFT)	489,024.5272	
Easting (SFT)	1,426,575.7230	
Elevation (SFT)*	289.432	

Convergence Angle	0	13	25.7968214
Scale Factor	0.999937220		
Elevation Adjust. Factor	0.9999861558		
Combined Adjust. Factor	0.9999233766		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE=TBM 38	326	19.14	62.8
MK # 2	SOUTH END OF A CMP 0.457 METERS IN DI	350	22.21	72.9
MK # 3	FIRE HYDRANT	93	40.11	131.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEARPORT	ELEVATION BY 3-WIRE LEVELING USING TBM-38 ON JOB 5962 ESTABLISHED BY CREW SS101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON
Ref Mon # 2 BATEPORT	
Ref Mon # 3 NEWSPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320014	Date Monumented 7/7/1997	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 5962, 050115
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 152,934.3699		Latitude 35 42 40.6075644
Easting (M) 433,358.4990		Longitude 91 37 52.8180240
Elevation (M)* 112.618		Ellipsoid Height (M): 84.343
Northing (SFT) 501,752.1786		Geoid Height (M): -28.333
Easting (SFT) 1,421,777.0088		
Elevation (SFT)* 369.480		

Convergence Angle 0 12 52.2860346	Scale Factor 0.999938384
Elevation Adjust. Factor 0.9999823269	Combined Adjust. Factor 0.9999207120

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF HEADWALL	305	15.59	51.2
MK # 2	GUY POLE W/TBM-49	325	50.41	165.4
MK # 3	NORTHWEST CORNER OF BRICK BUILDING	132	58.16	190.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEARPORT	ELEVATION BY 3-WIRE LEVELING USING TBM-49 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON. ELEV. UPDATED BY CREW S5102 DURING JOB 050302 IN SEPT. 2013 FROM FIRST ORDER BM ARBT1
Ref Mon # 2 BATEPORT	
Ref Mon # 3 NEWSPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320014A	Date Monumented 7/7/1997	Monumented By AHTD	County INDEPENDENCE	Route N/A	Job Number: 5962, 050115
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	152,984.6770
Easting (M)	433,729.2830
Elevation (M)*	120.753
Northing (SFT)	501,917.2278
Easting (SFT)	1,422,993.4893
Elevation (SFT)*	396.170

Convergence Angle	0	13	0.8744216
Scale Factor	0.999938401		
Elevation Adjust. Factor	0.9999810503		
Combined Adjust. Factor	0.9999194524		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE TANK SUPPORT	175	56.03	183.8
MK # 2	FENCE CORNER POST	79	46.35	152.1
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEARPORT	ELEVATION BY 3-WIRE LEVELING USING TBM-49 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON
Ref Mon # 2 BATEPORT	
Ref Mon # 3 NEWSPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320016	Date Monumented 12/22/1998	Monumented By AHTD	County INDEPENDENCE	Route 69	Job Number: R50064
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	145,264.4730	
Easting (M)	460,729.0990	
Elevation (M)*	69.742	
Northing (SFT)	476,588.5252	
Easting (SFT)	1,511,575.3856	
Elevation (SFT)*	228.812	

Convergence Angle	0	23	24.7211563
Scale Factor	0.999936422		
Elevation Adjust. Factor	0.9999890553		
Combined Adjust. Factor	0.9999254780		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN TOP OF GUARD RAIL POS	270	3.30	10.8
MK # 2	PUNCH MARK IN TOP OF GUARD RAIL POS	291	1.72	5.6
MK # 3	PUNCH MARK IN TOP OF GUARD RAIL POS	65	2.96	9.7

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>SEARPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>BATEPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NEWSPORT</td> </tr> </table>	Ref Mon # 1	SEARPORT	Ref Mon # 2	BATEPORT	Ref Mon # 3	NEWSPORT	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	SEARPORT						
Ref Mon # 2	BATEPORT						
Ref Mon # 3	NEWSPORT						

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 38 27.0495348
Longitude	91 19 45.9713676
Ellipsoid Height (M):	42.372
Geoid Height (M):	-27.410

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 122 AND STATE HIGHWAY 69, LOCATED ABOUT 1.61 KM (1.00 MI) SOUTH OF NEWARK, GO EAST ON STATE HIGHWAY 69 FOR 13.05 KM (8.11 KM) TO THE WEST END OF A BRIDGE OVER THE BLACK RIVER AND THE STATION ON THE RIGHT. THE STATION IS 7.20 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 69 AND 0.60 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "320016 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320017	Date Monumented 3/11/1999	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 5962, 005963
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 135,966.9660		Latitude 35 33 29.9847168
Easting (M) 433,855.9580		Longitude 91 37 35.5869048
Elevation (M)* 186.952		Ellipsoid Height (M): 159.743
		Geoid Height (M): -27.209

Northing (SFT) 446,084.9543	Easting (SFT) 1,423,409.0889	Location Description
Elevation (SFT)* 613.358		<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND STATE HIGHWAYS 87 AND 157, LOCATED IN PLEASTANT PLAINS, GO NORTH ON U.S. HIGHWAY 167 FOR 0.08 KM (0.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.51 METERS NORTH OF THE CENTER OF A CONCRETE ENTRANCE TO A CONVENIENCE STORE, 14.86 METERS SOUTH OF THE CENTER OF A GRAVEL ENTRANCE TO CONVENIENCE STORE, 11.89 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.60 METERS EAST OF A WITNESS POST. THE STATION MARK IS A 64mm ALUMINUM CAP STAMPED (ARKANSAS LAND SERVICE RLS 1282 320017) SET ON TOP OF A 150mm ROUND CONCRETE MONUMENT SET FLUSH WITH THE GROUND. NGVD 29 ELEVATION = 186.882 METERS</p>
Convergence Angle 0 13 2.3128078		
Scale Factor 0.999936037		
Elevation Adjust. Factor 0.9999706620		
Combined Adjust. Factor 0.9999067009		

SUPERCEDED CONTROL			
Horizontal Datum		Latitude	
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF CMP	13	10.17	33.4
MK # 2	NORTH END OF CMP	167	9.59	31.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEWSPORT	ELEVATION BY THREE WIRE LEVELING USING TBM-901 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATAFORM IS NAVD88 AND WAS ARRIVED AT USING THE VERTCON CONVERSION PROGRAM.
Ref Mon # 2 SEARPORT	
Ref Mon # 3 320011	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320017A	Date Monumented 3/11/1999	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 5962
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	136,338.9080	
Easting (M)	433,972.4290	
Elevation (M)*	194.106	
Northing (SFT)	447,305.2340	
Easting (SFT)	1,423,791.2108	
Elevation (SFT)*	636.829	

Convergence Angle	0	13	5.0367975
Scale Factor	0.999936012		
Elevation Adjust. Factor	0.9999695394		
Combined Adjust. Factor	0.9999055533		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTH END OF CMP	36	6.50	21.3	
MK # 2	NORTH END OF CMP	183	4.33	14.2	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 NEWSPORT Ref Mon # 2 SEARPORT Ref Mon # 3 320011	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>PT HAS BEEN DISTURBED. THE CAP HAS BEEN KNOCKED OFF AS PER MSK 12 JAN 2005.</td> </tr> </table>	Comments	PT HAS BEEN DISTURBED. THE CAP HAS BEEN KNOCKED OFF AS PER MSK 12 JAN 2005.
Comments			
PT HAS BEEN DISTURBED. THE CAP HAS BEEN KNOCKED OFF AS PER MSK 12 JAN 2005.			

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND STATE HIGHWAYS 87 AND 157, LOCATED IN PLEASTANT PLAINS, GO NORTH ON U.S. HIGHWAY 167 FOR 0.47 KM (0.29 MI) TO THE STATION ON THE LEFT SET IN FRONT OF A CHURCH. THE STATION IS 10.45 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167, 10.15 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED (320017A 1999) SET ON TOP OF AN IRON ROD 0.85 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	33	42.0393672
Longitude	91	37	30.9056988
Ellipsoid Height (M):	166.895		
Geoid Height (M):	-27.211		

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320018	Date Monumented 3/19/1999	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 050070,050213
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	169,997.0610	
Easting (M)	440,370.3850	
Elevation (M)*	197.138	
Northing (SFT)	557,732.0243	
Easting (SFT)	1,444,781.8381	
Elevation (SFT)*	646.777	

Convergence Angle	0	15	36.4102139
Scale Factor	0.999947887		
Elevation Adjust. Factor	0.9999690636		
Combined Adjust. Factor	0.9999169522		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	33	18.77	61.6
MK # 2	GAS REGULATOR STATION	59	10.94	35.9
MK # 3	TELEPHONE JUNCTION BOX	195	24.93	81.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Q 313 Ref Mon # 2 FAA 7M9 A Ref Mon # 3 BATEPORT	Elevation by 3 Wire from NGS point Q 165

Vertical Determined By: 3rd Order - 3 Wire Level

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 51 53.3009268

Longitude 91 33 10.7688312

Ellipsoid Height (M): 169.501

Geoid Height (M): -27.634

Location Description

TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO SOUTH ON U.S. HIGHWAY 167 FOR 8.30 KM (5.16 MI) TO THE STATION ON THE LEFT. THE STATION IS 42.313 METERS NORTH OF THE CENTER OF HILLY VILLAGE ROAD, 14.276 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "320018 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320018A	Date Monumented 3/19/1999	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 050070
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	170,580.6680	
Easting (M)	440,620.5000	
Elevation (M)*	192.742	
Northing (SFT)	559,646.7416	
Easting (SFT)	1,445,602.4238	
Elevation (SFT)*	632.354	

Convergence Angle	0	15	42.2735094
Scale Factor	0.999948339		
Elevation Adjust. Factor	0.9999697534		
Combined Adjust. Factor	0.9999180940		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UNDER GROUND CABLE WARNING SIGN	197	27.00	88.6
MK # 2	GATE POST	28	17.06	56.0
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 Q 313 Ref Mon # 2 FAA 7M9 A Ref Mon # 3 BATEPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation by 3 Wire from NGS point Q 165</td> </tr> </table>	Comments	Elevation by 3 Wire from NGS point Q 165
Comments			
Elevation by 3 Wire from NGS point Q 165			

Location Description
TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO SOUTH ON U.S. HIGHWAY 167 FOR 7.68 KM (4.77 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.00 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320018A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	320018
Geodetic Azimuth	203 27 36.71249
Grid Azimuth	203 11 54.41870

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320019	Date Monumented 3/19/1999	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 050070,050213
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	175,931.4540	
Easting (M)	440,652.6620	
Elevation (M)*	176.980	
Northing (SFT)	577,201.7787	
Easting (SFT)	1,445,707.9419	
Elevation (SFT)*	580.642	

Convergence Angle	0	15	43.5873701
Scale Factor	0.999952881		
Elevation Adjust. Factor	0.9999722268		
Combined Adjust. Factor	0.9999251091		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END CMP	345	56.78	186.3
MK # 2	COMBINATION POLE	14	38.30	125.6
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Elevation by 3 Wire from NGS point U 165
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320020	Date Monumented 6/29/2000	Monumented By AHTD	County INDEPENDENCE	Route 106	Job Number: R50109
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	166,542.1708	
Easting (M)	422,022.4382	
Elevation (M)*	153.876	
Northing (SFT)	546,397.1054	
Easting (SFT)	1,384,585.2827	
Elevation (SFT)*	504.841	

Convergence Angle	0	8	30.6249689
Scale Factor	0.999945424		
Elevation Adjust. Factor	0.9999758524		
Combined Adjust. Factor	0.9999212778		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	236	14.45	47.4
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	BATEPORT
Ref Mon # 2	330001
Ref Mon # 3	V 165

Comments
ELEVATION BASED ON AHTD BM 320021. ALSO BM 901 (LM 11.37 E HW) = 502.978 FEET

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 50 3.2891244
Longitude	91 45 22.4854200
Ellipsoid Height (M):	126.193
Geoid Height (M):	-27.547

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 106 AND STATE HIGHWAY 69, LOCATED ABOUT 16.09 KM (10.00 MI) NORTH OF BATESVILLE, GO WEST ON STATE HIGHWAY 106 FOR 2.57 KM (1.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.70 METERS NORTHEAST OF THE CENTER OF A PASTURE ENTRANCE, 10.75 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 106 AND 1.30 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320020 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 399.713 METERS

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320020A	Date Monumented 6/29/2000	Monumented By AHTD	County INDEPENDENCE	Route 106	Job Number: R50109
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	166,263.6081				
Easting (M)	421,735.8186				
Elevation (M)*	161.212				
Northing (SFT)	545,483.1876				
Easting (SFT)	1,383,644.9315				
Elevation (SFT)*	528.909				

Convergence Angle	0	8	23.9634862
Scale Factor	0.999945235		
Elevation Adjust. Factor	0.9999747013		
Combined Adjust. Factor	0.9999199376		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BATEPORT	ALSO BM 902 (LM 11.08 N HW) = 493.19000 FEET. ALSO BM 903 (N HEADWALL) = 490.503 FEET
Ref Mon # 2 330001	
Ref Mon # 3 V 165	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320021	Date Monumented 8/14/2001	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 050095,050313,C32005
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	158,437.0582 0.0030
Easting (M)	432,435.6702 0.0030
Elevation (M)*	82.600

Northing (SFT)	519,805.5818
Easting (SFT)	1,418,749.3613
Elevation (SFT)*	270.998

Convergence Angle	0	12	31.3857907
Scale Factor	0.999940672		
Elevation Adjust. Factor	0.9999870375		
Combined Adjust. Factor	0.9999277102		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)
Latitude	35 45 39.2667912
Longitude	91 38 28.7362860
Ellipsoid Height:	54.959
Grid Northing (Meters)	158,437.0480
Grid Easting (Meters)	432,435.6460

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U. S. HIGHWAY 167 (ST. LOUIS STREET) AND STATE HIGHWAY 69 (HARRISON STREET) LOCATED IN BATESVILLE GO SOUTH ON U.S. HIGHWAY 167 FOR 0.966 KM (0.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.90 METERS WEST OF THE CENTER OF U. S. HIGHWAY 167 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "320021 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS POINT IS ON THE NORTH END OF THE WHITE RIVER BRIDGE. THE SHOT DISTANCE IS 531.287 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN METAL GUARD RAIL POS	153	9.40	30.8
MK # 2	PUNCH MARK IN METAL GUARD RAIL POS	31	3.60	11.8
MK # 3	PUNCH MARK IN METAL GUARD RAIL POS	86	6.75	22.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 V 165 Ref Mon # 2 NEWSPORT Ref Mon # 3 BATEPORT	Elevation determined by digital levels from NGS BM C 334 by crew s5102 during job 050302 in September 2013

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320021A	Date Monumented 8/14/2001	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 050095,050313,C32005
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	157,906.3638 0.0030
Easting (M)	432,459.9066 0.0030
Elevation (M)*	

Northing (SFT)	518,064.4619	
Easting (SFT)	1,418,828.8769	
Elevation (SFT)*		

Convergence Angle	0	12	31.9024172
Scale Factor	0.999940419		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	45	22.0442976
Longitude	91	38	27.8481912
Ellipsoid Height:	54.002		
Grid Northing (Meters)	157,906.3550		
Grid Easting (Meters)	432,459.8890		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN METAL GUARD RAIL POS	20	3.10	10.2
MK # 2	PUNCH MARK IN METAL GUARD RAIL POS	85	1.60	5.2
MK # 3	PUNCH MARK IN METAL GUARD RAIL POS	155	6.05	19.8

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>V 165</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NEWSPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>BATEPORT</td> </tr> </table>	Ref Mon # 1	V 165	Ref Mon # 2	NEWSPORT	Ref Mon # 3	BATEPORT	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	V 165							
Ref Mon # 2	NEWSPORT							
Ref Mon # 3	BATEPORT							
Comments								

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum: GEIOD12A

Latitude 35 45 22.0445820

Longitude 91 38 27.8474928

Ellipsoid Height (M): 54.053 0.0270

Geoid Height (M): -27.582

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U. S. HIGHWAY 167 (ST. LOUIS STREET) AND STATE HIGHWAY 69 (HARRISON STREET) LOCATED IN BATESVILLE GO SOUTH ON U. S. HIGHWAY 167 FOR 1.497 KM (0.93 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.70 METERS WEST OF THE CENTER OF U. S. HIGHWAY 167 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "320021A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION IS ON THE SOUTH END OF THE WHITE RIVER BRIDGE. THE SHOT DISTANCE IS 531.287 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320022	Date Monumented 8/14/2001	Monumented By AHTD	County INDEPENDENCE	Route 69	Job Number: 050095
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	159,497.0680	
Easting (M)	435,369.7710	
Elevation (M)*		
Northing (SFT)	523,283.2973	
Easting (SFT)	1,428,375.6570	
Elevation (SFT)*		

Convergence Angle	0	13	39.4523255
Scale Factor	0.999941193		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	20	24.70	81.0
MK # 2	CORNER STARS AND STRIPES GYM BUILDING	294	29.80	97.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 100%;" type="text" value="V 165"/> Ref Mon # 2 <input style="width: 100%;" type="text" value="NEWSPORT"/> Ref Mon # 3 <input style="width: 100%;" type="text" value="BATEPORT"/>	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	<input style="width: 10%; text-align: center;" type="text" value="35"/> <input style="width: 10%; text-align: center;" type="text" value="46"/> <input style="width: 80%; text-align: center;" type="text" value="13.2991248"/>
Longitude	<input style="width: 10%; text-align: center;" type="text" value="91"/> <input style="width: 10%; text-align: center;" type="text" value="36"/> <input style="width: 80%; text-align: center;" type="text" value="31.7622384"/>
Ellipsoid Height (M):	<input style="width: 40%; text-align: center;" type="text" value="67.048"/> <input style="width: 60%; text-align: center;" type="text"/>
Geoid Height (M):	<input style="width: 40%; text-align: center;" type="text" value="-27.548"/> <input style="width: 60%; text-align: center;" type="text"/>

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U. S. HIGHWAY 167 (ST. LOUIS STREET) AND STATE HIGHWAY 69 (HARRISON STREET) LOCATED IN BATESVILLE, GO EAST ON STATE HIGHWAY 69 FOR 3.428 KM (2.13 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.80 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 69, 9.00 METERS SOUTHWEST OF THE CENTER OF A CONCRETE DRIVE, AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "320022 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 526.338 METERS.</p>

AZ Mark Station	320022A
Geodetic Azimuth	218 08 18
Grid Azimuth	217 54 38

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320022A	Date Monumented 8/14/2001	Monumented By AHTD	County INDEPENDENCE	Route 69	Job Number: 050095
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 159,081.8319		Geoid Datum:
Easting (M) 435,046.3950		Latitude 35 45 59.8673196
Elevation (M)* 		Longitude 91 36 44.7023088
Northing (SFT) 521,920.9768		Ellipsoid Height (M): 79.331
Easting (SFT) 1,427,314.7143		Geoid Height (M): -27.542
Elevation (SFT)* 		

Convergence Angle 0 13 31.9225099	Scale Factor 0.999940984
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	210	31.40	103.0
MK # 2	CONCRETE RIGHT OF WAY MARKER	27	27.55	90.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 V 165	
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 BATEPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320023	Date Monumented 3/29/2002	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 050000,050186
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	160,444.3519	
Easting (M)	432,508.6700	
Elevation (M)*	111.377	
Northing (SFT)	526,391.1779	
Easting (SFT)	1,418,988.8615	
Elevation (SFT)*	365.408	

Convergence Angle	0	12	33.2466573
Scale Factor	0.999941692		
Elevation Adjust. Factor	0.9999825217		
Combined Adjust. Factor	0.9999242147		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	3	13.55	44.5
MK # 2	CONCRETE RIGHT OF WAY MARKER	325	25.75	84.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 FAA 7M9 A	3-Wire Levels ran by Crew S5103 in Sept 2002 from NGS marks J 165 and Batesville.
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 BATEPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320024	Date Monumented 3/29/2002	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 050000,050186,050213
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	163,503.9130
Easting (M)	434,759.4980
Elevation (M)*	119.092
Northing (SFT)	536,429.0879
Easting (SFT)	1,426,373.4530
Elevation (SFT)*	390.720

Convergence Angle	0	13	25.6761714
Scale Factor	0.999943434		
Elevation Adjust. Factor	0.9999813110		
Combined Adjust. Factor	0.9999247460		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	260	14.40	47.2
MK # 2	JOHNA J. DUNCAN GRAVE MARKER	325	16.80	55.1
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 FAA 7M9 A Ref Mon # 2 NEWSPORT Ref Mon # 3 BATEPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels ran by Crew S5103 in Sept 2002 from NGS marks J 165 and Batesville.</td> </tr> </table>	Comments	3-Wire Levels ran by Crew S5103 in Sept 2002 from NGS marks J 165 and Batesville.
Comments			
3-Wire Levels ran by Crew S5103 in Sept 2002 from NGS marks J 165 and Batesville.			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAY 25 AND STATE HIGHWAY 69 LOCATED ON THE NORTH SIDE OF BATESVILLE, GO NORTH ON U.S. HIGHWAY 167 FOR 1.59 MILES TO THE STATION ON THE LEFT. THE STATION IS LOCATED ON THE HILL IN ROSELAWN MEMORIAL GARDENS. THE STATION IS 7.50 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE IN THE CEMETERY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "320024 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 48 23.3879652
Longitude	91 36 55.4367096
Ellipsoid Height (M):	91.560
Geoid Height (M):	-27.551

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320024A	Date Monumented 3/29/2002	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 050000,050186
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	163,220.5489	
Easting (M)	434,332.6200	
Elevation (M)*	111.907	
Northing (SFT)	535,499.4175	
Easting (SFT)	1,424,972.9375	
Elevation (SFT)*	367.149	

Convergence Angle	0	13	15.7565009
Scale Factor	0.999943263		
Elevation Adjust. Factor	0.9999824384		
Combined Adjust. Factor	0.9999257024		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORRIGATED METAL PIPE	260	15.00	49.2
MK # 2	GATE POST	215	12.90	42.3
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 FAA 7M9 A	3-Wire Levels ran by Crew S5103 in Sept 2002 from NGS marks J 165 and Batesville.
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 BATEPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320025	Date Monumented 12/16/2002	Monumented By AHTD	County INDEPENDENCE	Route 25	Job Number: 050136
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	161,844.9889	
Easting (M)	434,485.8080	
Elevation (M)*	90.358	
Northing (SFT)	530,986.4344	
Easting (SFT)	1,425,475.5217	
Elevation (SFT)*	296.450	

Convergence Angle	0	13	19.1835053
Scale Factor	0.999942459		
Elevation Adjust. Factor	0.9999858201		
Combined Adjust. Factor	0.9999282799		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	74	20.90	68.6
MK # 2	MANHOLE COVER	44	9.20	30.2
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER Ref Mon # 2 AHTD PAR1 Ref Mon # 3 RUSSPORT	ELEVATION BY 3 WIRE BY NTB FROM NGS POINT F 165

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 47 29.5952208

Longitude 91 37 6.5944272

Ellipsoid Height (M): 62.810

Geoid Height (M): -27.532

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 233, GO EAST ON STATE HIGHWAY 25 FOR 0.10 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.1 METERS NORTH OF THE CENTER OF STATE HIGHWAY 25 AND 0.30 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "320025 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	320025A
Geodetic Azimuth	93 10 35
Grid Azimuth	92 57 16

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320025A	Date Monumented 12/16/2002	Monumented By AHTD	County INDEPENDENCE	Route 25	Job Number: 050136
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	161,808.6159	
Easting (M)	435,190.5760	
Elevation (M)*	92.236	
Northing (SFT)	530,867.1007	
Easting (SFT)	1,427,787.7481	
Elevation (SFT)*	302.611	

Convergence Angle	0	13	35.5124884
Scale Factor	0.999942437		
Elevation Adjust. Factor	0.9999855254		
Combined Adjust. Factor	0.9999279632		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	85	41.40	135.8	
MK # 2	REINFORCED CONCRETE PIPE	340	26.50	86.9	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: BUTLER	ELEVATION BY 3 WIRE BY NTB FROM NGS POINT F 165
Ref Mon # 2: AHTD PAR1	
Ref Mon # 3: RUSSPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320026	Date Monumented 6/27/2005	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 005963
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 136,044.9320		Geoid Datum:
Easting (M) 434,313.0930		Latitude 35 33 32.4579672
Elevation (M)* 		Longitude 91 37 17.4224460
Northing (SFT) 446,340.7477		Ellipsoid Height (M): 164.268
Easting (SFT) 1,424,908.8726		Geoid Height (M): -27.208
Elevation (SFT)* 		

Convergence Angle 0 13 12.8826906	Location Description
Scale Factor 0.999936032	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND STATE HIGHWAYS 87 AND 157, LOCATED IN PLEASTANT PLAINS, GO NORTH ON U.S. HIGHWAY 167 FOR 0.1 MILES TO THE STATION ON THE RIGHT. THE STATION MARK IS 25.6 METERS EAST OF THE CENTERLINE OF THE HIGHWAY AND 1.05 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320026 2005" SET ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p> <p>HARN</p>
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL				
Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	POWER POLE	3	15.30	50.2		320017
MK # 2	TELEPHONE RISER	175	14.20	46.6		260 30 05
MK # 3						260 16 52

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HEBEPOR, NEWSPORT	
Ref Mon # 2 BATEPORT	
Ref Mon # 3 BUTLER	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320027	Date Monumented 6/27/2005	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 005963
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	142,593.5680	
Easting (M)	435,773.1380	
Elevation (M)*		
Northing (SFT)	467,825.7310	
Easting (SFT)	1,429,699.0369	
Elevation (SFT)*		

Convergence Angle	0	13	47.2268957
Scale Factor	0.999936108		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	POWER POLE	150	4.50	14.8	AZ Mark Station	320027A
MK # 2	WOOD FENCE POST	172	7.10	23.3	Geodetic Azimuth	195 57 14
MK # 3	GUY WIRE	132	7.05	23.1	Grid Azimuth	195 43 27

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HEBEPOR, NEWSPOR	
Ref Mon # 2 BATEPOR	
Ref Mon # 3 BUTLER	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320027A	Date Monumented 6/27/2005	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 005963
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	142,088.8970	
Easting (M)	435,631.0530	
Elevation (M)*		
Northing (SFT)	466,169.9896	
Easting (SFT)	1,429,232.8797	
Elevation (SFT)*		

Convergence Angle	0	13	43.8947078
Scale Factor	0.999936065		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGHWAY 157, IN PLEASANT PLAINS, GO NORTH ON 167 4.10 MILES TO THE STATION MARK ON THE LEFT, 10.0 METERS SOUTH OF A THE SOUTHERN MOST ENTRANCE TO ROAD SIDE PARK, WEST 24.0 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 METER CAP STAMPED "320027A 2005" ON TOP OF A 0.65 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	SOUTH END OF RCP		131	6.20	20.3	
MK # 2	NORTH END OF GUARDRAIL		128	12.30	40.4	
MK # 3	SOUTHEAST END OF RCP		293	15.30	50.2	

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	HEBEPOR, NEWSPOR	
Ref Mon # 2	BATEPOR	
Ref Mon # 3	BUTLER	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320028	Date Monumented 6/28/2005	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 005963
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	147,027.3480	
Easting (M)	435,719.0070	
Elevation (M)*	83.503	
Northing (SFT)	482,372.2242	
Easting (SFT)	1,429,521.4421	
Elevation (SFT)*	273.959	

Convergence Angle	0	13	46.3859402
Scale Factor	0.999936760		
Elevation Adjust. Factor	0.9999868958		
Combined Adjust. Factor	0.9999236567		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTHWEST CORNER OF HEADWALL	311	0.50	1.6	
MK # 2	NORTHWEST CORNER OF HEADWALL	13	12.10	39.7	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 HEBEPORT, NEWSPORT Ref Mon # 2 BATEPORT Ref Mon # 3 BUTLER	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 39 28.6402392

Longitude 91 36 19.8467460

Ellipsoid Height (M): 56.173

Geoid Height (M): -27.329

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGHWAY 157, IN PLEASANT PLAINS, GO NORTH ON 167 7.3 MILES TO THE STATION MARK ON THE LEFT, 17.70 METERS WEST OF THE CENTERLINE OF THE HIGHWAY AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 METER CAP STAMPED "320028 2005" ON TOP OF A 0.65 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320029	Date Monumented 6/28/2005	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 005963
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	149,842.1740
Easting (M)	434,756.0260
Elevation (M)*	
Northing (SFT)	491,607.1992
Easting (SFT)	1,426,362.0620
Elevation (SFT)*	

Convergence Angle	0	13	24.3608401
Scale Factor	0.999937426		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	189	8.10	26.6
MK # 2	COMBINATION POLE W/LIGHT	5	31.00	101.7
MK # 3	NORTHEAST CORNER WINGWALL	185	23.25	76.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HEBEPORT, NEWSPORT	
Ref Mon # 2 BATEPORT	
Ref Mon # 3 BUTLER	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 41 0.0991968
Longitude	91 36 57.6971208
Ellipsoid Height (M):	63.910
Geoid Height (M):	-27.362

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGHWAY 157, IN PLEASANT PLAINS, GO NORTH ON 167 9.4 MILES TO THE STATION MARK ON THE RIGHT, 35.10 METERS SOUTH OF A DRIVEWAY, EAST 19.20 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 METER CAP STAMPED "320029 2005" ON TOP OF A 0.75 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	320029
Geodetic Azimuth	175 52 02
Grid Azimuth	175 38 38

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320029A	Date Monumented 6/28/2005	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: 005963
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	149,051.7349	
Easting (M)	434,816.2380	
Elevation (M)*		
Northing (SFT)	489,013.9003	
Easting (SFT)	1,426,559.6075	
Elevation (SFT)*		

Convergence Angle	0	13	25.6828602
Scale Factor	0.999937219		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTH END OF RCP	340	22.25	73.0	
MK # 2	TELEPHONE RISER	332	19.80	65.0	
MK # 3	COMBINATION POLE	163	24.10	79.1	

Area Reference Monuments (used for Processing) Ref Mon # 1 HEBEPORT, NEWSPORT Ref Mon # 2 BATEPORT Ref Mon # 3 BUTLER	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGHWAY 157, IN PLEASANT PLAINS, GO NORTH ON 167 8.9 MILES TO THE STATION MARK ON THE LEFT, 32.40 METERS SOUTH OF KYLER ROAD, WEST 19.50 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 METER CAP STAMPED "320029A 3 2005" ON TOP OF A 0.75 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.	

AZ Mark Station	320029
Geodetic Azimuth	355 52 04
Grid Azimuth	355 38 38

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320030	Date Monumented 8/9/2010	Monumented By AHTD	County Independence	Route 167	Job Number: 050213
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	165,416.6769	
Easting (M)	436,723.5580	
Elevation (M)*	124.272	
Northing (SFT)	542,704.5475	
Easting (SFT)	1,432,817.2065	
Elevation (SFT)*	407.717	

Convergence Angle	0	14	11.3828073
Scale Factor	0.999944638		
Elevation Adjust. Factor	0.9999804980		
Combined Adjust. Factor	0.9999251371		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	"American vetrans' sign	286	3.65	12.0
MK # 2	North end of a 24 inch culvert	170	8.53	28.0
MK # 3	Fire hydrant	0	21.65	71.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	
Ref Mon # 2 ARPG	
Ref Mon # 3 MONA, MOWS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320030A	Date Monumented 8/9/2010	Monumented By AHTD	County Independence	Route 167	Job Number: 050213
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	164,949.1069	
Easting (M)	436,562.0860	
Elevation (M)*	124.433	
Northing (SFT)	541,170.5282	
Easting (SFT)	1,432,287.4438	
Elevation (SFT)*	408.245	

Convergence Angle	0	14	7.5948101
Scale Factor	0.999944334		
Elevation Adjust. Factor	0.9999804727		
Combined Adjust. Factor	0.9999248078		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	199	13.11	43.0
MK # 2	Fence corner	99	1.37	4.5
MK # 3	Southwest corner of a church	75	13.72	45.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARPG Ref Mon # 3 MONA, MOWS	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 49 10.0457544
Longitude	91 35 43.3990716
Ellipsoid Height (M):	96.866
Geoid Height (M):	-27.569

Location Description
<p>To reach the station from the junction of highways 167 and 394 north of Batesville go north on hwy-167 for 1.0 miles to the station on the right. 53.0 feet east of the center of hwy-167 and 4.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "320030A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320031	Date Monumented 8/9/2010	Monumented By AHTD	County Independence	Route 167	Job Number: 050213
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	168,700.6449	
Easting (M)	438,664.2300	
Elevation (M)*	158.627	
Northing (SFT)	553,478.6991	
Easting (SFT)	1,439,184.2279	
Elevation (SFT)*	520.428	

Convergence Angle	0	14	56.7049212
Scale Factor	0.999946917		
Elevation Adjust. Factor	0.9999751069		
Combined Adjust. Factor	0.9999220252		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	southwest corner of a metal building	127	7.32	24.0	
MK # 2	Fence corner at driveway	65	14.02	46.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	
Ref Mon # 2 ARPG	
Ref Mon # 3 MONA, MOWS	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 51 11.4826716
Longitude	91 34 19.0028100
Ellipsoid Height (M):	131.016
Geoid Height (M):	-27.611

Location Description
<p>To reach the station from the junction of highways 167 and 394 north of Batesville go north on hwy-167 for 3.70 miles to the station on the right. 40.0 feet east of the center of hwy-167, 50.0 feet south of a gravel drive, 19.0 feet northwest of a mailbox, 19.0 feet west of a web wire fence and 19.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "320031 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>

AZ Mark Station	320031A
Geodetic Azimuth	220 21 04
Grid Azimuth	220 06 07

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320031A	Date Monumented 8/9/2010	Monumented By AHTD	County Independence	Route 167	Job Number: 050213
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	168,294.9699	
Easting (M)	438,322.5950	
Elevation (M)*	149.497	
Northing (SFT)	552,147.7471	
Easting (SFT)	1,438,063.3804	
Elevation (SFT)*	490.476	

Convergence Angle	0	14	48.7412459
Scale Factor	0.999946622		
Elevation Adjust. Factor	0.9999765396		
Combined Adjust. Factor	0.9999231628		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	36 inch Cedar tree	44	14.95	49.0	
MK # 2					
MK # 3					

AZ Mark Station	320031
Geodetic Azimuth	40 20 56
Grid Azimuth	40 06 07

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	
Ref Mon # 2 ARPG	
Ref Mon # 3 MONA, MOWS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320032	Date Monumented 8/16/2010	Monumented By AHTD	County Independence	Route 167	Job Number: 050213
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	170,504.1729	
Easting (M)	440,556.0900	
Elevation (M)*	192.923	
Northing (SFT)	559,395.7739	
Easting (SFT)	1,445,391.1053	
Elevation (SFT)*	632.948	

Convergence Angle	0	15	40.7713186
Scale Factor	0.999948279		
Elevation Adjust. Factor	0.9999697250		
Combined Adjust. Factor	0.9999180056		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	283	4.40	14.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARPG Ref Mon # 3 MONA, MOWS	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 52 9.7275072
Longitude	91 33 3.2742252
Ellipsoid Height (M):	165.276
Geoid Height (M):	-27.641

Location Description
To reach the station from the junction of highways 167 and 394 north of Batesville go north on hwy-167 for 5.40 miles to the station on the left at the driveway to "Tom's auto body and used cars". 46.0 feet west of the center of hwy-167, 136 feet north of a gravel drive and 14.10 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "320032 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320033	Date Monumented 8/16/2010	Monumented By AHTD	County Independence	Route 167	Job Number: 050213
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	172,537.0119	
Easting (M)	440,462.5540	
Elevation (M)*	220.233	
Northing (SFT)	566,065.1799	
Easting (SFT)	1,445,084.2292	
Elevation (SFT)*	722.549	

Convergence Angle	0	15	38.8162388
Scale Factor	0.999949918		
Elevation Adjust. Factor	0.9999654394		
Combined Adjust. Factor	0.9999153591		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	25	14.33	47.0
MK # 2	Gas valve	40	15.85	52.0
MK # 3	Telephone box	160	25.90	85.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARPG Ref Mon # 3 MONA, MOWS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 53 15.6996204
Longitude	91 33 6.6340512
Ellipsoid Height (M):	192.556
Geoid Height (M):	-27.666

Location Description
To reach the station from the Independence and Sharp county lines in Cave City go south on hwy-167 for 3.70 miles to the station on the left. 101 feet north of the center of a gravel drive and 3.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "320033 2010" set on top of a 5/8 inch by 2.0 foot long rebar and is 0.20 feet below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320033A	Date Monumented 8/16/2010	Monumented By AHTD	County Independence	Route NA	Job Number: 050213
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	173,235.6659	
Easting (M)	440,654.1350	
Elevation (M)*	221.048	
Northing (SFT)	568,357.3472	
Easting (SFT)	1,445,712.7746	
Elevation (SFT)*	725.223	

Convergence Angle	0	15	43.3353948
Scale Factor	0.999950504		
Elevation Adjust. Factor	0.9999653115		
Combined Adjust. Factor	0.9999158172		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Fire hydrant	297	9.14	30.0	
MK # 2	Power pole	67	19.81	65.0	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARPG Ref Mon # 3 MONA, MOWS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320034	Date Monumented 10/21/2014	Monumented By AHTD	County INDEPENDENCE	Route 25	Job Number: 050313
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	156,232.9342 0.0020
Easting (M)	426,858.2926 0.0020
Elevation (M)*	81.843 0.0020
Northing (SFT)	512,574.2183
Easting (SFT)	1,400,450.9150
Elevation (SFT)*	268.512

Convergence Angle	0 10 22.0304063
Scale Factor	0.999939675
Elevation Adjust. Factor	0.9999871564
Combined Adjust. Factor	0.9999268322

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	24 IN. CORRUGATED METAL PIPE	35	2.00	6.6
MK # 2	COMBINATION POLE	249	2.50	8.2
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 P777	ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW S5102 IN NOV. 2014
Ref Mon # 2 ARBT	
Ref Mon # 3 ARPG	

Vertical Determined By: 3rd Order - Digital Levels

Elevation Datum: NAVD 88

Geoid Datum: GEIOD12A

Latitude 35 44 28.3512516

Longitude 91 42 11.0339604

Ellipsoid Height (M): 54.312 0.0250

Geoid Height (M): -27.549

Location Description

TO REACH FROM THE JUNCTION OF HIGHWAY 230 AND HIGHWAY 25 IN LOCUST GROVE. GO NORTH ON HIGHWAY 25 FOR 2.5 MILES TO THE STATION ON THE RIGHT. THE STATION MARK IS 2 FT. NORTH OF A WITNESS POST, 30 FT. SOUTH OF THE CENTERLINE OF HIGHWAY 25, AND 16 FT. WEST OF A GRAVEL FIELD ENTRANCE. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "320034 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320034A	Date Monumented 10/21/2014	Monumented By AHTD	County INDEPENDENCE	Route 25	Job Number: 050313
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	156,930.6885	0.0020			
Easting (M)	426,887.7780	0.0020			
Elevation (M)*	81.822	0.0022			
Northing (SFT)	514,863.4339				
Easting (SFT)	1,400,547.6517				
Elevation (SFT)*	268.444				

Convergence Angle	0	10	22.7620658
Scale Factor	0.999939980		
Elevation Adjust. Factor	0.9999871596		
Combined Adjust. Factor	0.9999271404		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 P777 Ref Mon # 2 ARBT Ref Mon # 3 ARPG	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW S5102 IN NOV. 2014</td> </tr> </table>	Comments	ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW S5102 IN NOV. 2014
Comments			
ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW S5102 IN NOV. 2014			

Location Description	
TO REACH FROM THE JUNCTION OF HWY. 230 AND HWY. 25 IN LOCUST GROVE. GO NORTH ON HWY. 25 FOR 2.5 MILES TO GREENBRIER FARM RD. TURN NORTH / LEFT ON GREENBRIER FARM RD. GO FOR 0.4 MILES TO THE STATION ON THE RIGHT. THE STATION MARK IS 39.5 FT. EAST OF THE CENTER OF GREENBRIER FARM RD., AND SET IN THE MIDDLE OF A FARM ROAD. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "320034A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 1 FT. BELOW THE SURFACE.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320035	Date Monumented 10/21/2014	Monumented By AHTD	County INDEPENDENCE	Route 25	Job Number: 050313
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	155,192.4416	0.0020			
Easting (M)	430,513.0577	0.0020			
Elevation (M)*	121.567	0.0017			
Northing (SFT)	509,160.5355				
Easting (SFT)	1,412,441.5901				
Elevation (SFT)*	398.840				

Convergence Angle	0	11	46.5905513
Scale Factor	0.999939236		
Elevation Adjust. Factor	0.9999809226		
Combined Adjust. Factor	0.9999201597		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	104	46.30	151.9
MK # 2	METAL SIGN POST (FUN TIME RV SALES)	290	27.90	91.5
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 P777 Ref Mon # 2 ARBT Ref Mon # 3 ARPG	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW SS102 IN NOV. 2014</td> </tr> </table>	Comments	ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW SS102 IN NOV. 2014
Comments			
ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW SS102 IN NOV. 2014			

Location Description
TO REACH FROM THE JCT. OF HWY. 230 AND HWY. 25 IN LOCUST GROVE. GO NORTH ON HWY. 25 FOR 4.9 MILES TO THE STATION ON THE LEFT. THE STATION IS 2.5 FT. SOUTH OF A WITNESS POST, AND 32 FT. NORTH OF THE CENTERLINE OF HWY. 25. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "320035 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

AZ Mark Station	320035A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320035A	Date Monumented 10/21/2014	Monumented By AHTD	County INDEPENDENCE	Route 25	Job Number: 050313
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	155,304.0853 0.0020
Easting (M)	429,928.0851 0.0020
Elevation (M)*	110.443 0.0020
Northing (SFT)	509,526.8199
Easting (SFT)	1,410,522.3925
Elevation (SFT)*	362.345

Convergence Angle	0 11 33.0531373
Scale Factor	0.999939282
Elevation Adjust. Factor	0.9999826682
Combined Adjust. Factor	0.9999219512

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
<p>TO REACH FROM THE JCT. OF HWY. 230 AND HWY. 25 IN LOCUST GROVE. GO NORTH ON HWY. 25 FOR 4.6 MILES TO THE STATION ON THE RIGHT. THE STATION MARK IS 2 FT. SOUTH OF A WITNESS POST, 41 FT. SOUTH OF THE CENTERLINE OF HWY. 25, AND 126 FT. EAST OF THE CENTERLINE OF FRED ST. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "320035A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	294	30.20	99.1
MK # 2	COMBINATION POLE	73	6.30	20.7
MK # 3	NORTHEAST CORNER OF FRONT PORCH	201	15.00	49.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 P777 Ref Mon # 2 ARBT Ref Mon # 3 ARPG	ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW S5102 IN NOV. 2014

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320036	Date Monumented 3/14/2019	Monumented By ARDOT	County INDEPENDENCE	Route 14	Job Number: 14SLIDE
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	155,897.7502	0.0010			
Easting (M)	415,119.0385	0.0010			
Elevation (M)*					
Northing (SFT)	511,474.5354				
Easting (SFT)	1,361,936.3788				
Elevation (SFT)*					

Convergence Angle	0	5	50.1401727
Scale Factor	0.999939544		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					320036A	
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	
Ref Mon # 2 ARM3	
Ref Mon # 3 ARHR, P777	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320036A	Date Monumented 3/14/2019	Monumented By ARDOT	County INDEPENDENCE	Route 14	Job Number: 14SLIDE
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	156,175.4624 0.0010
Easting (M)	415,492.4075 0.0010
Elevation (M)*	

Northing (SFT)	512,385.6629	
Easting (SFT)	1,363,161.3403	
Elevation (SFT)*		

Convergence Angle	0	5	58.7981544
Scale Factor	0.999939662		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25S AND STATE HIGHWAY 14W, IN LOCUST GROVE, GO WEST ON HIGHWAY 14 FOR 5.5 MILES TO THE MARK ON THE LEFT, 27' SOUTHEAST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 320036A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description	Azimuth	Distance			
		Meters	Feet		
MK # 1 CENTER OF HDWL	14	6.40	21.0	AZ Mark Station	320036
MK # 2 PP WITH GUY	221	23.50	77.1	Geodetic Azimuth	
MK # 3				Grid Azimuth	

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARBT</p> <p>Ref Mon # 2 ARM3</p> <p>Ref Mon # 3 ARHR, P777</p>	<p style="text-align: center; margin: 0;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320037	Date Monumented 3/14/2019	Monumented By ARDOT	County INDEPENDENCE	Route 14	Job Number: 14SLIDE
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	156,017.4063 0.0010
Easting (M)	417,823.0320 0.0010
Elevation (M)*	

Northing (SFT)	511,867.1072	
Easting (SFT)	1,370,807.7308	
Elevation (SFT)*		

Convergence Angle	0	6	52.7670552
Scale Factor	0.999939592		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25S AND STATE HIGHWAY 14W, IN LOCUST GROVE, GO WEST ON HIGHWAY 14 FOR 4.05 MILES TO THE MARK ON THE RIGHT, 17' NORTHEAST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 320037" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description	Azimuth	Distance			
		Meters	Feet		
MK # 1 PP	313	27.43	90.0		
MK # 2 HDWL	300	24.99	82.0		
MK # 3					

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARBT</p> <p>Ref Mon # 2 ARM3</p> <p>Ref Mon # 3 ARHR, P777</p>	<p style="text-align: center; margin: 0;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320038	Date Monumented 7/15/2019	Monumented By ARDOT	County INDEPENDENCE	Route 69	Job Number: 050420
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	159,547.8588 0.0080
Easting (M)	435,665.2080 0.0020
Elevation (M)*	

Northing (SFT)	523,449.9334	
Easting (SFT)	1,429,344.9366	
Elevation (SFT)*		

Convergence Angle	0	13	46.3016963
Scale Factor	0.999941218		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 394 IN BATESVILLE, INDEPENDENCE COUNTY ARKANSAS. TRAVEL WEST ALONG HIGHWAY 69, 0.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS 94FT NORTH OF THE CENTERLINE OF HIGHWAY 69 AND 3 FT SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2" ALUMINUM CAP STAMPED 320038, 2019 SET ON TOP OF A 4' REBAR DRIVEN BELOW GROUND SURFACE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	90	16.76	55.0
MK # 2	COMBINATION POLE	277	29.26	96.0
MK # 3	CENTER OF CATCH BASIN MANHOLE	220	21.95	72.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320038A	Date Monumented 7/15/2019	Monumented By ARDOT	County INDEPENDENCE	Route 69	Job Number: 050420
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	159,395.9287 0.0070
Easting (M)	436,242.2200 0.0020
Elevation (M)*	

Northing (SFT)	522,951.4761	
Easting (SFT)	1,431,238.0168	
Elevation (SFT)*		

Convergence Angle	0	13	59.6556005
Scale Factor	0.999941140		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 394 IN BATESVILLE, INDEPENDENCE COUNTY ARKANSAS. TRAVEL WEST ALONG HIGHWAY 69, 100 FEET TO THE STATION ON THE RIGHT. THE STATION IS 48 FT NORTH OF THE CENTERLINE OF HIGHWAY 69 AND 37 FT SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2" ALUMINUM CAP STAMPED 320038A, 2019 SET ON TOP OF A 4' REBAR DRIVEN BELOW GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF CATCH BASIN MANHOLE	158	5.79	19.0
MK # 2	COMBINATION POLE	302	42.06	138.0
MK # 3	TRAFFIC SIGNAL POLE	115	22.86	75.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320039	Date Monumented 7/15/2019	Monumented By ARDOT	County INDEPENDENCE	Route 69	Job Number: 050420
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	159,209.0769				
Easting (M)	439,310.4644	0.0020			
Elevation (M)*					
Northing (SFT)	522,338.4465				
Easting (SFT)	1,441,304.4153				
Elevation (SFT)*					

Convergence Angle	0	15	10.7203329
Scale Factor	0.999941039		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF 36" CONCRETE CULVERT	262	9.75	32.0
MK # 2	COMBINATION POLE	205	9.45	31.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 150px;"></td> </tr> </table>	Comments	
Comments			

Location Description <p>TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 223 IN MORFIELD, INDEPENDENCE COUNTY ARKANSAS. TRAVEL EAST ALONG HIGHWAY 69, 0.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS 39 FT SOUTH OF THE CENTERLINE OF HIGHWAY 69 AND 23 FT NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2" ALUMINUM CAP STAMPED 320039, 2019 SET ON TOP OF A 4' REBAR DRIVEN BELOW GROUND SURFACE.</p>	
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320039A	Date Monumented 7/15/2019	Monumented By ARDOT	County INDEPENDENCE	Route 69	Job Number: 050420
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	159,229.3306 0.0040
Easting (M)	439,768.1288 0.0020
Elevation (M)*	
Northing (SFT)	522,404.8955
Easting (SFT)	1,442,805.9359
Elevation (SFT)*	

Convergence Angle	0 15 21.3251722
Scale Factor	0.999941048
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	97	26.21	86.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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Vertical Determined By:

Elevation Datum:

Geoid Datum: Geoid 12B

Latitude 35 46 4.0095480

Longitude 91 33 36.6926400

Ellipsoid Height (M): 69.546 0.0040

Geoid Height (M): -27.607

Location Description

TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 223 IN MORFIELD, INDEPENDENCE COUNTY ARKANSAS. TRAVEL EAST ALONG HIGHWAY 69, 0.6 MILES TO THE STATION ON THE RIGHT. THE STATION IS 59 FT SOUTH OF THE CENTERLINE OF HIGHWAY 69 AND 10 FT NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2" ALUMINUM CAP STAMPED 320039, 2019 SET ON TOP OF A 4' REBAR DRIVEN BELOW GROUND SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330001	Date Monumented 10/27/1999	Monumented By AHTD	County IZARD	Route 69	Job Number: 050053,050178
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	190,763.4259
Easting (M)	409,258.2640
Elevation (M)*	192.048
Northing (SFT)	625,863.0065
Easting (SFT)	1,342,708.1545
Elevation (SFT)*	630.076

Convergence Angle	0	3	35.2538996
Scale Factor	0.999969288		
Elevation Adjust. Factor	0.9999698624		
Combined Adjust. Factor	0.9999391513		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 69 AND COLLEGE DRIVE, LOCATED IN MELBOURNE ABOUT 0.64 KM (0.40 MI) EAST OF THE IZARD COUNTY COURT HOUSE, GO NORTH ON COLLEGE DRIVE FOR 0.64 KM (0.40 MI) TO THE NORTH ENTRANCE TO OZARKA COLLEGE AND THE STATION ON THE LEFT. THE STATION IS 25.85 METERS NORTHEAST OF THE CENTER OF COLLEGE DRIVE, 7.90 METERS NORTHWEST OF THE CENTER OF THE ENTRANCE TO OZARKA COLLEGE AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "330001 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 327.345 METERS.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	167	16.93	55.5
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 Q 313</p> <p>Ref Mon # 2 FAA 7M9 A</p> <p>Ref Mon # 3 BATEPORT</p>	<p style="text-align: center;">Comments</p> <p>Elevation by 3 Wire from USGS point 7KW, NGS E17, and NGS H17 via Job 050053, 050178, 050011, & 050012</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330001A	Date Monumented 10/27/1999	Monumented By AHTD	County IZARD	Route 69	Job Number: 050053,050178
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	191,087.8519	
Easting (M)	409,214.8020	
Elevation (M)*	185.321	
Northing (SFT)	626,927.3941	
Easting (SFT)	1,342,565.5629	
Elevation (SFT)*	608.007	

Convergence Angle	0	3	34.2512478
Scale Factor	0.999969706		
Elevation Adjust. Factor	0.9999709180		
Combined Adjust. Factor	0.9999406248		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF A HEADWALL	244	3.00	9.8
MK # 2	TELEPHONE JUNCTION BOX	339	9.23	30.3
MK # 3	CORNER OF A WOODEN FENCE	4	6.95	22.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Q 313	Elevation by 3 Wire from USGS point 7KW, NGS E17, and NGS H17 via Job 050053, 050178, 050011, & 050012
Ref Mon # 2 FAA 7M9 A	
Ref Mon # 3 BATEPORT	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 3 20.4306984
Longitude	91 53 51.8068932
Ellipsoid Height (M):	157.467
Geoid Height (M):	-27.771

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 69 AND COLLEGE DRIVE, LOCATED IN MELBOURNE ABOUT 0.64 KM (0.40 MI) EAST OF THE IZARD COUNTY COURT HOUSE, GO NORTH ON COLLEGE DRIVE FOR 0.32 KM (0.20 MI) TO THE JUNCTION OF HALEY STREET AND THE STATION ON THE LEFT. THE STATION IS 8.60 METERS EAST OF THE CENTER OF COLLEGE STREET, 7.75 METERS SOUTH OF THE CENTER OF HALEY STREET AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "330001A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 327.345 METERS.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330002	Date Monumented 10/11/2005	Monumented By AHTD	County IZARD	Route 56	Job Number: 050012,050011,050178
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	201,002.4809	
Easting (M)	407,249.2430	
Elevation (M)*	215.846	
Northing (SFT)	659,455.6394	
Easting (SFT)	1,336,116.8914	
Elevation (SFT)*	708.155	

Convergence Angle	0	2	48.7390924
Scale Factor	0.999983742		
Elevation Adjust. Factor	0.9999661278		
Combined Adjust. Factor	0.9999498704		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 56 AND STATE HIGHWAY 9, IN BROCKWELL, GO EAST ON HIGHWAY 56 0.4 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST 13.60 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTHWEST 1.00 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "330002 2005" ON TOP OF A 1.00 METER IRON ROD DRIVEN BELOW GROUND LEVEL.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 TRI COUNTY</p> <p>Ref Mon # 2 BUTLER</p> <p>Ref Mon # 3 FAA 7M9 A</p>	<p style="text-align: center;">Comments</p> <p>3-Wire Levels ran from NGS E17 to H17 in Job 050011/050012 by S5103 in May 2006</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330002A	Date Monumented 10/11/2005	Monumented By AHTD	County IZARD	Route 9	Job Number: 050012,050011,050178
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	200,389.7250	
Easting (M)	406,800.7850	
Elevation (M)*	195.911	
Northing (SFT)	657,445.2894	
Easting (SFT)	1,334,645.5755	
Elevation (SFT)*	642.753	

Convergence Angle	0	2	38.2894889
Scale Factor	0.999982805		
Elevation Adjust. Factor	0.9999692561		
Combined Adjust. Factor	0.9999520616		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CENTER OF HEADWALL	192	37.50	123.0	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TRI COUNTY	3-Wire Levels ran from NGS E17 to H17 in Job 050011/050012 by S5103 in May 2006
Ref Mon # 2 BUTLER	
Ref Mon # 3 FAA 7M9 A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330003	Date Monumented 10/11/2005	Monumented By AHTD	County IZARD	Route 9	Job Number: 050012,050011
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	205,259.0890	
Easting (M)	406,533.7650	
Elevation (M)*	244.649	
Northing (SFT)	673,420.8612	
Easting (SFT)	1,333,769.5273	
Elevation (SFT)*	802.651	

Convergence Angle	0	2	32.1581591
Scale Factor	0.999990516		
Elevation Adjust. Factor	0.9999616081		
Combined Adjust. Factor	0.9999521245		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	FIRE HYDRANT	323	17.60	57.7	330003A
MK # 2	GUY	329	13.70	44.9	89 28 51
MK # 3					89 26 19

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TRI COUNTY Ref Mon # 2 BUTLER Ref Mon # 3 FAA 7M9 A	3-Wire Levels ran from NGS E17 to H17 in Job 050011/050012 by S5103 in May 2006

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330003A	Date Monumented 10/11/2005	Monumented By AHTD	County IZARD	Route 9	Job Number: 050012,050011
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	205,265.5090	
Easting (M)	407,189.0590	
Elevation (M)*	261.785	
Northing (SFT)	673,441.9241	
Easting (SFT)	1,335,919.4377	
Elevation (SFT)*	858.872	

Convergence Angle	0	2	47.4187439
Scale Factor	0.999990526		
Elevation Adjust. Factor	0.9999589191		
Combined Adjust. Factor	0.9999494455		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE WITH GUY	77	21.50	70.5	330003
MK # 2					269 29 07
MK # 3					269 26 19

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TRI COUNTY Ref Mon # 2 BUTLER Ref Mon # 3 FAA 7M9 A	3-Wire Levels ran from NGS E17 to H17 in Job 050011/050012 by S5103 in May 2006

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330004	Date Monumented 10/11/2005	Monumented By AHTD	County IZARD	Route 9	Job Number: 050012,050011
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	211,033.9560	
Easting (M)	406,561.3670	
Elevation (M)*	212.469	
Northing (SFT)	692,367.2373	
Easting (SFT)	1,333,860.0849	
Elevation (SFT)*	697.077	

Convergence Angle	0	2	32.9006447
Scale Factor	1.000000424		
Elevation Adjust. Factor	0.9999666577		
Combined Adjust. Factor	0.9999670817		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	299	23.20	76.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TRI COUNTY Ref Mon # 2 BUTLER Ref Mon # 3 FAA 7M9 A	3-Wire Levels ran from NGS E17 to H17 in Job 050011/050012 by S5103 in May 2006

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330004A	Date Monumented 10/11/2005	Monumented By AHTD	County IZARD	Route 9	Job Number: 050012,050011
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	210,470.9710	
Easting (M)	406,372.1090	
Elevation (M)*	223.409	
Northing (SFT)	690,520.1774	
Easting (SFT)	1,333,239.1609	
Elevation (SFT)*	732.967	

Convergence Angle	0	2	28.4808908
Scale Factor	0.999999422		
Elevation Adjust. Factor	0.9999649411		
Combined Adjust. Factor	0.9999643631		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	240	13.30	43.6	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TRI COUNTY Ref Mon # 2 BUTLER Ref Mon # 3 FAA 7M9 A	3-Wire Levels ran from NGS E17 to H17 in Job 050011/050012 by S5103 in May 2006

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330005	Date Monumented 11/8/2006	Monumented By AHTD	County IZARD	Route 9	Job Number: 050178
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	196,593.7910	
Easting (M)	406,492.6000	
Elevation (M)*	207.933	
Northing (SFT)	644,991.4626	
Easting (SFT)	1,333,634.4718	
Elevation (SFT)*	682.192	

Convergence Angle	0	2	31.0517312
Scale Factor	0.999977202		
Elevation Adjust. Factor	0.9999673697		
Combined Adjust. Factor	0.9999445724		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Brick gate post	158	12.13	39.8
MK # 2	Telephone riser	330	31.24	102.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	3-wire levels ran by crew S5103 on Feb. 20, 2007 from USGS mark 7KW. 7KW was tied from NGS marks E 17 & H 17 in jobs 050011/050012.
Ref Mon # 2 ARPG	
Ref Mon # 3 330002	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330005A	Date Monumented 11/8/2006	Monumented By AHTD	County IZARD	Route 9	Job Number: 050178
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	196,990.0099	
Easting (M)	406,386.7760	
Elevation (M)*	199.935	
Northing (SFT)	646,291.3908	
Easting (SFT)	1,333,287.2809	
Elevation (SFT)*	655.952	

Convergence Angle	0	2	28.5963540
Scale Factor	0.999977770		
Elevation Adjust. Factor	0.9999686247		
Combined Adjust. Factor	0.9999463954		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Wooden fence post	252	0.73	2.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	3-wire levels ran by crew S5103 on Feb. 20, 2007 from USGS mark 7KW. 7KW was tied from NGS marks E 17 & H 17 in jobs 050011/050012.
Ref Mon # 2 ARPG	
Ref Mon # 3 330002	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330006	Date Monumented 12/11/2008	Monumented By AHTD	County IZARD	Route NA	Job Number: 050164
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	192,782.8120	
Easting (M)	389,806.5860	
Elevation (M)*	109.197	
Northing (SFT)	632,488.2757	
Easting (SFT)	1,278,890.4409	
Elevation (SFT)*	358.257	

Convergence Angle	0	3	57.0500026
Scale Factor	0.999971931		
Elevation Adjust. Factor	0.9999828637		
Combined Adjust. Factor	0.9999547952		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Wooden gate post	38	10.45	34.3	
MK # 2	South end of a culvert	328	9.75	32.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR	
Ref Mon # 2 ARLR	
Ref Mon # 3 ARBT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330007	Date Monumented 10/19/2011	Monumented By AHTD	County Izard	Route 223	Job Number: 05_5
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Zone Arkansas South	Zone Code	Vertical Determined By:
Horizontal Datum		Elevation Datum:
Northing (M)	#Error	Geoid Datum:
Easting (M)	#Error	Latitude
Elevation (M)*		Longitude
Northing (SFT)	#Type!	Ellipsoid Height (M):
Easting (SFT)	#Type!	Geoid Height (M):
Elevation (SFT)*		

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			
Combined Adjust. Factor			#Type!

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CL of Gravel Drive	15	35.66	117.0	AZ Mark Station
MK # 2	Combo. Pole	190	17.37	57.0	Geodetic Azimuth
MK # 3	light pole	175	18.90	62.0	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330007A	Date Monumented 10/19/2011	Monumented By AHTD	County Izard	Route 223	Job Number: 05_5
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Zone Arkansas South	Zone Code	Vertical Determined By:
Horizontal Datum		Elevation Datum:
Northing (M)	#Error	Geoid Datum:
Easting (M)	#Error	Latitude
Elevation (M)*		Longitude
Northing (SFT)	#Type!	Ellipsoid Height (M):
Easting (SFT)	#Type!	Geoid Height (M):
Elevation (SFT)*		

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			
Combined Adjust. Factor			#Type!

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Asph. Drive	200	3.35	11.0	AZ Mark Station
MK # 2	fire hydrant	190	10.67	35.0	Geodetic Azimuth
MK # 3	6" Black walnut tree	0	9.14	30.0	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330008	Date Monumented 10/19/2011	Monumented By AHTD	County Izard	Route 56	Job Number: 05_5
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas South</td> <td></td> </tr> <tr> <td colspan="2">Horizontal Datum</td> </tr> <tr> <td>Northing (M)</td> <td>#Error</td> </tr> <tr> <td>Easting (M)</td> <td>#Error</td> </tr> <tr> <td>Elevation (M)*</td> <td></td> </tr> <tr> <td>Northing (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Easting (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Elevation (SFT)*</td> <td></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Convergence Angle</td> <td>###/###</td> <td>#Error</td> </tr> <tr> <td>Scale Factor</td> <td></td> <td>#Error</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td></td> <td></td> </tr> <tr> <td>Combined Adjust. Factor</td> <td></td> <td>#Type!</td> </tr> </table>	Zone	Zone Code	Arkansas South		Horizontal Datum		Northing (M)	#Error	Easting (M)	#Error	Elevation (M)*		Northing (SFT)	#Type!	Easting (SFT)	#Type!	Elevation (SFT)*		Convergence Angle	###/###	#Error	Scale Factor		#Error	Elevation Adjust. Factor			Combined Adjust. Factor		#Type!	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Vertical Determined By:</td> <td></td> </tr> <tr> <td>Elevation Datum:</td> <td></td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Location Description</td> </tr> <tr> <td> <p>Starting at the junction of highways 223 and 56 go east on 56 for 2.375 miles to the station on the right. The station is a standard alum. cap stamped(330008 2011) and is set on a 4 foot 5/8" rebar. It is 42 foot north of a witness post and 43 foot south of the CL of highway 56. Lat.36.0848 Lon.092.0436</p> </td> </tr> </table>	Vertical Determined By:		Elevation Datum:		Geoid Datum:		Latitude		Longitude		Ellipsoid Height (M):		Geoid Height (M):		Location Description	<p>Starting at the junction of highways 223 and 56 go east on 56 for 2.375 miles to the station on the right. The station is a standard alum. cap stamped(330008 2011) and is set on a 4 foot 5/8" rebar. It is 42 foot north of a witness post and 43 foot south of the CL of highway 56. Lat.36.0848 Lon.092.0436</p>
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SUPERCEDED CONTROL												
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Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
Grid Northing (Meters)												
Grid Easting (Meters)												

Location Reference Marks				
Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
MK # 1 power pole	190	12.80	42.0	
MK # 2				Geodetic Azimuth
MK # 3				Grid Azimuth

Area Reference Monuments (used for Processing)	
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330008A	Date Monumented 10/19/2011	Monumented By AHTD	County Izard	Route 56	Job Number: 05_5
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Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	End of the guard rail on the piney creek bridge	265	5.80	19.0
MK # 2	wood fence corner with gate	155	13.40	44.0
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> <p style="text-align: center; margin-top: 0;">Comments</p> </div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 330009	Date Monumented 10/19/2011	Monumented By AHTD	County Izard	Route 56	Job Number: 05_5
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Zone Arkansas South	Zone Code 	Vertical Determined By:
Horizontal Datum 		Elevation Datum:
Northing (M) 	#Error 	Geoid Datum:
Easting (M) 	#Error 	Latitude
Elevation (M)* 		Longitude
Northing (SFT) 	#Type! 	Ellipsoid Height (M):
Easting (SFT) 	#Type! 	Geoid Height (M):
Elevation (SFT)* 		

Convergence Angle 	### 	### 	#Error
Scale Factor 			#Error
Elevation Adjust. Factor 			
Combined Adjust. Factor 			#Type!

SUPERCEDED CONTROL			
Horizontal Datum 			
Latitude 			
Longitude 			
Ellipsoid Height: 			
Grid Northing (Meters) 			
Grid Easting (Meters) 			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	metal brace post for gate	5	3.05	10.0
MK # 2	center of gate	60	7.62	25.0
MK # 3	guy wire	75	15.54	51.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 	
Ref Mon # 2 	
Ref Mon # 3 	

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Station 330009A	Date Monumented 10/19/2011	Monumented By AHTD	County Izard	Route 56	Job Number: 05_5
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Zone Arkansas South	Zone Code	Vertical Determined By:
Horizontal Datum		Elevation Datum:
Northing (M)	#Error	Geoid Datum:
Easting (M)	#Error	Latitude
Elevation (M)*		Longitude
Northing (SFT)	#Type!	Ellipsoid Height (M):
Easting (SFT)	#Type!	Geoid Height (M):
Elevation (SFT)*		

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			
Combined Adjust. Factor			#Type!

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	metal brace post for gate	0	3.05	10.0	AZ Mark Station
MK # 2	center of gate	65	7.62	25.0	Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

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Station 330010	Date Monumented 10/19/2011	Monumented By AHTD	County Izard	Route 56	Job Number: 05_5
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<table style="width: 100%;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas South</td> <td></td> </tr> <tr> <td colspan="2">Horizontal Datum</td> </tr> <tr> <td>Northing (M)</td> <td>#Error</td> </tr> <tr> <td>Easting (M)</td> <td>#Error</td> </tr> <tr> <td>Elevation (M)*</td> <td></td> </tr> <tr> <td>Northing (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Easting (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Elevation (SFT)*</td> <td></td> </tr> </table> <table style="width: 100%;"> <tr> <td style="width: 50%;">Convergence Angle</td> <td>###/###</td> <td>#Error</td> </tr> <tr> <td>Scale Factor</td> <td></td> <td>#Error</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td></td> <td></td> </tr> <tr> <td>Combined Adjust. Factor</td> <td></td> <td>#Type!</td> </tr> </table>	Zone	Zone Code	Arkansas South		Horizontal Datum		Northing (M)	#Error	Easting (M)	#Error	Elevation (M)*		Northing (SFT)	#Type!	Easting (SFT)	#Type!	Elevation (SFT)*		Convergence Angle	###/###	#Error	Scale Factor		#Error	Elevation Adjust. Factor			Combined Adjust. Factor		#Type!	<table style="width: 100%;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td></td> </tr> <tr> <td>Elevation Datum:</td> <td></td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">Location Description</p> <p>Starting at the junction of highways 223 and 56 go east for 8.05 miles to the station on the right. The station is a standard alum. cap stamped (330010 2011) and is set on a 3 foot 5/8" rebar. It is 4 foot north of a witness post and 27 foot south of the CL of highway 56. Lat.36.0801 Lon.091.5854</p> </div>	Vertical Determined By:		Elevation Datum:		Geoid Datum:		Latitude		Longitude		Ellipsoid Height (M):		Geoid Height (M):	
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SUPERCEDED CONTROL												
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Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
Grid Northing (Meters)												
Grid Easting (Meters)												

Location Reference Marks				
Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
MK # 1 top (break line) of pond bank	190	8.53	28.0	
MK # 2 gravel driveway	100	57.60	189.0	
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<div style="border: 1px solid black; height: 150px; margin-top: 10px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 330010A	Date Monumented 10/19/2011	Monumented By AHTD	County Izard	Route 56	Job Number: 05_5
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Zone Arkansas South	Zone Code	Vertical Determined By:
Horizontal Datum		Elevation Datum:
Northing (M)	#Error	Geoid Datum:
Easting (M)	#Error	Latitude
Elevation (M)*		Longitude
Northing (SFT)	#Type!	Ellipsoid Height (M):
Easting (SFT)	#Type!	Geoid Height (M):
Elevation (SFT)*		

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			
Combined Adjust. Factor			#Type!

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	wood fence corner	10	3.66	12.0
MK # 2	power pole	15	17.07	56.0
MK # 3	guy wire	305	15.85	52.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

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Station 340002A	Date Monumented 11/3/1993	Monumented By AHTD	County JACKSON	Route 18	Job Number: RX0017
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 147,670.1349		Latitude 35 39 42.5291904
Easting (M) 471,447.7050		Longitude 91 12 39.1489884
Elevation (M)* 71.561		Ellipsoid Height (M):
		Geoid Height (M): -28.334

Northing (SFT) 484,481.1009		Location Description
Easting (SFT) 1,546,741.3455		<p>THE STATION IS LOCATED IN T-12-N R-2-W IN THE SE 1/4 OF THE SE 1/4 OF SECTION 20. FROM THE JCT. OF HWY. 67 AND HWY. 18 NORTH OF NEWPORT, GO EAST ON HWY. 18 FOR 2.90 KM (1.80 MILES) TO THE JCT. OF HWY. 980, TURN LEFT (NORTH) ON HWY. 18 AND GO 1.69 KM (1.05MILES) TO A SHARP CURVE AND CO. RD. NO. 43 LEADING NORTH, GO NORTH ON CO. RD. NO. 43 FOR 0.80 KM (0.50 MILES) TO A CURVE RIGHT, GO RIGHT FOR 0.80 KM (0.50 MILES) TO A CURVE LEFT, GO LEFT (NORTH) FOR 0.08 KM (0.05 MILES) TO THE STATION ON THE LEFT. THE STATION IS 8.525 METERS WEST OF THE CENTERLINE OF THE CO. RD. AND 2.0 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "34002A" AND SET ON TOP OF AN 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.20 METERS BELOW THE GROUND SURFACE.</p>
Elevation (SFT)* 234.780		
Convergence Angle 0 27 33.0887265		
Scale Factor 0.999936848		
Elevation Adjust. Factor 0.9999887699		
Combined Adjust. Factor 0.9999256186		

SUPERCEDED CONTROL			
Horizontal Datum		Latitude	
Longitude		Ellipsoid Height:	
Grid Northing (Meters)		Grid Easting (Meters)	

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NBC IN POWER POLE	180	66.22	217.3	Geodetic Azimuth	2 03 49.404779
MK # 2	NBC IN POWER POLE	3	27.99	91.8	Grid Azimuth	01 36 16.316483
MK # 3	NONE					

Area Reference Monuments (used for Processing) Ref Mon # 1 SEDGWICK Ref Mon # 2 NEWSPORT Ref Mon # 3 WALDENBURG	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

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Station 340003	Date Monumented 11/3/1993	Monumented By AHTD	County JACKSON	Route 384	Job Number: RX0017
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	148,285.8060	
Easting (M)	477,969.6800	
Elevation (M)*	71.640	
Northing (SFT)	486,501.0152	
Easting (SFT)	1,568,138.8585	
Elevation (SFT)*	235.039	

Convergence Angle	0	30	4.1051681
Scale Factor	0.999936971		
Elevation Adjust. Factor	0.9999887575		
Combined Adjust. Factor	0.9999257292		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>THE STATION IS LOCATED IN T-12-N R-1-W IN THE SW 1/4 OF THE SW 1/4 OF SECTION 18. FROM THE JCT. OF HWY. 67 AND HWY. 18 NORTH OF NEWPORT, GO EAST ON HWY. 18 FOR 2.90 KM (1.80 MILES) TO THE JCT. WITH HWY. 980, GO LEFT ON HWY. 18 AND CONTINUE ON HWY. 18 FOR 9.06 KM (5.63 MILES) TO THE JCT. WITH HWY. 384 LEADING SOUTH AND CO. RD. NO. 38 LEADING NORTH, GO LEFT (NORTH) ON CO. RD. NO. 38 FOR 1.635 KM (1.02 MILES) TO CO. RD. NO. 204 ON THE RIGHT LEADING EAST. THE STATION IS 13.48 METERS NORTH OF THE CENTERLINE OF CO. RD. NO. 204, 9.60 METERS EAST OF THE CENTERLINE OF CO. RD. NO. 38 AND 1.30 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "340003" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.20 METERS BELOW THE GROUND SURFACE.</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 SEDGWICK</p> <p>Ref Mon # 2 NEWSPORT</p> <p>Ref Mon # 3 WALDENBURG</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340003A	Date Monumented 11/3/1993	Monumented By AHTD	County JACKSON	Route 384	Job Number: RX0017
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 147,740.7960		Latitude 35 39 43.0497108
Easting (M) 477,965.3520		Longitude 91 8 19.9872024
Elevation (M)* 70.966		Ellipsoid Height (M):
Northing (SFT) 484,712.9282		Geoid Height (M): -28.344
Easting (SFT) 1,568,124.6590		
Elevation (SFT)* 232.828		

Convergence Angle 0 30 3.8947438	Scale Factor 0.999936852
Elevation Adjust. Factor 0.9999888632	Combined Adjust. Factor 0.9999257159

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
<p>THE STATION IS LOCATED IN T-12-N R-1-W IN THE SW 1/4 OF THE NW 1/4 OF SECTION 19. FROM THE JCT. OF HWY. 67 AND HWY. 18 NORTH OF NEWPORT, GO EAST ON HWY. 18 FOR 2.90 KM (1.80 MILES) TO THE JCT. WITH HWY. 980, GO LEFT (NORTH) AND CONTINUE ON HWY. 18 FOR 9.06 KM (5.63 MILES) TO THE JCT. OF HWY. 18 AND HWY. 384 LEADING SOUTH AND CO. RD. NO. 38 LEADING NORTH, TURN LEFT (NORTH) ON CO. RD. NO. 38 AND GO 1.09 KM (0.68 MI.) TO THE STATION ON THE RIGHT. THE STATION IS 8.54 METERS EAST OF THE CENTERLINE OF CO. RD. NO. 38, 8.80 METERS SOUTH OF A FIELD ROAD AND 1.30 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "34003A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.20 METERS BELOW THE GROUND SURFACE.</p>			

Location Reference Marks			
	Description	Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEDGWICK	
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 WALDENBURG	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340004	Date Monumented 11/3/1993	Monumented By AHTD	County JACKSON	Route 37	Job Number: RX0017
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 154,751.4779		Latitude 35 43 29.5274064
Easting (M) 481,399.8490		Longitude 91 6 0.8869968
Elevation (M)* 73.694		Ellipsoid Height (M):
Northing (SFT) 507,713.8071		Geoid Height (M): -28.409
Easting (SFT) 1,579,392.6713		
Elevation (SFT)* 241.778		

Convergence Angle	0	31	24.8370322
Scale Factor	0.999938936		
Elevation Adjust. Factor	0.9999884351		
Combined Adjust. Factor	0.9999273718		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN POWER POLE	15	124.15	407.3		
MK # 2	NBC IN POWER POLE	36	148.10	485.9		
MK # 3	NBC IN POWER POLE	83	155.02	508.6		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEDGWICK Ref Mon # 2 NEWSPORT Ref Mon # 3 WALDENBURG	ELEVATION (NAVD88) = 242.014 FEET. CONVERTED BY VERTCON ON 03/19/2003

AZ Mark Station	34004A
Geodetic Azimuth	271 33 52.35222
Grid Azimuth	271 02 27.48523

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340004A	Date Monumented 11/3/1993	Monumented By AHTD	County JACKSON	Route 37	Job Number: RX0017
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	154,765.1890	
Easting (M)	480,645.2510	
Elevation (M)*	73.673	
Northing (SFT)	507,758.7909	
Easting (SFT)	1,576,916.9610	
Elevation (SFT)*	241.709	

Convergence Angle	0	31	7.3679299
Scale Factor	0.999938944		
Elevation Adjust. Factor	0.9999884384		
Combined Adjust. Factor	0.9999273831		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 SEDGWICK Ref Mon # 2 NEWSPORT Ref Mon # 3 WALDENBURG	Comments ELEVATION (NAVD88) = 241.949 FEET. CONVERTED BY VERTCON ON 03/19/2003
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Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NGVD 29

Geoid Datum:

Latitude 35 43 30.1949868

Longitude 91 6 30.9078396

Ellipsoid Height (M):

Geoid Height (M): -28.407

Location Description

THE STATION IS LOCATED IN T-13-N R-1-W IN THE SE 1/4 OF THE SE 1/4 OF SECTION 29. FROM THE JCT. OF HWY. 37 AND HWY. 18 IN GRUBBS, GO NORTH ON HWY. 37 FOR 11.62 KM (7.22 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.614 METERS NORTH OF THE CENTERLINE OF HWY. 37, 15.327 METERS WEST OF THE CENTER OF A FIELD ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "34004A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

AZ Mark Station	340004
Geodetic Azimuth	91 33 34.823188
Grid Azimuth	91 02 27.485229

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340005	Date Monumented 11/3/1993	Monumented By AHTD	County JACKSON	Route CR 82	Job Number: RX0017
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 157,861.5309		Latitude 35 45 9.4844772
Easting (M) 484,552.0590		Longitude 91 3 54.2846556
Elevation (M)* 73.505		Ellipsoid Height (M):
Northing (SFT) 517,917.3726		Geoid Height (M): -28.444
Easting (SFT) 1,589,734.5469		
Elevation (SFT)* 241.158		

Convergence Angle	0	32	38.5068241
Scale Factor	0.999940239		
Elevation Adjust. Factor	0.9999884648		
Combined Adjust. Factor	0.9999287045		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description					
<p>THE STATION IS LOCATED IN T-13-N R-1W IN THE NE 1/4 OF THE NW 1/4 OF SECTION 23. FROM THE JCT. OF HWY. 37 AND HWY. 18 IN GRUBBS, GO NORTH ON HWY. 37 FOR 8.29 KM (5.15 MILES) TO A SHARP CURVE AND CO. RD. NO. 74 HEADING NORTH, TAKE CO. RD. NO. 74 AND GO NORTH FOR 3.35 KM (2.08 MILES) TO AN INTERSECTION WITH COUNTY ROAD 82, GO RIGHT (EAST) ON CO. RD.NO. 82 FOR 0.61 KM (0.38 ML.) TO THE STATION ON THE RIGHT. THE STATION IS 6.19 METERS SOUTH OF THE CENTERLINE OF CO. RD. NO. 82, 43.10 METERS SOUTHWEST OF A DRIVEWAY AND 1.0 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "340005" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN	POWER POLE	27	16.85	55.3
MK # 2	NBC IN	POWER POLE	145	15.15	49.7
MK # 3	NBC IN	POWER POLE	168	15.31	50.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEDGWICK	
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 WALDENBURG	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340005A	Date Monumented 11/3/1993	Monumented By AHTD	County JACKSON	Route CR 82	Job Number: RX0017
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	157,858.9649	
Easting (M)	483,924.7900	
Elevation (M)*	74.319	
Northing (SFT)	517,908.9540	
Easting (SFT)	1,587,676.5819	
Elevation (SFT)*	243.828	

Convergence Angle	0	32	23.9774902
Scale Factor	0.999940240		
Elevation Adjust. Factor	0.9999883371		
Combined Adjust. Factor	0.9999285778		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN POWER POLE	188	28.41	93.2		
MK # 2	NBC IN POWER SERVICE POLE	223	19.81	65.0		
MK # 3	NBC IN POWER POLE	337	17.34	56.9		

Area Reference Monuments (used for Processing) Ref Mon # 1 SEDGWICK Ref Mon # 2 NEWSPORT Ref Mon # 3 WALDENBURG	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description
THE STATION IS LOCATED IN T-13-N R-1-W IN THE NE 1/4 OF THE NE 1/4 OF SECTION 22. FROM THE JCT. OF HWY. 37 AND HWY. 18 IN GRUBBS, GO NORTH ON HWY. 37 FOR 8.29 KM (5.15 MILES) TO A SHARP CURVE AND CO. RD. NO. 74 LEADING NORTH, TAKE CO. RD. NO. 74 NORTH FOR 3.35 KM (2.08 MILES) TO THE JCT. WITH CO. RD. NO. 82 AND THE STATION ON THE LEFT. THE STATION IS 10.512 METERS WEST OF THE CENTERLINE OF CO. RD. NO. 74, 8.823 METERS SOUTH OF THE CENTER OF CO. RD. NO. 82 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "34005A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

AZ Mark Station	340005
Geodetic Azimuth	90 18 20.196618
Grid Azimuth	89 45 56.248934

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340006	Date Monumented 12/20/2002	Monumented By AHTD	County JACKSON	Route 67	Job Number: 050013
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	155,169.0950	
Easting (M)	472,459.2270	
Elevation (M)*	73.874	
Northing (SFT)	509,083.9392	
Easting (SFT)	1,550,059.9806	
Elevation (SFT)*	242.370	

Convergence Angle	0	27	57.9027018
Scale Factor	0.999939130		
Elevation Adjust. Factor	0.9999884068		
Combined Adjust. Factor	0.9999275375		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	216	14.10	46.3
MK # 2	NORTHEAST CORNER OF STORAGE BUILDING	304	16.50	54.1
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 BUTLER Ref Mon # 2 480016 Ref Mon # 3 AHTD PAR1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BY 3 WIRE FROM GPS 340004 BY JEWELL</td> </tr> </table>	Comments	ELEV. BY 3 WIRE FROM GPS 340004 BY JEWELL
Comments			
ELEV. BY 3 WIRE FROM GPS 340004 BY JEWELL			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HWY-67 AND MAIN STREET IN TUCKERMAN, GO SOUTH ON HWY-67 ONE BLOCK TO ELM STREET, TURN LEFT (EAST) ON ELM STREET AND GO ONE BLOCK TO FRONT STREET, TURN RIGHT (SOUTH) ON FRONT STREET AND GO 32.2 METERS SOUTH TO THE STATION ON THE LEFT. 6.2 METERS EAST OF THE CENTER OF FRONT STREET AND 0.50 METERS WEST OF A WITNESS POST.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340006A	Date Monumented 12/20/2002	Monumented By AHTD	County JACKSON	Route 67	Job Number: 050013
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	155,469.1970	
Easting (M)	472,627.3610	
Elevation (M)*	73.813	
Northing (SFT)	510,068.5238	
Easting (SFT)	1,550,611.6002	
Elevation (SFT)*	242.169	

Convergence Angle	0	28	1.8525879
Scale Factor	0.999939250		
Elevation Adjust. Factor	0.9999884164		
Combined Adjust. Factor	0.9999276671		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF A 24INCH CMP	66	26.30	86.3
MK # 2	POWER POLE	25	39.50	129.6
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER Ref Mon # 2 480016 Ref Mon # 3 AHTD PAR1	ELEV. BY 3 WIRE FROM GPS 340004 BY JEWELL

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340007	Date Monumented 7/31/2006	Monumented By AHTD	County JACKSON	Route 67	Job Number: 001786
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	162,912.9169	
Easting (M)	476,746.2690	
Elevation (M)*	75.408	
Northing (SFT)	534,490.1282	
Easting (SFT)	1,564,125.0509	
Elevation (SFT)*	247.400	

Convergence Angle	0	29	38.7171656
Scale Factor	0.999942923		
Elevation Adjust. Factor	0.9999881662		
Combined Adjust. Factor	0.9999310899		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	47	55.6880892
Longitude	91	9	3.2556996
Ellipsoid Height:	47.137		
Grid Northing (Meters)	162,913.2510		
Grid Easting (Meters)	476,746.2522		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	280	1.52	5.0
MK # 2	POWER POLE	218	26.52	87.0
MK # 3	FIRE HYDRANT	24	31.82	104.4

Area Reference Monuments (used for Processing) Ref Mon # 1 NEWSPORT, ARPG Ref Mon # 2 BUTLER Ref Mon # 3 160029, 160004A	Comments 340007, 340008, & 340009 ALL HAVE A DIRECT LINE OF SIGHT BETWEEN EACH OTHER. 3-Wire Levels were ran from NGS M246/RB69 RESET in Job 001786/050007/100412 in July 2006
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Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND 226, NORTH OF TUCKERMAN, GO SOUTH ON HIGHWAY 67 0.05 MILES TO THE STATION MARK ON THE RIGHT, SOUTH OF HARTSELL'S LIQUOR STORE, NORTHWEST 55.0 FEET OF THE CENTERLINE OF THE HIGHWAY, AND 5.	

AZ Mark Station	340008
Geodetic Azimuth	34 01 24
Grid Azimuth	33 31 45

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340008	Date Monumented 7/31/2006	Monumented By AHTD	County JACKSON	Route 67	Job Number: 001786
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	163,223.7740	
Easting (M)	476,952.2480	
Elevation (M)*	75.380	
Northing (SFT)	535,509.9985	
Easting (SFT)	1,564,800.8336	
Elevation (SFT)*	247.310	

Convergence Angle	0	29	43.5531175
Scale Factor	0.999943106		
Elevation Adjust. Factor	0.9999881705		
Combined Adjust. Factor	0.9999312772		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	48	5.7164616
Longitude	91	8	54.9450600
Ellipsoid Height:	47.577		
Grid Northing (Meters)	163,224.1072		
Grid Easting (Meters)	476,952.2313		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	NEWSPORT, ARPG
Ref Mon # 2	BUTLER
Ref Mon # 3	160029, 160004A

Comments
40007, 340008, & 340009 ALL HAVE A DIRECT LINE OF SIGHT BETWEEN EACH OTHER. 3-Wire Levels were ran from NGS M246/RB69 RESET in Job 001786/050007/100412 in July 2006

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340009	Date Monumented 7/31/2006	Monumented By AHTD	County JACKSON	Route 226	Job Number: 001786
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	163,018.2529	
Easting (M)	477,692.0870	
Elevation (M)*	74.207	
Northing (SFT)	534,835.7181	
Easting (SFT)	1,567,228.1221	
Elevation (SFT)*	243.460	

Convergence Angle	0	30	0.6582125
Scale Factor	0.999942980		
Elevation Adjust. Factor	0.9999883547		
Combined Adjust. Factor	0.9999313353		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	47	58.8395112
Longitude	91	8	25.5498000
Ellipsoid Height:	46.418		
Grid Northing (Meters)	163,018.5855		
Grid Easting (Meters)	477,692.0695		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	CMP		153	8.38	27.5
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	
Ref Mon # 1	NEWSPORT, ARPG
Ref Mon # 2	BUTLER
Ref Mon # 3	160029, 160004A

Comments
40007, 340008, & 340009 ALL HAVE A DIRECT LINE OF SIGHT BETWEEN EACH OTHER. 3-Wire Levels were ran from NGS M246/RB69 RESET in Job 001786/050007/100412 in July 2006

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340010	Date Monumented 7/31/2006	Monumented By AHTD	County JACKSON	Route CR 81	Job Number: 001786,100880
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas North</td> <td>301</td> </tr> <tr> <td>Horizontal Datum</td> <td>NAD 83 (1997)</td> </tr> <tr> <td>Northing (M)</td> <td>162,395.8579</td> </tr> <tr> <td>Easting (M)</td> <td>482,361.1090</td> </tr> <tr> <td>Elevation (M)*</td> <td></td> </tr> <tr> <td>Northing (SFT)</td> <td>532,793.7438</td> </tr> <tr> <td>Easting (SFT)</td> <td>1,582,546.4051</td> </tr> <tr> <td>Elevation (SFT)*</td> <td></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Convergence Angle</td> <td>0</td> <td>31</td> <td>48.7319690</td> </tr> <tr> <td>Scale Factor</td> <td colspan="3">0.999942594</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td colspan="3"></td> </tr> <tr> <td>Combined Adjust. Factor</td> <td colspan="3"></td> </tr> </table>	Zone	Zone Code	Arkansas North	301	Horizontal Datum	NAD 83 (1997)	Northing (M)	162,395.8579	Easting (M)	482,361.1090	Elevation (M)*		Northing (SFT)	532,793.7438	Easting (SFT)	1,582,546.4051	Elevation (SFT)*		Convergence Angle	0	31	48.7319690	Scale Factor	0.999942594			Elevation Adjust. Factor				Combined Adjust. Factor				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Vertical Determined By:</td> <td>NONE</td> </tr> <tr> <td>Elevation Datum:</td> <td>NONE</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td>35 47 37.2722280</td> </tr> <tr> <td>Longitude</td> <td>91 5 19.8232872</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>46.625</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-27.650</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">Location Description</p> <p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND 226, NORTH OF TUCKERMAN, GO EAST ON HIGHWAY 226 2.1 MILES TO COUNTY ROAD 81 ON THE RIGHT, TURN RIGHT AND GO 0.30 MILE TO THE STATION MARK ON THE LEFT, 22.0 FEET EAST OF THE CENTERLINE OF</p> </div>	Vertical Determined By:	NONE	Elevation Datum:	NONE	Geoid Datum:		Latitude	35 47 37.2722280	Longitude	91 5 19.8232872	Ellipsoid Height (M):	46.625	Geoid Height (M):	-27.650
Zone	Zone Code																																																
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Ellipsoid Height (M):	46.625																																																
Geoid Height (M):	-27.650																																																

SUPERCEDED CONTROL				
Horizontal Datum	NAD 83 (1986)			
Latitude	35	47	37.2828084	
Longitude	91	5	19.8242412	
Ellipsoid Height:	46.514			
Grid Northing (Meters)	162,396.1838			
Grid Easting (Meters)	482,361.0820			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	WELL HEAD	74	30.57	100.3		
MK # 2	POWER POLE WITH GUY	321	17.37	57.0		
MK # 3						

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 NEWSPORT, ARPG</p> <p>Ref Mon # 2 BUTLER</p> <p>Ref Mon # 3 160029, 160004A</p>	<div style="border: 1px solid black; padding: 5px; min-height: 100px;"> <p style="text-align: center;">Comments</p> </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340010A	Date Monumented 7/31/2006	Monumented By AHTD	County JACKSON	Route 226	Job Number: 001786
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	162,879.5150	
Easting (M)	482,484.2920	
Elevation (M)*		
Northing (SFT)	534,380.5421	
Easting (SFT)	1,582,950.5480	
Elevation (SFT)*		

Convergence Angle	0	31	51.6904736
Scale Factor	0.999942873		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	47	52.9385604
Longitude	91	5	14.7399792
Ellipsoid Height:	47.076		
Grid Northing (Meters)	162,879.8419		
Grid Easting (Meters)	482,484.2660		

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND 226, NORTH OF TUCKERMAN, GO EAST ON HIGHWAY 226 2.1 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 91.3 FEET OF THE CENTERLINE OF THE HIGHWAY, 33.1 FEET EAST OF COUNTY ROAD 81 AND 1.5 FE</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 NEWSPORT, ARPG</p> <p>Ref Mon # 2 BUTLER</p> <p>Ref Mon # 3 160029, 160004A</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340011	Date Monumented 12/27/2010	Monumented By AHTD	County Jackson	Route 367	Job Number: 005836
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	141,897.8150	
Easting (M)	461,707.5250	
Elevation (M)*	71.249	
Northing (SFT)	465,543.0814	
Easting (SFT)	1,514,785.4383	
Elevation (SFT)*	233.758	

Convergence Angle	0	23	46.8136766
Scale Factor	0.999936040		
Elevation Adjust. Factor	0.9999888188		
Combined Adjust. Factor	0.9999248595		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Northwest corner of a bridge	183	2.43	8.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	Elev. was est. by crew S5102 in Jan. 11 from NGS mark B9 during Job 005836. The loop is open and needs to be closed to another NGS mark.
Ref Mon # 2 ARLR	
Ref Mon # 3 Newport	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340011A	Date Monumented 12/27/2010	Monumented By AHTD	County Jackson	Route 14	Job Number: 005836
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	142,456.9930	
Easting (M)	461,052.0110	
Elevation (M)*	68.636	
Northing (SFT)	467,377.6512	
Easting (SFT)	1,512,634.8061	
Elevation (SFT)*	225.184	

Convergence Angle	0	23	31.7457203
Scale Factor	0.999936084		
Elevation Adjust. Factor	0.9999892289		
Combined Adjust. Factor	0.9999253135		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	99	14.63	48.0
MK # 2	power pole with guy wire	43	18.29	60.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	Elev. was est. by crew S5102 in Jan. 11 from NGS mark B9 during Job 005836. The loop is open and needs to be closed to another NGS mark.
Ref Mon # 2 ARLR	
Ref Mon # 3 Newport	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340012	Date Monumented 12/27/2010	Monumented By AHTD	County Jackson	Route NA	Job Number: 005836
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	141,193.1210
Easting (M)	464,555.2300
Elevation (M)*	68.900
Northing (SFT)	463,231.0978
Easting (SFT)	1,524,128.2838
Elevation (SFT)*	226.049

Convergence Angle	0 24 52.5387285
Scale Factor	0.999935994
Elevation Adjust. Factor	0.9999891875
Combined Adjust. Factor	0.9999251822

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	154	4.88	16.0
MK # 2	18 inch RCP	175	4.57	15.0
MK # 3	Combination pole with arm	76	10.67	35.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARLR Ref Mon # 3 ewsport	Elev. was est. by crew S5102 in Jan. 11 from NGS mark B9 during Job 005836. The loop is open and needs to be closed to another NGS mark.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340012A	Date Monumented 12/27/2010	Monumented By AHTD	County Jackson	Route NA	Job Number: 005836
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	141,419.3260
Easting (M)	464,850.7040
Elevation (M)*	69.531
Northing (SFT)	463,973.2387
Easting (SFT)	1,525,097.6847
Elevation (SFT)*	228.120

Convergence Angle	0 24 59.4079646
Scale Factor	0.999936007
Elevation Adjust. Factor	0.9999890884
Combined Adjust. Factor	0.9999250961

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole with guy wire	115	10.97	36.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	Elev. was est. by crew S5102 in Jan. 11 from NGS mark B9 during Job 005836. The loop is open and needs to be closed to another NGS mark.
Ref Mon # 2 ARLR	
Ref Mon # 3 Newport	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340013	Date Monumented 4/23/2012	Monumented By AHTD	County Jackson	Route 14	Job Number: 050272
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	136,838.2610	
Easting (M)	476,301.9734	
Elevation (M)*	69.033	
Northing (SFT)	448,943.5280	
Easting (SFT)	1,562,667.3911	
Elevation (SFT)*	226.486	

Convergence Angle	0	29	23.2544940
Scale Factor	0.999935998		
Elevation Adjust. Factor	0.9999891666		
Combined Adjust. Factor	0.9999251653		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	CP		175	3.00	9.8
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARPG Ref Mon # 3 ZME1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN BY CREW S5102 DURING JOB 050272 FROM NGS BMS M 16 AND D 9 IN APRIL 2012.</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN BY CREW S5102 DURING JOB 050272 FROM NGS BMS M 16 AND D 9 IN APRIL 2012.
Comments			
DIGITAL LEVELS WERE RAN BY CREW S5102 DURING JOB 050272 FROM NGS BMS M 16 AND D 9 IN APRIL 2012.			

Vertical Determined By: 3rd Order - Digital Levels

Elevation Datum: NAVD 88

Geoid Datum: GEOID96

Latitude 35 33 49.7578608

Longitude 91 9 29.8279152

Ellipsoid Height (M): 41.641

Geoid Height (M): -27.394

Location Description

To reach the station from the post office in Amagon go west on highway 14 for 2.8 miles to the station on the left at the intersection of highway 14 and county road 145. 32.0 feet east of the center of county road 145, 40 feet south of the center of highway 14 and 2 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "340013 2012" set on top of a 5/8 inch by 4 foot long rebar and is .20 feet below the ground.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340013A	Date Monumented 4/23/2012	Monumented By AHTD	County Jackson	Route 14	Job Number: 050272
---------------------------	-------------------------------------	------------------------------	--------------------------	--------------------	------------------------------

Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	136,903.5890	
Easting (M)	476,850.1687	
Elevation (M)*	67.430	
Northing (SFT)	449,157.8582	
Easting (SFT)	1,564,465.9285	
Elevation (SFT)*	221.226	

Convergence Angle	0	29	35.9350568
Scale Factor	0.999935995		
Elevation Adjust. Factor	0.9999894182		
Combined Adjust. Factor	0.9999254139		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL field entrance	263	8.00	26.2
MK # 2	power pole	356	1.25	4.1
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARBT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARPG</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ZME1 / NEWSPORT</td> </tr> </table>	Ref Mon # 1	ARBT	Ref Mon # 2	ARPG	Ref Mon # 3	ZME1 / NEWSPORT	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN BY CREW S5102 DURING JOB 050272 FROM NGS BMS M 16 AND D 9 IN APRIL 2012.</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN BY CREW S5102 DURING JOB 050272 FROM NGS BMS M 16 AND D 9 IN APRIL 2012.
Ref Mon # 1	ARBT								
Ref Mon # 2	ARPG								
Ref Mon # 3	ZME1 / NEWSPORT								
Comments									
DIGITAL LEVELS WERE RAN BY CREW S5102 DURING JOB 050272 FROM NGS BMS M 16 AND D 9 IN APRIL 2012.									

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID96
Latitude	35 33 51.7249908
Longitude	91 9 8.0362296
Ellipsoid Height (M):	40.037
Geoid Height (M):	-27.396

Location Description
<p>To reach the station from the post office in Amagon go west on HWY-14 for 2.45 miles to the station on the right. 42.6 feet north of the center of HWY-14, 26.3 feet east of a field entrance and 4 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "340013A 2012" set on top of a 5/8 inch by 4 foot rebar and is 0.20 feet below the surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340014	Date Monumented 4/23/2012	Monumented By AHTD	County Jackson	Route 14	Job Number: 050272
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	136,130.5942	
Easting (M)	481,523.3994	
Elevation (M)*	68.569	
Northing (SFT)	446,621.7911	
Easting (SFT)	1,579,798.0195	
Elevation (SFT)*	224.964	

Convergence Angle	0	31	23.7600514
Scale Factor	0.999936048		
Elevation Adjust. Factor	0.9999892394		
Combined Adjust. Factor	0.9999252881		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	264	1.30	4.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARPG Ref Mon # 3 ZME1 / Newport	DIGITAL LEVELS WERE RAN BY CREW S5102 DURING JOB 050272 FROM NGS BMS M 16 AND D 9 IN APRIL 2012.

Location Description	
To reach the station from the post office in Amagon go east on HWY-14 for 0.50 miles to county road 104 on the right, turn right (south) on CR 104 and go 0.55 miles to the station on the right near a power pole. 14.75 feet west of the center of the road and 4.26 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "340014 2012" set on top of a 5/8 inch by 4 foot long rebar and is 0.10 feet below the surface.	

AZ Mark Station	340014A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340014A	Date Monumented 4/23/2012	Monumented By AHTD	County Jackson	Route 14	Job Number: 050272
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	136,617.4965	
Easting (M)	481,782.8255	
Elevation (M)*	69.287	
Northing (SFT)	448,219.2364	
Easting (SFT)	1,580,649.1533	
Elevation (SFT)*	227.320	

Convergence Angle	0	31	29.8573527
Scale Factor	0.999936014		
Elevation Adjust. Factor	0.9999891267		
Combined Adjust. Factor	0.9999251414		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ZME1 / Newport

Comments
DIGITAL LEVELS WERE RAN BY CREW S5102 DURING JOB 050272 FROM NGS BMS M 16 AND D 9 IN APRIL 2012.

Location Description	
to reach the station from the post office in Amagon go east on HWY-14 for 0.65 miles to the station on the right, 42 feet south of the center of the highway, 20 feet east of a field entrance and 3.2 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "340014A 2012" set on top of a 5/8 inch by 4 foot long rebar and is 0.15 feet below the surface.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350001	Date Monumented 6/20/1990	Monumented By AHTD	County JEFFERSON	Route 65	Job Number: 20071,020716
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	572,190.1169	0.0030			
Easting (M)	403,221.0793	0.0030			
Elevation (M)*					
Northing (SFT)	1,877,260.4085				
Easting (SFT)	1,322,901.1577				
Elevation (SFT)*					

Convergence Angle	0	1	10.4376062
Scale Factor	0.999923647		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	13	8.9370336
Longitude	91	57	54.1449900
Ellipsoid Height:	36.777		
Grid Northing (Meters)	572,190.3779		
Grid Easting (Meters)	403,221.1830		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM Ref Mon # 2 ARGS Ref Mon # 3 ARLR, ARMO, ARPB	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> Old point number 90350001 SUPERCEDED GEOID HT. -26.655m SUPERCEDED AREA REFERENCE MONUMENTS CORPS. OF ENG. 4125 CORPS. OF ENG. 4128 AND CORPS. OF ENG. 3063 </td> </tr> </table>	Comments	Old point number 90350001 SUPERCEDED GEOID HT. -26.655m SUPERCEDED AREA REFERENCE MONUMENTS CORPS. OF ENG. 4125 CORPS. OF ENG. 4128 AND CORPS. OF ENG. 3063
Comments			
Old point number 90350001 SUPERCEDED GEOID HT. -26.655m SUPERCEDED AREA REFERENCE MONUMENTS CORPS. OF ENG. 4125 CORPS. OF ENG. 4128 AND CORPS. OF ENG. 3063			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	Geoid 18
Latitude	34 13 8.9285628
Longitude	91 57 54.1490472
Ellipsoid Height (M):	37.352 0.0070
Geoid Height (M):	-25.982 0.0070

Location Description
ON HWY. 65 AT PINE BLUFF, THE STATION IS 71 FEET EAST OF THE CENTERLINE OF THE NORTHBOUND LANES, 4 FEET WEST OF A WITNESS POST, 9 FEET NORTH AND 24 FEET WEST OF A R/W MARKER.

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350002	Date Monumented 6/20/1990	Monumented By AHTD	County JEFFERSON	Route 65	Job Number: 20071,020716
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	571,820.6026	0.0030
Easting (M)	403,212.3751	0.0030
Elevation (M)*		

Northing (SFT)	1,876,048.0937	
Easting (SFT)	1,322,872.6006	
Elevation (SFT)*		

Convergence Angle	0	1	10.2445156
Scale Factor	0.999923462		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	12	56.9440152
Longitude	91	57	54.4902552
Ellipsoid Height:	36.382		
Grid Northing (Meters)	571,820.8639		
Grid Easting (Meters)	403,212.4720		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARGS Ref Mon # 3 ARLR, ARMO, ARPB	Old point number 90350002 SUPERCEDED GEOID HT. -26.652m SUPERCEDED AREA REFERENCE MONUMENTS CORPS. OF ENG. 4125 CORPS. OF ENG. 4128 AND CORPS. OF ENG. 3063

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350003	Date Monumented 6/20/1990	Monumented By AHTD	County JEFFERSON	Route 63	Job Number: 20071
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	575,237.9379	
Easting (M)	408,695.1730	
Elevation (M)*		
Northing (SFT)	1,887,259.8013	
Easting (SFT)	1,340,860.7468	
Elevation (SFT)*		

Convergence Angle	0	3	10.2048780
Scale Factor	0.999925301		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
AT LOCK AND DAM NO. 4 NEAR THE SOUTHWEST CORNER OF A CONCRETE PARKING LOT, THE STATION IS 7.5 FEET NORTH OF A WITNESS POST AND 2 FEET WEST OF THE EDGE OF THE CONCRETE PARKING LOT.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE	0	0.00	0.0	
MK # 2	NONE	0	0.00	0.0	
MK # 3	NONE	0	0.00	0.0	

Area Reference Monuments (used for Processing) Ref Mon # 1 CORPS. OF ENG. 4125 Ref Mon # 2 CORPS. OF ENG. 4128 Ref Mon # 3 CORPS. OF ENG. 3063	Comments Old point number 90350003
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350004	Date Monumented 6/20/1990	Monumented By AHTD	County JEFFERSON	Route 66	Job Number: 20071
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	575,338.1080	
Easting (M)	409,172.1440	
Elevation (M)*		
Northing (SFT)	1,887,588.4427	
Easting (SFT)	1,342,425.6091	
Elevation (SFT)*		

Convergence Angle	0	3	20.6406319
Scale Factor	0.999925359		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NONE	0	0.00		0.0	
MK # 2	NONE	0	0.00		0.0	
MK # 3	NONE	0	0.00		0.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CORPS. OF ENG. 4125	Old point number 90350004
Ref Mon # 2 CORPS. OF ENG. 4128	
Ref Mon # 3 CORPS. OF ENG. 3063	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 14 50.9739000
Longitude	91 54 1.5151500
Ellipsoid Height (M):	33.855
Geoid Height (M):	-26.700

Location Description
<p>AT PINE BLUFF ON THE EAST SIDE OF LOCK AND DAM NO. 4, AT THE CORPS OF ENGINEERS PARK, THE STATION IS WEST OF THE FIRST PARKING AREA AND SOUTH OF THE LOCK BETWEEN TWO PICNIC TABLES.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350005	Date Monumented 6/21/1990	Monumented By AHTD	County JEFFERSON	Route 79	Job Number: 20071
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Zone	Zone Code	Vertical Determined By:
Arkansas South	302	NONE
Horizontal Datum	Elevation Datum:	
NAD 83 (1986)	NONE	
Geoid Datum:		
Northing (M)	583,792.3959	Latitude
Easting (M)	412,643.4460	34 19 25.2352416
Elevation (M)*		Longitude
		91 51 45.3991680
Northing (SFT)	1,915,325.5522	Ellipsoid Height (M):
Easting (SFT)	1,353,814.3724	37.138
Elevation (SFT)*		Geoid Height (M):
		-26.782

Convergence Angle	0	4	36.8234794
Scale Factor	0.999931170		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CORPS. OF ENG. 4125	Old point number 90350005
Ref Mon # 2 CORPS. OF ENG. 4128	
Ref Mon # 3 CORPS. OF ENG. 3063	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350006	Date Monumented 6/21/1990	Monumented By AHTD	County JEFFERSON	Route 79	Job Number: 20071
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	584,040.5319	
Easting (M)	412,922.8260	
Elevation (M)*		
Northing (SFT)	1,916,139.6451	
Easting (SFT)	1,354,730.9716	
Elevation (SFT)*		

Convergence Angle	0	4	42.9478437
Scale Factor	0.999931367		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE	0	0.00	0.0	AZ Mark Station	90350005
MK # 2	NONE	0	0.00	0.0	Geodetic Azimuth	228 28 05
MK # 3	NONE	0	0.00	0.0	Grid Azimuth	228 23 22

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CORPS. OF ENG. 4125	Old point number 90350006
Ref Mon # 2 CORPS. OF ENG. 4128	
Ref Mon # 3 CORPS. OF ENG. 3063	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350007	Date Monumented 3/23/1995	Monumented By AHTD	County JEFFERSON	Route 63	Job Number: 001930, RX0025, 020353
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	563,168.7350
Easting (M)	400,979.1590
Elevation (M)*	65.238
Northing (SFT)	1,847,662.7581
Easting (SFT)	1,315,545.7908
Elevation (SFT)*	214.034

Convergence Angle	0	0	21.3914996
Scale Factor	0.999920091		
Elevation Adjust. Factor	0.9999897622		
Combined Adjust. Factor	0.9999098540		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END CORRIGATED METAL PIPE	207	6.70	22.0
MK # 2	TELEPHONE JUNCTION BOX	171	24.20	79.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124	
Ref Mon # 2 AHTD LITTLE ROCK	
Ref Mon # 3 AHTD MON 1	

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 8 16.1402748
Longitude	91 59 21.7797828
Ellipsoid Height (M):	38.438
Geoid Height (M):	-25.785

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF I 530 AND U.S. HIGHWAY 63, LOCATED ON THE SOUTH SIDE OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 63 FOR 4.136 KM (2.57 MI) TO THE STATION ON THE LEFT. THE STATION IS 1.15 METERS WEST OF THE EDGE OF AN ASPHALT PARKING LOT FOR A USED CAR LOT, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350007 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO "HARN" IN FEBRUARY OF 2002.</p>

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350007A	Date Monumented 3/23/1995	Monumented By AHTD	County JEFFERSON	Route 15	Job Number: RX0025
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	562,812.6449	
Easting (M)	400,921.0900	
Elevation (M)*	65.409	
Northing (SFT)	1,846,494.4858	
Easting (SFT)	1,315,355.2761	
Elevation (SFT)*	214.596	

Convergence Angle	0	0	20.1221191
Scale Factor	0.999919992		
Elevation Adjust. Factor	0.9999897353		
Combined Adjust. Factor	0.9999097281		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	GAS METER		285	1.50	4.9
MK # 2	NORTHEAST CORNER OF BUILDING		215	17.50	57.4
MK # 3	16" CONCRETE CULVERT		150	4.50	14.8

Area Reference Monuments (used for Processing) Ref Mon # 1 TARRY Ref Mon # 2 93400004 AHTD Ref Mon # 3 GLEN LAKE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350010	Date Monumented 4/17/1995	Monumented By AHTD	County JEFFERSON	Route N/A	Job Number: R20051
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	568,402.1710	
Easting (M)	395,412.5040	
Elevation (M)*	66.200	
Northing (SFT)	1,864,832.7894	
Easting (SFT)	1,297,282.5235	
Elevation (SFT)*	217.191	

Convergence Angle	0	1	40.2777283
Scale Factor	0.999921909		
Elevation Adjust. Factor	0.9999896112		
Combined Adjust. Factor	0.9999115210		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	10" PINE TREE		20.60	67.6		350010A
MK # 2	GUY POLE		4.55	14.9		313 18 19.14554
MK # 3	NONE					313 19 59.40178

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 PINE BLUFF	
Ref Mon # 2 130008 AHTD	
Ref Mon # 3 GLEN LAKE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350010A	Date Monumented 4/17/1995	Monumented By AHTD	County JEFFERSON	Route N/A	Job Number: R20051
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	568,874.3210	
Easting (M)	394,912.0520	
Elevation (M)*	71.911	
Northing (SFT)	1,866,381.8348	
Easting (SFT)	1,295,640.6239	
Elevation (SFT)*	235.928	

Convergence Angle	0	1	51.2226339
Scale Factor	0.999922106		
Elevation Adjust. Factor	0.9999887149		
Combined Adjust. Factor	0.9999108218		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	4" WOODEN BRACE POST		6.45	21.2	
MK # 2	CROSSTIE GATE POST		31.00	101.7	
MK # 3	POWER POLE		5.65	18.5	

Area Reference Monuments (used for Processing) Ref Mon # 1 GLEN LAKE Ref Mon # 2 130008 AHTD Ref Mon # 3 PINE BLUFF	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	34 11 21.2825976
Longitude	92 3 18.7216092
Ellipsoid Height (M):	45.293
Geoid Height (M):	-26.618

Location Description
FROM THE JCT. OF HWY. 79 (CAMDEN ROAD) AND 28TH STREET IN PINE BLUFF, GO SOUTH ON HWY. 79 FOR 1.44 KM (0.90 MILES) TO THE JCT. WITH THE NEW HWY. 65 BYPASS THAT IS CURRENTLY UNDER CONSTRUCTION, TURN LEFT ON THE NEW BYPASS AND GO EAST FOR 0.72 KM (0.45 MILES) TO THE STATION ON THE RIGHT AT THE TOP OF THE BACK SLOPE OF THE ROAD DITCH ON AN OLD ASPHALT DRIVE. THE STATION IS 6.45 METERS NORTHEAST OF A WOODEN BRACE POST, 31.0 METERS NORTHWEST OF A CROSSTIE GATE POST AND 5.0 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "350010A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

AZ Mark Station	350010
Geodetic Azimuth	133 18 08.15747
Grid Azimuth	133 19 59.40178

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350011	Date Monumented 4/17/1995	Monumented By AHTD	County JEFFERSON	Route N/A	Job Number: R20051
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 568,143.9819		Latitude 34 10 57.6001884
Easting (M) 396,378.5130		Longitude 92 2 21.4346328
Elevation (M)* 65.072		Ellipsoid Height (M): 38.542
		Geoid Height (M): -26.616

Northing (SFT) 1,863,985.7140		
Easting (SFT) 1,300,451.8381		
Elevation (SFT)* 213.490		

Convergence Angle 0 1 19.1596468		
Scale Factor 0.999921804		
Elevation Adjust. Factor 0.9999897882		
Combined Adjust. Factor 0.9999115930		

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Description

FROM THE JCT. OF HWY. 15 (OLIVE ST.) AND 27TH STREET IN PINE BLUFF, GO WEST ON 27TH STREET FOR 1.609 KM (1.0 MILES) TO THE JCT. OF 27TH AND HAZEL STREETS, TURN LEFT AND SOUTH ON HAZEL STREET AND GO 0.43 KM (0.27 MILES) TO A JCT. WITH 31ST STREET, TURN RIGHT AND WEST ON 31ST STREET AND GO 0.48 KM (0.30 MILES) TO THE JCT. WITH "OLD WARREN ROAD", BEAR LEFT ON "OLD WARREN ROAD" AND GO 1.93 KM (1.20 MILES) TO THE STATION ON THE LEFT AT THE SOUTH EAST CORNER OF A BRIDGE OVER BAYOU BARTHOLOMEW. THE STATION IS 3.65 METERS SOUTHEAST OF THE BRIDGE END, 10.3 METERS EAST OF THE CENTER OF "OLD WARREN ROAD" AND 13.3 METERS SOUTHWEST OF A FENCE CORNER. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "350011" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	FENCE CORNER			13.30	43.6
MK # 2	BRIDGE END			3.65	12.0
MK # 3	7TH GUARD RAIL POST FROM BRIDGE END			1.70	5.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 GLEN LAKE Ref Mon # 2 130008 AHTD Ref Mon # 3 PINE BLUFF	NGVD29 = 65.158 meters

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350011A	Date Monumented 4/17/1995	Monumented By AHTD	County JEFFERSON	Route 1530	Job Number: R20051
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	567,905.4859	
Easting (M)	396,109.7150	
Elevation (M)*	69.463	
Northing (SFT)	1,863,203.2483	
Easting (SFT)	1,299,569.9566	
Elevation (SFT)*	227.897	

Convergence Angle	0	1	25.0329723
Scale Factor	0.999921708		
Elevation Adjust. Factor	0.9999890991		
Combined Adjust. Factor	0.9999108080		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE		23.50	77.1
MK # 2	CONCRETE PIPE		8.90	29.2
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 GLEN LAKE	NGVD29 = 69.549 meters
Ref Mon # 2 130008 AHTD	
Ref Mon # 3 PINE BLUFF	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 10 49.8559224
Longitude	92 2 31.9285104
Ellipsoid Height (M):	42.934
Geoid Height (M):	-26.615

Location Description
<p>FROM THE JCT. OF HWY. 15 (OLIVE STREET) AND 27TH STREET IN PINE BLUFF, GO WEST ON 27TH STREET FOR 1.609 KM (1.0 MILES) TO THE JCT. WITH HAZEL STREET, TURN LEFT AND SOUTH ON HAZEL STREET AND GO 0.43 KM (0.27 MILES) TO THE JCT. WITH 31TH STREET, GO RIGHT AND WEST ON 31TH STREET FOR 0.48 KM (0.30 MILES) TO THE JCT. WITH "OLD WARREN ROAD", BEAR LEFT AND SOUTH ON "OLD WARREN ROAD" AND GO 2.28 KM (1.42 MILES) TO THE STATION ON THE LEFT AT THE JUNCTION OF "BOBO ROAD" AND "OLD WARREN ROAD". THE STATION IS 13.3 METERS NORTH OF THE CENTER OF "BOBO ROAD", 19.3 METERS WEST OF THE CENTER OF "OLD WARREN ROAD" AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "350011A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350012	Date Monumented 7/19/1995	Monumented By AHTD	County JEFFERSON	Route 65	Job Number: R20091
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	559,948.2149	
Easting (M)	422,544.1750	
Elevation (M)*	57.504	
Northing (SFT)	1,837,096.7684	
Easting (SFT)	1,386,297.0141	
Elevation (SFT)*	188.661	

Convergence Angle	0	8	12.3494196
Scale Factor	0.999919303		
Elevation Adjust. Factor	0.9999909758		
Combined Adjust. Factor	0.9999102796		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	TARRY 1940
Ref Mon # 2	DIST2 1995
Ref Mon # 3	NONE

Comments
THE ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING STATION "W 289 1984".

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 6 30.7399428
Longitude	91 45 20.3187204
Ellipsoid Height (M):	30.834
Geoid Height (M):	-26.670

Location Description
<p>FROM THE POST OFFICE IN THE SMALL VILLAGE OF GRADY, GO NORTH ON HWY. 65 FOR 3.058 KM (1.90 MILES) TO THE LINCOLN-JEFFERSON COUNTY LINE, CONTINUE NORTH ON HWY. 65 FOR 3.219 KM (2.0 MILES) TO THE STATION ON THE LEFT JUST BEFORE REACHING THE TAMO WATER TOWER. THE STATION IS 29.70 METERS EAST OF THE EASTERN MOSTRAIL OF THE MISSOURI PACIFIC RAILROAD, 17.50 METERS WEST OF THE CENTER OF HWY. 65 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "350012 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.20 METERS BELOW THE SURFACE.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350012A	Date Monumented 7/19/1995	Monumented By AHTD	County JEFFERSON	Route 65	Job Number: R20091
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	560,616.5040	
Easting (M)	422,076.6380	
Elevation (M)*	58.025	
Northing (SFT)	1,839,289.3135	
Easting (SFT)	1,384,763.1032	
Elevation (SFT)*	190.370	

Convergence Angle	0	8	2.1728849
Scale Factor	0.999919444		
Elevation Adjust. Factor	0.9999908941		
Combined Adjust. Factor	0.9999103388		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18" METAL PIPE	160	15.20	49.9
MK # 2	POWER POLE	327	16.50	54.1
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 TARRY 1940 Ref Mon # 2 DIST2 1995 Ref Mon # 3 NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> THE ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS FROM STATION "W 289 1984". </td> </tr> </table>	Comments	THE ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS FROM STATION "W 289 1984".
Comments			
THE ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS FROM STATION "W 289 1984".			

Location Description
FROM THE POST OFFICE IN THE SMALL TOWN OF GRADY, GO NORTH ON HWY. 65 FOR 3.058 KM (1.90 MILES) TO THE LINCOLN-JEFFERSON COUNTY LINE, CONTINUE NORTH ON HWY. 65 FOR 4.023 KM (2.50 MILES) TO THE STATION ON THE RIGHT JUST PAST THE "TAMO RIVER ROAD". THE STATION IS 17.10 METERS NORTHEAST OF THE CENTER OF HWY. 65, 16.80 METERS SOUTHEAST OF NOAA BENCH MARK "W 289 1984", 10.0 METERS WEST OF THE CENTER OF "TAMO RIVER ROAD" AND 1.35 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "350012A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350013	Date Monumented 5/29/1996	Monumented By AHTD	County JEFFERSON	Route 425	Job Number: R20149
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	562,998.9205	
Easting (M)	408,852.9964	
Elevation (M)*	60.402	
Northing (SFT)	1,847,105.6250	
Easting (SFT)	1,341,378.5390	
Elevation (SFT)*	198.169	

Convergence Angle	0	3	13.4061901
Scale Factor	0.999920043		
Elevation Adjust. Factor	0.9999905210		
Combined Adjust. Factor	0.9999105648		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	156	18.65	61.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	DIST2
Ref Mon # 2	GLEN LAKE 1940
Ref Mon # 3	93400003

Comments

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 8 10.4955396
Longitude	91 54 14.4409356
Ellipsoid Height (M):	33.691
Geoid Height (M):	-26.625

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-65 AND HWY-425 ABOUT 6.92 KM. (4.30 MI.) EAST OF PINE BLUFF, GO SOUTH ON HWY-425 FOR 7.08 KM. (4.40 MI.) TO THE STATION ON THE RIGHT. 14.10 METERS SOUTH-SOUTHWEST OF THE CENTER OF HWY-425 AND 0.50 METERS NORTH-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350013 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350013A	Date Monumented 5/29/1996	Monumented By AHTD	County JEFFERSON	Route 425	Job Number: R20149
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	563,377.2799	
Easting (M)	408,427.5580	
Elevation (M)*	60.386	
Northing (SFT)	1,848,346.9591	
Easting (SFT)	1,339,982.7465	
Elevation (SFT)*	198.116	

Convergence Angle	0	3	4.1192721
Scale Factor	0.999920150		
Elevation Adjust. Factor	0.9999905236		
Combined Adjust. Factor	0.9999106743		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	GUY POLE	292	36.45	119.6	350013
MK # 2	CENTER OF CONCRETE HEADWALL	332	43.33	142.2	131 41 56.8097
MK # 3					131 38 52.7029

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 DIST2	
Ref Mon # 2 GLEN LAKE 1940	
Ref Mon # 3 93400003	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350014	Date Monumented 10/26/1998	Monumented By AHTD	County JEFFERSON	Route 79	Job Number: 2807
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	581,131.7529	
Easting (M)	401,659.2300	
Elevation (M)*	64.825	
Northing (SFT)	1,906,596.4260	
Easting (SFT)	1,317,776.9904	
Elevation (SFT)*	212.680	

Convergence Angle	0	0	36.3179801
Scale Factor	0.999929156		
Elevation Adjust. Factor	0.9999898269		
Combined Adjust. Factor	0.9999189837		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF CONCRETE HEADWALL	69	22.36	73.4
MK # 2	WEST END OF CMP	58	34.00	111.5
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	AHTD LR1
Ref Mon # 2	ALMYPORT AZ MK
Ref Mon # 3	K 124

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350014A	Date Monumented 10/26/1998	Monumented By AHTD	County JEFFERSON	Route 79	Job Number: 2807
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	580,883.2999	
Easting (M)	401,232.5420	
Elevation (M)*	65.141	
Northing (SFT)	1,905,781.2931	
Easting (SFT)	1,316,377.0982	
Elevation (SFT)*	213.717	

Convergence Angle	0	0	26.9777280
Scale Factor	0.999928977		
Elevation Adjust. Factor	0.9999897774		
Combined Adjust. Factor	0.9999187551		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE NORTHEAST END OF THE U.S. HIGHWAY 79 BRIDGE OVER THE ARKANSAS RIVER, LOCATED ABOUT 3.00 KM (1.86 MI) NORTH OF PINE BLUFF, GO NORTHEAST ON U.S. HIGHWAY 79 FOR 0.89 KM (0.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.72 METERS NORTHWEST OF A GUARD RAIL SET IN THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350014A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 AHTD LR1</p> <p>Ref Mon # 2 ALMYPORT AZ MK</p> <p>Ref Mon # 3 K 124</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350015	Date Monumented 1/16/2002	Monumented By AHTD	County JEFFERSON	Route N/A	Job Number: 001930, 020353
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	559,680.5450	
Easting (M)	403,382.4030	
Elevation (M)*	60.318	
Northing (SFT)	1,836,218.5881	
Easting (SFT)	1,323,430.4338	
Elevation (SFT)*	197.893	

Convergence Angle	0	1	13.8674205
Scale Factor	0.999919255		
Elevation Adjust. Factor	0.9999905342		
Combined Adjust. Factor	0.9999097900		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I 530 AND U.S. HIGHWAY 63 LOCATED ON THE SOUTH SIDE OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 63 FOR 8.288 KM (5.15 MI) TO PINEBERGEN ROAD ON THE LEFT. TURN LEFT (EAST) ON PINEBERGEN ROAD AND GO EAST ON PINEBERGEN ROAD FOR 3.042 KM (1.89 MI) TO THE JUNCTION OF PINEBERGEN ROAD AND GIBB ANDERSON ROAD AND THE STATION DIRECTLY IN FRONT OF YOUR LINE OF TRAVEL. THE STATION IS 7.00 METERS NORTHEAST OF THE CENTER OF GIBB ANDERSON ROAD AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350015 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 K 124</p> <p>Ref Mon # 2 AHTD LITTLE ROCK</p> <p>Ref Mon # 3 AHTD MON 1</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350016A	Date Monumented 1/16/2002	Monumented By AHTD	County JEFFERSON	Route 63	Job Number: 001930
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	557,476.2890	
Easting (M)	399,707.3100	
Elevation (M)*		
Northing (SFT)	1,828,986.7915	
Easting (SFT)	1,311,373.0662	
Elevation (SFT)*		

Convergence Angle	0	0	6.3904905
Scale Factor	0.999918881		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	GAS METER	247	19.10	62.7	350016
MK # 2	POWER POLE	239	15.30	50.2	71 26 27
MK # 3					71 26 33

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124	
Ref Mon # 2 AHTD LITTLE ROCK	
Ref Mon # 3 AHTD MON 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350017	Date Monumented 1/16/2002	Monumented By AHTD	County JEFFERSON	Route 63	Job Number: 001930
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	562,570.2620	
Easting (M)	400,879.7690	
Elevation (M)*		
Northing (SFT)	1,845,699.2679	
Easting (SFT)	1,315,219.7088	
Elevation (SFT)*		

Convergence Angle	0	0	19.2189281
Scale Factor	0.999919927		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	209	21.60	70.9	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124	
Ref Mon # 2 AHTD LITTLE ROCK	
Ref Mon # 3 AHTD MON 1	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 7 56.7159492
Longitude	91 59 25.6615188
Ellipsoid Height (M):	37.864
Geoid Height (M):	-25.780

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF I 530 AND U.S. HIGHWAY 63, LOCATED ON THE SOUTH SIDE OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 63 FOR 4.748 KM (2.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 3.55 METERS WEST OF THE EDGE OF A CONCRETE DITCH, 1.58 METERS SOUTH OF THE EDGE OF A CONCRETE DRAIN RAMP, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350017 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	350007
Geodetic Azimuth	9 26 04
Grid Azimuth	9 25 45

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350018	Date Monumented 1/16/2002	Monumented By AHTD	County JEFFERSON	Route I 530	Job Number: 001930
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	567,487.7240	
Easting (M)	401,072.8190	
Elevation (M)*		
Northing (SFT)	1,861,832.6412	
Easting (SFT)	1,315,853.0737	
Elevation (SFT)*		

Convergence Angle	0	0	23.4483985
Scale Factor	0.999921543		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN METAL GUARD RAIL POS	122	2.66	8.7
MK # 2	PUNCH MARK IN METAL GUARD RAIL POS	164	3.70	12.1
MK # 3	PUNCH MARK IN METAL GUARD RAIL POS	193	7.70	25.3

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>K 124</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD LITTLE ROCK</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD MON 1</td> </tr> </table>	Ref Mon # 1	K 124	Ref Mon # 2	AHTD LITTLE ROCK	Ref Mon # 3	AHTD MON 1	<table style="width: 100%;"> <tr> <td style="width: 100%;">Comments</td> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Ref Mon # 1	K 124								
Ref Mon # 2	AHTD LITTLE ROCK								
Ref Mon # 3	AHTD MON 1								
Comments									

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 34 10 36.3207864

Longitude 91 59 18.1047192

Ellipsoid Height (M): 41.399

Geoid Height (M): -25.820

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I 530 AND U.S. HIGHWAY 63 LOCATED ON THE SOUTH SIDE OF PINE BLUFF GO SOUTH ON I 530 FOR 1.93 KM (1.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.80 METERS SOUTHEAST OF THE OHIO STREET OVERPASS NORTH BOUND BRIDGE END, 2.68 METERS NORTHWEST OF THE OHIO STREET OVERPASS SOUTH BOUND BRIDGE END, AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350018 2002" SET OF TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350018A	Date Monumented 1/16/2002	Monumented By AHTD	County JEFFERSON	Route I 530	Job Number: 001930
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	567,069.5869	
Easting (M)	400,659.4020	
Elevation (M)*		
Northing (SFT)	1,860,460.8030	
Easting (SFT)	1,314,496.7214	
Elevation (SFT)*		

Convergence Angle	0	0	14.4117838
Scale Factor	0.999921383		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I 530 AND U.S. HIGHWAY 63, LOCATED ON THE SOUTH SIDE OF PINE BLUFF, GO SOUTH ON I 530 FOR 1.30 KM (0.81 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.35 METERS NORTH OF THE NORTH EDGE OF THE SOUTH BOUND I 530 LANE, 7.34 METERS SOUTH OF THE SOUTH EDGE OF THE NORTH BOUND I 530 LANE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350018A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				AZ Mark Station	350018
MK # 2					Geodetic Azimuth	44 40 44
MK # 3					Grid Azimuth	44 40 29

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124	
Ref Mon # 2 AHTD LITTLE ROCK	
Ref Mon # 3 AHTD MON 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350019	Date Monumented 1/16/2003	Monumented By AHTD	County JEFFERSON	Route 256	Job Number: 020048
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	600,104.5739	
Easting (M)	394,938.0620	
Elevation (M)*		
Northing (SFT)	1,968,843.0895	
Easting (SFT)	1,295,725.9584	
Elevation (SFT)*		

Convergence Angle	0	1	51.0215120
Scale Factor	0.999947392		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	91	8.00	26.2	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LROC, AHTD MON 1	
Ref Mon # 2 AHTD HOPE 1	
Ref Mon # 3 480016	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 28 14.8782720
Longitude	92 3 18.3622644
Ellipsoid Height (M):	42.102
Geoid Height (M):	-26.065

Location Description
<p>TO REACH THE STATION FROM U.S. STATE HIGHWAY 256 AND THE JEFFERSON LONOKE COUNTY LINE, SOUTH OF ENGLAND, GO WEST ON HIGHWAY 256 4.20 MILES TO THE STATION ON THE RIGHT, 8.20 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "350019 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350019A	Date Monumented 1/16/2003	Monumented By AHTD	County JEFFERSON	Route 256	Job Number: 020048
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	599,570.2908	
Easting (M)	394,856.2360	
Elevation (M)*		
Northing (SFT)	1,967,090.1957	
Easting (SFT)	1,295,457.5009	
Elevation (SFT)*		

Convergence Angle	0	1	52.8097620
Scale Factor	0.999946757		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	192	2.40	7.9
MK # 2	POWER POLE	267	14.80	48.6
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 LROC, AHTD MON 1 Ref Mon # 2 AHTD HOPE 1 Ref Mon # 3 480016	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 27 57.5370180
Longitude	92 3 21.5573328
Ellipsoid Height (M):	43.091
Geoid Height (M):	-26.059

Location Description
TO REACH THE STATION FROM U.S. STATE HIGHWAY 256 AND THE JEFFERSON LONOKE COUNTY LINE, SOUTH OF ENGLAND, GO WEST ON HIGHWAY 256 4.55 MILES TO THE STATION ON THE LEFT, EAST 9.10 METERS OF THE CENTER OF THE HIGHWAY AND 0.50 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "350019A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	350019
Geodetic Azimuth	8 40 33
Grid Azimuth	8 42 26

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350020	Date Monumented 1/16/2003	Monumented By AHTD	County JEFFERSON	Route 31	Job Number: 020047
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Zone Arkansas South	Zone Code 302	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 593,609.8449		Geoid Datum:
Easting (M) 409,438.2440		Latitude 34 24 43.9849656
Elevation (M)* 		Longitude 91 53 50.3986776
Northing (SFT) 1,947,534.9661		Ellipsoid Height (M): 38.574
Easting (SFT) 1,343,298.6389		Geoid Height (M): -26.078
Elevation (SFT)* 		

Convergence Angle 0 3 26.8624180	Location Description TO REACH THE STATION FROM U.S. STATE HIGHWAY 15 AND HIGHWAY 31, NORTH EAST OF SHERRILL, GO NORTH ON HIGHWAY 31 4.05 MILES TO THE STATION ON THE LEFT, 10.60 METERS WEST OF THE CENTER OF THE HIGHWAY, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "350020 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN WITH THE GROUND
Scale Factor 0.999940143	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL	
Horizontal Datum 	
Latitude 	
Longitude 	
Ellipsoid Height: 	
Grid Northing (Meters) 	
Grid Easting (Meters) 	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station 350020A
MK # 2					Geodetic Azimuth 16 58 20
MK # 3					Grid Azimuth 16 54 54

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD MON 1 Ref Mon # 2 480016 Ref Mon # 3 AHTD LROC	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350020A	Date Monumented 1/16/2003	Monumented By AHTD	County JEFFERSON	Route 31	Job Number: 020047
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Zone Arkansas South	Zone Code 302	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 594,156.3599		Geoid Datum:
Easting (M) 409,604.4430		Latitude 34 25 1.7165676
Elevation (M)* 		Longitude 91 53 43.8684936
Northing (SFT) 1,949,327.9908		Ellipsoid Height (M): 38.450
Easting (SFT) 1,343,843.9101		Geoid Height (M): -26.085
Elevation (SFT)* 		

Convergence Angle 0 3 30.5173012	Location Description TO REACH THE STATION FROM U.S. STATE HIGHWAY 15 SOUTH AND HIGHWAY 31 SOUTH, NORTH EAST OF SHERRILL, GO NORTH ON HIGHWAY 31 4.40 MILES TO THE STATION ON THE LEFT, 6.0 METERS NORTH OF A FIELD TURN IN AND 0.50 EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "350020A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.
Scale Factor 0.999940712	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL	
Horizontal Datum 	
Latitude 	
Longitude 	
Ellipsoid Height: 	
Grid Northing (Meters) 	
Grid Easting (Meters) 	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	234	26.70	87.6	AZ Mark Station 350020
MK # 2					Geodetic Azimuth 196 58 24
MK # 3					Grid Azimuth 196 54 54

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD MON 1 Ref Mon # 2 480016 Ref Mon # 3 AHTD LROC	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350021	Date Monumented 1/16/2003	Monumented By AHTD	County JEFFERSON	Route 79B	Job Number: 020384
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	583,219.8469	
Easting (M)	409,940.0290	
Elevation (M)*		
Northing (SFT)	1,913,447.1144	
Easting (SFT)	1,344,944.9118	
Elevation (SFT)*		

Convergence Angle	0	3	37.6200077
Scale Factor	0.999930723		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	HEADWALL	244	21.55	70.7	
MK # 2	TELEPHONE RISER	40	26.45	86.8	
MK # 3					

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>LROC, AHTD HOPE 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>480016</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD MON 1</td> </tr> </table>	Ref Mon # 1	LROC, AHTD HOPE 1	Ref Mon # 2	480016	Ref Mon # 3	AHTD MON 1	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	LROC, AHTD HOPE 1						
Ref Mon # 2	480016						
Ref Mon # 3	AHTD MON 1						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 19 6.7579572
Longitude	91 53 31.1780796
Ellipsoid Height (M):	38.604
Geoid Height (M):	-25.983

Location Description
TO REACH THE STATION: THE STATION IS IN THE MEDIAN AT THE INTERSECTIONS OF U.S. STATE HIGHWAY 79B AND HIGHWAY 15 NORTH WEST OF ALTHEMER, ACROSS THE ROAD (SOUTH) FROM THE TRAVLERS REST M. B. CHURCH, NORTH 19.40 METERS OF THE CENTER OF 79B AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "350021 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	350021A
Geodetic Azimuth	93 09 30
Grid Azimuth	93 05 52

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350021A	Date Monumented 1/16/2003	Monumented By AHTD	County JEFFERSON	Route 79B	Job Number: 020384
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	583,183.7819	
Easting (M)	410,606.4220	
Elevation (M)*		
Northing (SFT)	1,913,328.7911	
Easting (SFT)	1,347,131.2362	
Elevation (SFT)*		

Convergence Angle	0	3	52.2086481
Scale Factor	0.999930695		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UNDER GROUND CABLE MARKER	231	1.40	4.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	LROC, AHTD HOPE 1
Ref Mon # 2	480016
Ref Mon # 3	AHTD MON 1

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 34 19 5.5638624

Longitude 91 53 5.1125388

Ellipsoid Height (M): 38.067

Geoid Height (M): -25.986

Location Description

TO REACH THE STATION FROM U.S. STATE HIGHWAY 79B AND HIGHWAY 15 NORTH, WEST OF ALTHEMER, GO NORTH ON 79B 0.40 MILES TO THE STATION ON THE RIGHT, SOUTH 17.0 METERS OF THE CENTER OF THE HIGHWAY, 24.10 METERS WEST OF A GRAVEL DRIVE AND 0.50 NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "350021A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350022	Date Monumented 1/22/2003	Monumented By AHTD	County JEFFERSON	Route 79	Job Number: 001942
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	563,283.8990	
Easting (M)	389,721.1540	
Elevation (M)*		
Northing (SFT)	1,848,040.5920	
Easting (SFT)	1,278,610.1527	
Elevation (SFT)*		

Convergence Angle	0	3	44.5626416
Scale Factor	0.999920123		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PIPE SIGN POST FOR BBQ HUT	58	22.20	72.8
MK # 2	CORRIGATED METAL PIPE	224	12.40	40.7
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>AHTD HOPE 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>480016</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD MON 1</td> </tr> </table>	Ref Mon # 1	AHTD HOPE 1	Ref Mon # 2	480016	Ref Mon # 3	AHTD MON 1	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ##### NOTE ##### CAP IS STAMPED 350021 </td> </tr> </table>	Comments	##### NOTE ##### CAP IS STAMPED 350021
Ref Mon # 1	AHTD HOPE 1								
Ref Mon # 2	480016								
Ref Mon # 3	AHTD MON 1								
Comments									
##### NOTE ##### CAP IS STAMPED 350021									

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 8 19.6981908
Longitude	92 6 41.2263324
Ellipsoid Height (M):	55.595
Geoid Height (M):	-25.771

Location Description
TO REACH THE STATION FROM THE CLEVELAND / JEFFERSON COUNTY LINE LOCATED SOUTH OF PINE BLUFF, GO NORTH ON U.S. HIGHWAY 79 FOR 7.27 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.80 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "350021 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	350021A
Geodetic Azimuth	224 44 48
Grid Azimuth	224 48 33

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350022A	Date Monumented 1/22/2003	Monumented By AHTD	County JEFFERSON	Route 79	Job Number: 001942
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	562,895.5209	
Easting (M)	389,335.3550	
Elevation (M)*		
Northing (SFT)	1,846,766.3882	
Easting (SFT)	1,277,344.4105	
Elevation (SFT)*		

Convergence Angle	0	3	52.9816271
Scale Factor	0.999920013		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	58	16.70	54.8
MK # 2	COMBINATION POLE	209	24.75	81.2
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HOPE 1 Ref Mon # 2 480016 Ref Mon # 3 AHTD MON 1	##### NOTE ##### CAP IS STAMPED 350021A

Vertical Determined By: NONE	
Elevation Datum: NONE	
Geoid Datum:	
Latitude	34 8 7.0787256
Longitude	92 6 56.2685436
Ellipsoid Height (M):	61.896
Geoid Height (M):	-25.771

Location Description
TO REACH THE STATION FROM THE CLEVELAND / JEFFERSON COUNTY LINE LOCATED SOUTH OF PINE BLUFF, GO NORTH ON U.S. HIGHWAY 79 FOR 6.91 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12.50 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "350021A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350023	Date Monumented 7/18/2006	Monumented By AHTD	County JEFFERSON	Route 79B	Job Number: 20070, 020495.020588,02062
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	573,583.7409	
Easting (M)	398,212.7760	
Elevation (M)*	67.749	0.0000
Northing (SFT)	1,881,832.6566	
Easting (SFT)	1,306,469.7493	
Elevation (SFT)*	222.273	

Convergence Angle	0	0	39.0882616
Scale Factor	0.999924376		
Elevation Adjust. Factor	0.9999893681		
Combined Adjust. Factor	0.9999137449		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	13	54.1729344
Longitude	92	1	9.8390424
Ellipsoid Height:	41.995		
Grid Northing (Meters)	573,583.7409		
Grid Easting (Meters)	398,212.7760		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE WITH GUY	274	9.97	32.7
MK # 2	WATER SPIGOT	35	4.97	16.3
MK # 3	CHAINLINK FENCE CORNER	139	3.47	11.4

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPB Ref Mon # 2 ARMO Ref Mon # 3 ARLR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> 3-wire levels ran by crew S5101 from 1st Order NGS marks S 288 & T288 in September 07. ***** Elevation updated from 222.260' to 222.273' in September 2017 by Garver. Digital levels ran from NGS BM S288 and X 288 during job 020588.***** Position updated during 020588 using static GPS constraining the ortho. Ht at ARPB. </td> </tr> </table>	Comments	3-wire levels ran by crew S5101 from 1st Order NGS marks S 288 & T288 in September 07. ***** Elevation updated from 222.260' to 222.273' in September 2017 by Garver. Digital levels ran from NGS BM S288 and X 288 during job 020588.***** Position updated during 020588 using static GPS constraining the ortho. Ht at ARPB.
Comments			
3-wire levels ran by crew S5101 from 1st Order NGS marks S 288 & T288 in September 07. ***** Elevation updated from 222.260' to 222.273' in September 2017 by Garver. Digital levels ran from NGS BM S288 and X 288 during job 020588.***** Position updated during 020588 using static GPS constraining the ortho. Ht at ARPB.			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350023A	Date Monumented 7/18/2006	Monumented By AHTD	County JEFFERSON	Route 79B	Job Number: 020070, 020495, 020588
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	574,218.4529	
Easting (M)	398,220.9760	
Elevation (M)*	67.045	0.0024
Northing (SFT)	1,883,915.0409	
Easting (SFT)	1,306,496.6521	
Elevation (SFT)*	219.963	

Convergence Angle	0	0	38.9115379
Scale Factor	0.999924724		
Elevation Adjust. Factor	0.9999894786		
Combined Adjust. Factor	0.9999142034		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	63	26.30	86.3
MK # 2	CHAINLINK FENCE CORNER	343	6.43	21.1
MK # 3	COMBINATION POLE WITH LIGHT	172	28.59	93.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 K 124, J 112 Ref Mon # 3 ALMYPORT	3-wire levels ran by crew S5101 from 1st Order NGS marks S 288 & T288 in September 07. ***** Elevation updated from 219.975' to 219.963' in September 2017 by Garver. Digital levels ran from NGS BM S288 and X 288 during job 020588. ***** Position updated during 020588 using static GPS constraining the ortho. Ht at ARPB.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350024	Date Monumented 8/30/2006	Monumented By AHTD	County JEFFERSON	Route 270	Job Number: 020445, 020626
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	579,824.8377 0.0020
Easting (M)	384,782.6896 0.0020
Elevation (M)*	105.691

Northing (SFT)	1,902,308.6550	
Easting (SFT)	1,262,407.8741	
Elevation (SFT)*	346.754	

Convergence Angle	0 5	33.0369220
Scale Factor	0.999928219	
Elevation Adjust. Factor	0.9999834140	
Combined Adjust. Factor	0.9999116341	

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)
Latitude	34 17 16.3415940
Longitude	92 9 55.0372824
Ellipsoid Height:	79.867
Grid Northing (Meters)	579,824.8359
Grid Easting (Meters)	384,782.6940

Location Description

TO REACH THE STATION MARK FROM THE JEFFERSON AND GRANT COUNTY LINE AND STATE HIGHWAY 270, WEST OF WHITE HALL, GO EAST ON HIGHWAY 270 FROM THE COUNTY LINE 2.9 MILES TO THE STATION MARK ON THE RIGHT, EAST 71.3 FEET OF THE CENTERLINE OF A GRAVEL DRIVE AND SOUTH 53.9 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "350024 2006" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND SURFACE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	296	28.62	93.9
MK # 2				
MK # 3				

AZ Mark Station	350024A
Geodetic Azimuth	115 30 31
Grid Azimuth	115 36 04

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM (ARCM, ARLR)	Old elev. 105.668m based on 3-Wire levels ran by S5102 in Jan 08 in Job 020445. *****UPDATED 11/2016***** ELEVATION BASED ON DIGITAL LEVELS BY S5112 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.
Ref Mon # 2 ARLR (CSAL)	
Ref Mon # 3 ARPB (K 124)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350024A	Date Monumented 8/30/2006	Monumented By AHTD	County JEFFERSON	Route 270	Job Number: 020445, 020626
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	579,608.7485	0.0020			
Easting (M)	385,233.6976	0.0020			
Elevation (M)*	105.927				

Northing (SFT)	1,901,599.7024				
Easting (SFT)	1,263,887.5562				
Elevation (SFT)*	347.529				

Convergence Angle	0	5	23.1590378		
Scale Factor	0.999928070				
Elevation Adjust. Factor	0.9999833769				
Combined Adjust. Factor	0.9999114481				

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)				
Latitude	34	17	9.3512220		
Longitude	92	9	37.3884156		
Ellipsoid Height:	80.095				
Grid Northing (Meters)	579,608.7379				
Grid Easting (Meters)	385,233.7030				

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	GAS METER		97	4.67	15.3
MK # 2	SERVICE POLE WITH GUY		6	13.17	43.2
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM (ARCM, ARLR)	Original Elevation 105.9051m based on 3-Wire levels ran by S5102 in Jan 08 in Job 020445. *****UPDATED 11/2016***** ELEVATION BASED ON DIGITAL LEVELS BY S5112 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.
Ref Mon # 2 ARLR (CSAL)	
Ref Mon # 3 ARPB (K 124)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350025	Date Monumented 8/30/2006	Monumented By AHTD	County JEFFERSON	Route 530	Job Number: 020445, 020626
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	576,848.4422 0.0020
Easting (M)	390,403.7869 0.0020
Elevation (M)*	97.198

Northing (SFT)	1,892,543.5975		
Easting (SFT)	1,280,849.7575		
Elevation (SFT)*	318.892		

Convergence Angle	0	3	29.9507655
Scale Factor	0.999926268		
Elevation Adjust. Factor	0.9999847466		
Combined Adjust. Factor	0.9999110158		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)
Latitude	34 15 39.9788856
Longitude	92 6 15.1191180
Ellipsoid Height:	71.394
Grid Northing (Meters)	576,848.4119
Grid Easting (Meters)	390,403.7910

Location Description

 THE STATION MARK IS LOCATED IN THE MEDIAN OF I 530, WEST OF WHITE HALL, SOUTH OF THE OVER PASS FOR STATE HIGHWAY 270 (EXIT 34), EAST 24.5 FEET OF THE EDGE OF CONCRETE OF THE SOUTH BOUND LANE, WEST 25.3 FEET OF THE EDGE OF CONCRETE OF THE NORTH BOUND LANE, 3.5 FEET SOUTH OF THE EDGE OF CONCRETE, AND EAST 21.7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "350025 2006 ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND SURFACE.

Location Reference Marks

Description	Azimuth	Distance		
		Meters	Feet	
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	350025A
Geodetic Azimuth	172 05 15
Grid Azimuth	172 08 45

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM (ARCM, ARLR)	ELEVATION BASED ON DIGITAL LEVELS BY S5112 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.
Ref Mon # 2 ARLR (CSAL)	
Ref Mon # 3 ARPB (K 124)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350025A	Date Monumented 8/30/2006	Monumented By AHTD	County JEFFERSON	Route 530	Job Number: 020445, 020626
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	576,321.1620 0.0020
Easting (M)	390,476.5169 0.0020
Elevation (M)*	88.895

Northing (SFT)	1,890,813.6790	
Easting (SFT)	1,281,088.3725	
Elevation (SFT)*	291.651	

Convergence Angle	0 3	28.3478910
Scale Factor	0.999925944	
Elevation Adjust. Factor	0.9999860496	
Combined Adjust. Factor	0.9999119946	

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)
Latitude	34 15 22.8681648
Longitude	92 6 12.2550624
Ellipsoid Height:	63.077
Grid Northing (Meters)	576,321.1429
Grid Easting (Meters)	390,476.5260

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 AND I 530 (EXIT 34), WEST OF WHITE HALL, GO SOUTH ON I 530 0.30 MILES TO THE STATION MARK IN THE MEDIAN, EAST 30.7 FEET OF THE EDGE OF CONCRETE OF THE SOUTH BOUND LANE, WEST 28.7 FEET OF THE EDGE OF CONCRETE OF THE NORTH BOUND LANE, AND EAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "350025A 2006 ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND SURFACE.

Location Reference Marks

Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
MK # 1				350025
MK # 2				352 05 16
MK # 3				352 08 45

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM (ARCM, ARLR)</p> <p>Ref Mon # 2 ARLR (CSAL)</p> <p>Ref Mon # 3 ARPB (K 124)</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BASED ON DIGITAL LEVELS BY S5112 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350026	Date Monumented 1/19/2010	Monumented By AHTD	County JEFFERSON	Route 54	Job Number: 020BR2
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	565,896.7000	
Easting (M)	384,193.1780	
Elevation (M)*	86.072	
Northing (SFT)	1,856,612.7566	
Easting (SFT)	1,260,473.7848	
Elevation (SFT)*	282.388	

Convergence Angle	0	5	45.4281131
Scale Factor	0.999920950		
Elevation Adjust. Factor	0.9999864927		
Combined Adjust. Factor	0.9999074437		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	65	21.85	71.7
MK # 2	30 INCH TWIN PINE	162	13.71	45.0
MK # 3	COMBINATION POLE	53	19.32	63.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CSAL, ARLR	
Ref Mon # 2 K 124	
Ref Mon # 3 ARHP	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 9 44.2536516
Longitude	92 10 17.1768108
Ellipsoid Height (M):	60.249
Geoid Height (M):	-25.823

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 74 AND STATE HIGHWAY 54, SOUTHWEST OF PINE BLUFF, GO WEST ON 54 FOR 6.55 MILES TO THE STATION MARK ON THE LEFT, NORTHWEST OF THE CENTERLINE OF THE HIGHWAY 30.1 FEET, AND SOUTHEAST 1.88 FEET OF A</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350026A	Date Monumented 1/19/2010	Monumented By AHTD	County JEFFERSON	Route 54	Job Number: 020BR2
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	566,184.0850	
Easting (M)	384,515.3700	
Elevation (M)*	88.606	
Northing (SFT)	1,857,555.6189	
Easting (SFT)	1,261,530.8431	
Elevation (SFT)*	290.702	

Convergence Angle	0	5	38.3975355
Scale Factor	0.999921052		
Elevation Adjust. Factor	0.9999860950		
Combined Adjust. Factor	0.9999071481		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	TELEPHONE RISER	103	24.07	79.0		350026
MK # 2	POWER POLE	200	32.58	106.9		228 10 27
MK # 3						228 16 05

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CSAL, ARLR	
Ref Mon # 2 K 124	
Ref Mon # 3 ARHP	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350027	Date Monumented 11/19/2010	Monumented By AHTD	County Jefferson	Route 79	Job Number: 020505,020615
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	568,180.2862	0.0030	
Easting (M)	393,013.9755	0.0040	
Elevation (M)*	72.347		

Northing (SFT)	1,864,104.8223		
Easting (SFT)	1,289,413.3513		
Elevation (SFT)*	237.358		

Convergence Angle	0	2	32.7033738
Scale Factor	0.999921818		
Elevation Adjust. Factor	0.9999886465		
Combined Adjust. Factor	0.9999104654		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	10	58.7173476
Longitude	92	4	32.8361772
Ellipsoid Height:	46.545		
Grid Northing (Meters)	568,180.2930		
Grid Easting (Meters)	393,013.9530		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	North end of a 24 inch cmp	223	21.95	72.0
MK # 2	Fire hydrant	183	46.02	151.0
MK # 3	Power pole with guy and transformer	55	41.45	136.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPB	Digital Levels were ran by crew S5113 from NGS mark S 288 to R 288 in Nov. 2010 during Job 020505. *****Position updated by Garver in August 2017 during job 020615 via static GPS. Elevations by digital level from NGS BM RV177 remained unchanged from previous elevation.*****
Ref Mon # 2 ARLR	
Ref Mon # 3 ARMO	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350027A	Date Monumented 11/19/2010	Monumented By AHTD	County Jefferson	Route 79	Job Number: 020505,020615
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	567,762.8981	0.0030	
Easting (M)	392,805.5889	0.0040	
Elevation (M)*	70.235		

Northing (SFT)	1,862,735.4415	
Easting (SFT)	1,288,729.6696	
Elevation (SFT)*	230.430	

Convergence Angle	0	2	37.2514158
Scale Factor	0.999921650		
Elevation Adjust. Factor	0.9999889779		
Combined Adjust. Factor	0.9999106288		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	10	45.1653240
Longitude	92	4	40.9623384
Ellipsoid Height:	44.437		
Grid Northing (Meters)	567,762.9079		
Grid Easting (Meters)	392,805.5620		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Drop inlet across the highway	343	23.47	77.0
MK # 2	Telephone box in yard	97	28.65	94.0
MK # 3	Combination pole in yard	61	19.81	65.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPB Ref Mon # 2 ARLR Ref Mon # 3 ARMO	Digital Levels were ran by crew S5113 from NGS mark S 288 to R 288 in Nov. 2010 during Job 020505.*****Position updated by Garver in August 2017 during job 020615 via static GPS. Elevations by digital level from NGS BM RV177 remained unchanged from previous elevation.*****

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350028	Date Monumented 12/2/2014	Monumented By AHTD	County JEFFERSON	Route 63	Job Number: RX0030
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	556,188.3729	
Easting (M)	397,258.8102	
Elevation (M)*		
Northing (SFT)	1,824,761.3534	
Easting (SFT)	1,303,339.9465	
Elevation (SFT)*		

Convergence Angle	0	0	59.8420073
Scale Factor	0.999918718		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	142	29.60	97.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARLR	34.0430 92.0147
Ref Mon # 2: ARCM	
Ref Mon # 3: MSB6	

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	GEOID99
Latitude	34 4 29.5661280
Longitude	92 1 46.9197840
Ellipsoid Height (M):	58.193
Geoid Height (M):	-25.801

Location Description
<p>TO REACH FROM THE JCT. OF HWY. 63 AND HWY. 54 EAST NEAR PINE BLUFF. GO SOUTH ON HWY. 63 FOR 2.15 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS 43 FT. EAST OF THE CENTERLINE OF HWY 63, AND 19 FT. WEST OF A WITNESS POST. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "350028 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350029	Date Monumented 12/8/2014	Monumented By AHTD	County JEFFERSON	Route 530	Job Number: BB0201
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	582,025.9838	0.0040			
Easting (M)	387,069.1371	0.0036			
Elevation (M)*					

Northing (SFT)	1,909,530.2485	
Easting (SFT)	1,269,909.3273	
Elevation (SFT)*		

Convergence Angle	0	4	43.0632805
Scale Factor	0.999929809		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SW COR OF BRIDGE N BOUND I-530	356	11.20	36.7
MK # 2	SE COR OF BRIDGE S BOUND I-530	190	9.90	32.5
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MSB6</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	ARCM	Ref Mon # 3	MSB6	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARLR							
Ref Mon # 2	ARCM							
Ref Mon # 3	MSB6							
Comments								

Vertical Determined By:

Elevation Datum:

Geoid Datum: GEOID99

Latitude 34 18 27.8924760

Longitude 92 8 25.7494920

Ellipsoid Height (M): 64.847 0.0275

Geoid Height (M): -25.958

Location Description

TO REACH FROM THE EXIT 30 OVERPASS ON I-530 OVER HWY. 104 NEAR PINE BLUFF. THE MARK IS IN THE CENTER OF THE MEDIAN ON THE SOUTH SIDE OF THE OVERPASS. THE STATION MARK IS 1 FT. EAST OF A WITNESS POST, 7 FT. SOUTH OF A CONCRETE RETAINING WALL, 38.8 FT. WEST OF THE CENTER OF NORTH BOUND I-530, AND 45.2 FT. EAST OF THE CENTER OF SOUTH BOUND I-530. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "350029 2014" SET ON TOP OF A 5/8 IN BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350029A	Date Monumented 12/8/2014	Monumented By AHTD	County JEFFERSON	Route 530	Job Number: BB0201
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	581,586.6204	0.0043	
Easting (M)	387,492.8709	0.0039	
Elevation (M)*			

Northing (SFT)	1,908,088.7704	
Easting (SFT)	1,271,299.5273	
Elevation (SFT)*		

Convergence Angle	0	4	33.7747748
Scale Factor	0.999929483		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL CABLE BARRIER POST	282	8.40	27.6
MK # 2	METAL CABLE BARRIER POST	250	5.10	16.7
MK # 3	METAL CABLE BARRIER POST	196	4.90	16.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARCM Ref Mon # 3 MSB6	

Location Description

 TO REACH FROM THE EXIT 30 OVERPASS ON I-530 OVER HWY. 104 NEAR PINE BLUFF. GO SOUTH ON I-530 FOR 0.4 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS 11.5 FT. EAST OF A WITNESS POST, 37.3 FT. EAST OF THE CENTER OF SOUTH BOUND I-530, AND 47 FT. WEST OF THE CENTER OF NORTH BOUND I-530. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "350029A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350030	Date Monumented 12/8/2014	Monumented By AHTD	County JEFFERSON	Route 530	Job Number: BB0201,020661
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	590,850.6956 0.0055
Easting (M)	383,261.1343 0.0056
Elevation (M)*	101.496 0.0066
Northing (SFT)	1,938,482.6571
Easting (SFT)	1,257,415.9048
Elevation (SFT)*	332.991

Convergence Angle	0 6 6.7657730
Scale Factor	0.999937371
Elevation Adjust. Factor	0.9999840722
Combined Adjust. Factor	0.9999214442

SUPERCEDED CONTROL			
Horizontal Datum	NAD83 (1997)		
Latitude	34	23	14.1073440
Longitude	92	10	55.3002240
Ellipsoid Height:	75.493		
Grid Northing (Meters)	590,850.6940		
Grid Easting (Meters)	383,261.1498		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NW CORNER OF BRIDGE N BOUND I-530	183	11.80	38.7
MK # 2	NE CORNER OF BRIDGE S BOUND I-530	225	7.80	25.6
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MSB6</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARLR	Ref Mon # 2	ARCM	Ref Mon # 3	MSB6	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV DETERMINED BY DIGITAL LEVEL RUN FROM NGS BM E 288 DURING JOB 020661 BY CREW S5101 IN APRIL 2022.</td> </tr> </table>	Comments	ELEV DETERMINED BY DIGITAL LEVEL RUN FROM NGS BM E 288 DURING JOB 020661 BY CREW S5101 IN APRIL 2022.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARLR										
Ref Mon # 2	ARCM										
Ref Mon # 3	MSB6										
Comments											
ELEV DETERMINED BY DIGITAL LEVEL RUN FROM NGS BM E 288 DURING JOB 020661 BY CREW S5101 IN APRIL 2022.											

Vertical Determined By: 3rd Order - Digital Levels
Elevation Datum: NAVD 88
Geoid Datum: GEOID18
Latitude 34 23 14.1073944
Longitude 92 10 55.3008324
Ellipsoid Height (M): 75.449 0.0111
Geoid Height (M): -26.046

Location Description
<p>TO REACH FROM THE EXIT 24 OVERPASS ON I-530 OVER STAGECOACH RD. NEAR PINE BLUFF. GO TO THE NORTH SIDE OF THE OVERPASS TO THE STATION MARK ON THE LEFT. THE STATION MARK IS 1 FT. EAST OF A WITNESS POST, 13.5 FT. NORTH OF A CONCRETE RETAINING WALL, 43.5 FT. EAST OF THE CENTER OF SOUTH BOUND I-530, AND 35.8 FT. WEST OF THE CENTER OF NORTH BOUND I-530. THE STATION MARK IS A 2 1/2 IN CAP STAMPED "350030 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350030A	Date Monumented 12/8/2014	Monumented By AHTD	County JEFFERSON	Route 530	Job Number: BB0201,020661
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	591,515.3743 0.0058
Easting (M)	383,117.7774 0.0059
Elevation (M)*	93.500 0.0074
Northing (SFT)	1,940,663.3572
Easting (SFT)	1,256,945.5747
Elevation (SFT)*	306.758

Convergence Angle	0 6 9.9329831
Scale Factor	0.999938019
Elevation Adjust. Factor	0.9999853270
Combined Adjust. Factor	0.9999233469

SUPERCEDED CONTROL			
Horizontal Datum	NAD83 (1997)		
Latitude	34	23	35.6713800
Longitude	92	11	0.9592800
Ellipsoid Height:	67.503		
Grid Northing (Meters)	591,515.3782		
Grid Easting (Meters)	383,117.7879		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL CABLE BARRIER POST	197	5.40	17.7
MK # 2	METAL CABLE BARRIER POST	262	2.50	8.2
MK # 3	METAL CABLE BARRIER POST	327	5.10	16.7

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARCM Ref Mon # 3 MSB6	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV DETERMINED BY DIGITAL LEVEL RUN FROM NGS BM E 288 DURING JOB 020661 BY CREW S5101 IN APRIL 2022.</td> </tr> </table>	Comments	ELEV DETERMINED BY DIGITAL LEVEL RUN FROM NGS BM E 288 DURING JOB 020661 BY CREW S5101 IN APRIL 2022.
Comments			
ELEV DETERMINED BY DIGITAL LEVEL RUN FROM NGS BM E 288 DURING JOB 020661 BY CREW S5101 IN APRIL 2022.			

Location Description
TO REACH FROM THE EXIT 24 OVERPASS ON I-530 OVER STAGECOACH RD. NEAR PINE BLUFF. GO NORTH ON I-530 FOR 0.4 MILES TO THE STATION MARK ON THE LEFT. THE STATION MARK IS 6 FT. EAST OF A WITNESS POST, 29.3 FT. EAST OF THE CENTER OF SOUTH BOUND I-530, AND 54.5 FT. WEST OF THE CENTER OF NORTH BOUND I-530. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "350030A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	34 23 35.6712540
Longitude	92 11 0.9596904
Ellipsoid Height (M):	67.453 0.0114
Geoid Height (M):	-26.049

AZ Mark Station	350030
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350031	Date Monumented 1/26/2015	Monumented By AHTD	County JEFFERSON	Route 13th AV	Job Number: C35002.020588,020628
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	571,876.5539 0.0030
Easting (M)	397,512.4009 0.0030
Elevation (M)*	69.638 0.0020
Northing (SFT)	1,876,231.6606
Easting (SFT)	1,304,171.9353
Elevation (SFT)*	228.472

Convergence Angle	0 0 54.3962729
Scale Factor	0.999923490
Elevation Adjust. Factor	0.9999890716
Combined Adjust. Factor	0.9999125624

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (2011)		
Latitude	34	12	58.7586240
Longitude	92	1	37.1898840
Ellipsoid Height:	42.929		
Grid Northing (Meters)	571,876.5539		
Grid Easting (Meters)	397,512.4009		

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 190 AND STATE HIGHWAY 79B, IN PINE BLUFF, GO SOUTH ON 79B FOR 0.5 MILES TO W 13th AVE AND TURN LEFT (EAST) AND GO 0.9 MILES TO THE MARK ON THE RIGHT, SOUTH 23 FEET OF THE BACK OF THE CURB OF 13th STREET, AND EAST 68.6 FEET OF THE EASTERN MOST RAIL OF THE RAIL ROAD TRACKS. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 350031" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS VALVE	319	19.20	63.0
MK # 2	NW CORNER I-S-F HOUSE	158	35.70	117.1
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARLR</p> <p>Ref Mon # 2 ARCM</p> <p>Ref Mon # 3 ARPB</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BASED ON 3RD ORDER DIGITAL LEVELS FROM A SINGLE NGS BM C 11 BY S5112 IN JANUARY OF 2015 FOR JOB #C35002. ELEVATION FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT. ***** Elevation updated from 228.971" to 228.4720' in September 2017 by Garver. Digital levels ran from NGS BM S288 and X 288 during job 020588.***** Position updated durin 020588 using static GPS constraining the ortho. Ht at ARPB.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350031A	Date Monumented 1/26/2015	Monumented By AHTD	County JEFFERSON	Route 13th AV	Job Number: C35002,020588
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	571,894.2465 0.0030
Easting (M)	398,131.5733 0.0030
Elevation (M)*	68.205 0.0018
Northing (SFT)	1,876,289.7071
Easting (SFT)	1,306,203.3367
Elevation (SFT)*	223.770

Convergence Angle	0 0 40.8569209
Scale Factor	0.999923499
Elevation Adjust. Factor	0.9999892965
Combined Adjust. Factor	0.9999127963

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (2011)		
Latitude	34	12	59.3375040
Longitude	92	1	12.9991080
Ellipsoid Height:	41.503		
Grid Northing (Meters)	571,894.2465		
Grid Easting (Meters)	398,131.5733		

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 190 AND STATE HIGHWAY 79B, IN PINE BLUFF, GO SOUTH ON 79B FOR 0.5 MILES TO W 13th AVE AND TURN LEFT (EAST) AND GO 1.3 MILES TO THE MARK ON THE LEFT, NORTH 31.5 FEET OF THE CENTER LINE OF 13th AVE, EAST 78.5 FEET OF THE CENTERLINE OF HICKORY STREET, IN THE CORNER OF THE SIDE WALK AND THE STEPS LEADING FROM A HOUSE WITH THE ADDRESS 1709. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 350031A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	SE CORNER OF A 1-S-F HOUSE		315	18.40	60.4
MK # 2	SW CORNER OF A 1-S-F HOUSE		28	28.00	91.9
MK # 3					

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARLR	<p>ELEVATION BASED ON 3RD ORDER DIGITAL LEVELS FROM A SINGLE NGS BM C 11 BY S5112 IN JANUARY OF 2015 FOR JOB #C35002. ELEVATION FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT. ***** Elevation updated from 224.254" to 223.770' in September 2017 by Garver. Digital levels ran from NGS BM S288 and X 288 during job 020588. ***** Position updated during 020588 using static GPS constraining the ortho. Ht at ARPB.</p>
Ref Mon # 2	ARCM	
Ref Mon # 3	ARPB	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350032	Date Monumented 6/7/2016	Monumented By AHTD	County JEFFERSON	Route US-63	Job Number: 020584
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	557,943.8022	0.0020			
Easting (M)	400,474.0999	0.0020			
Elevation (M)*					
Northing (SFT)	1,830,520.6244				
Easting (SFT)	1,313,888.7761				
Elevation (SFT)*					

Convergence Angle	0	0	10.3518419
Scale Factor	0.999918950		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
FROM JCT OF US-63 & SR-54W IN PINEBERGEN, S OF PINE BLUFF, GO S ON US-63 0.75 MI TO STA ON L. 14' E OF EDGE OF PAVEMENT. STA IS A 2 1/2" ALUM CAP STAMPED "350032 2016" SET BELOW SURFACE.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARCM Ref Mon # 3 ARP, ARWY	Comments CONSTRAINED ORTHOMETRIC HTS. ON ARLR, ARCM & ARWY IN FINAL NETWORK ADJUSTMENT
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350032A	Date Monumented 6/7/2016	Monumented By AHTD	County JEFFERSON	Route US-63	Job Number: 020584
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	558,423.1719	0.0020			
Easting (M)	400,559.1556	0.0020			
Elevation (M)*					
Northing (SFT)	1,832,093.3565				
Easting (SFT)	1,314,167.8297				
Elevation (SFT)*					

Convergence Angle	0	0	12.2096297
Scale Factor	0.999919027		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PHONE BOX	154	52.00	170.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARLR	CONSTRAINED ORTHOMETRIC HTS. ON ARLR, ARCM & ARWY IN FINAL NETWORK ADJUSTMENT
Ref Mon # 2: ARCM	
Ref Mon # 3: ARP, ARWY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350033	Date Monumented 9/26/2016	Monumented By AHTD	County JEFFERSON	Route 270	Job Number: 020626
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	578,367.5414 0.0020
Easting (M)	387,504.7721 0.0020
Elevation (M)*	99.700
Northing (SFT)	1,897,527.5087
Easting (SFT)	1,271,338.5731
Elevation (SFT)*	327.098

Convergence Angle	0 4 33.4208580
Scale Factor	0.999927237
Elevation Adjust. Factor	0.9999843541
Combined Adjust. Factor	0.9999115922

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE	137	31.00	101.7
MK # 2	COMBINATION POLE W/TRANSFORMER	290	54.20	177.8
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM Ref Mon # 2 ARLR Ref Mon # 3 ARPB	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BASED ON DIGITAL LEVELS BY S5112 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.</td> </tr> </table>	Comments	ELEVATION BASED ON DIGITAL LEVELS BY S5112 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.
Comments			
ELEVATION BASED ON DIGITAL LEVELS BY S5112 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 AND I 530 (EXIT 34), WEST OF PINE BLUFF, GO WEST ON HIGHWAY 270 1.9 MILES TO THE MARK ON THE LEFT, SOUTH 52.8 FEET OF THE CENTELINE OF THE HIGHWAY AND WEST 31.5 FEET OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 350033" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	350033A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350033A	Date Monumented 9/26/2016	Monumented By AHTD	County JEFFERSON	Route 270	Job Number: 020626
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	578,109.9886 0.0020
Easting (M)	388,005.8980 0.0020
Elevation (M)*	98.773

Northing (SFT)	1,896,682.5209	
Easting (SFT)	1,272,982.6837	
Elevation (SFT)*	324.057	

Convergence Angle	0 4	22.4480502
Scale Factor	0.999927069	
Elevation Adjust. Factor	0.9999844996	
Combined Adjust. Factor	0.9999115697	

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 AND I 530 (EXIT 34), WEST OF PINE BLUFF, GO WEST ON HIGHWAY 270 1.6 MILES TO THE MARK ON THE LEFT, SOUTH 29 FEET OF THE CENTELINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 350033A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/2 GUYS	282	113.70	373.0
MK # 2	COMBINATION POLE W/TRANSFORMER & LIGHT	133	121.00	397.0
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARCM
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB

Comments
ELEVATION BASED ON DIGITAL LEVELS BY S5112 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350034	Date Monumented 9/26/2016	Monumented By AHTD	County JEFFERSON	Route 270	Job Number: 020626
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	575,509.2523	0.0020			
Easting (M)	393,114.1300	0.0020			
Elevation (M)*	79.724				
Northing (SFT)	1,888,149.9386				
Easting (SFT)	1,289,741.9415				
Elevation (SFT)*	261.560				

Convergence Angle	0	2	30.6311477
Scale Factor	0.999925460		
Elevation Adjust. Factor	0.9999874889		
Combined Adjust. Factor	0.9999129498		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EASTERN MOST GATE POST	138	48.30	158.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	ELEVATION BASED ON DIGITAL LEVELS BY S5112 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.
Ref Mon # 2 ARLR	
Ref Mon # 3 ARPB	

Vertical Determined By: 3rd Order - Digital Levels	Elevation Datum: NAVD 88
Geoid Datum: Geoid 12A	Latitude 34 14 56.5917828
Longitude 92 4 29.1328464	Ellipsoid Height (M): 53.741 0.0050
Geoid Height (M): -26.004 0.0022	

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270, HIGHWAY 365, NORTH CHEATHAM STREET AND NORTH BYRANT STREET, SOUTHEAST OF WHITEHALL, GO WEST ON HIGHWAY 270 0.3 MILES TO THE MARK ON THE LEFT, SOUTH 27 FEET OF THE CENTELINE OF THE HIGHWAY AND WEST 26.2 FEET OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 350034" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350034A	Date Monumented 9/26/2016	Monumented By AHTD	County JEFFERSON	Route HEATHA	Job Number: 020626
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	575,492.5166 0.0020
Easting (M)	393,625.0968 0.0020
Elevation (M)*	79.138

Northing (SFT)	1,888,095.0315	
Easting (SFT)	1,291,418.3384	
Elevation (SFT)*	259.637	

Convergence Angle	0 2	19.4533010
Scale Factor	0.999925451	
Elevation Adjust. Factor	0.9999875809	
Combined Adjust. Factor	0.9999130328	

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF CINDER BLOCK B	49	25.00	82.0
MK # 2	SOUTHWEST CORNER OF CINDER BLOCK B	318	30.30	99.4
MK # 3	SS MANHOLE	173	17.00	55.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARLR Ref Mon # 3 ARPB	ELEVATION BASED ON DIGITAL LEVELS BY S5112 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270, HIGHWAY 365, NORTH CHEATHAM STREET AND NORTH BYRANT STREET, SOUTHEAST OF WHITEHALL, GO EAST ON CHEATHAM STREET 100 FEET TO THE MARK ON THE LEFT, SOUTH 15 FEET OF THE CENTELINE OF CHEATHAM STREET. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 350034A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	34 14 56.0602680
Longitude	92 4 9.1613748
Ellipsoid Height (M):	53.155 0.0050
Geoid Height (M):	-26.006 0.0017

AZ Mark Station	350034
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350035	Date Monumented 8/1/2017	Monumented By AHTD	County JEFFERSON	Route Sorrrells Rd	Job Number: 020615
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	565,299.8837	0.0030			
Easting (M)	392,730.1070	0.0040			
Elevation (M)*					
Northing (SFT)	1,854,654.7018				
Easting (SFT)	1,288,482.0260				
Elevation (SFT)*					

Convergence Angle	0	2	38.8597949
Scale Factor	0.999920749		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Intersection of Sorrells and Calloway Hill	6	161.40	529.5
MK # 2	Edge of Pavement	92	5.22	17.1
MK # 3	Intersection of Sorrells and County Lane	246	161.20	528.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPB Ref Mon # 2 ARMO Ref Mon # 3 ARLR	Three wire elevations and static GPS by Garver in August 2017 for job 020615. Elevations based on AHTD GPS Mon. 350027.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350036	Date Monumented 8/31/2017	Monumented By AHTD	County JEFFERSON	Route 79	Job Number: 020630
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	591,797.8920	0.0020			
Easting (M)	421,142.2708	0.0020			
Elevation (M)*	57.409				
Northing (SFT)	1,941,590.2507				
Easting (SFT)	1,381,697.6001				
Elevation (SFT)*	188.348				

Convergence Angle	0	7	43.2952342		
Scale Factor	0.999938289				
Elevation Adjust. Factor	0.9999909908				
Combined Adjust. Factor	0.9999292804				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
From the intersection of Hwy 79 and Hartley Dump Rd., a gravel rd., go West 0.7 miile to the station on the left. 6.5' N of witness post, 32.4' S of center of concrete B.R., 85' E of a PP					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Witness Post		1.98	6.5	AZ Mark Station 350036A
MK # 2	conc. B.R.		9.88	32.4	Geodetic Azimuth
MK # 3	Power Pole		25.91	85.0	Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPB	Position and elevation updated by crew S5113 in August 2017 during job 020630. Elevation determined by digital level from BMD3, which was determined by static GPS constraining the ortho. Ht. at ARPB.
Ref Mon # 2 ARLR	
Ref Mon # 3 ARWY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350036A	Date Monumented 8/31/2017	Monumented By AHTD	County JEFFERSON	Route 79	Job Number: 020630
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	591,797.4435	0.0020			
Easting (M)	420,567.2990	0.0020			
Elevation (M)*	58.753	0.0016			
Northing (SFT)	1,941,588.7792				
Easting (SFT)	1,379,811.2135				
Elevation (SFT)*	192.760				

Convergence Angle	0	7	30.6957703
Scale Factor	0.999938290		
Elevation Adjust. Factor	0.9999907798		
Combined Adjust. Factor	0.9999290703		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	350036
			Meters	Feet		
MK # 1	Witness Post		21.09	69.2	Geodetic Azimuth	
MK # 2	center of gravel rd.		16.15	53.0	Grid Azimuth	
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPB	Position and elevation updated by crew S5113 in August 2017 during job 020630. Elevation determined by digital level from BMD3, which was determined by static GPS constraining the ortho. Ht. at ARPB.
Ref Mon # 2 ARLR	
Ref Mon # 3 ARWY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360001	Date Monumented 5/6/1991	Monumented By AHTD	County JOHNSON	Route 215	Job Number: 1648
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas North</td> <td>301</td> </tr> <tr> <td>Horizontal Datum</td> <td>NAD 83 (1986)</td> </tr> <tr> <td>Northing (M)</td> <td>150,194.1150</td> </tr> <tr> <td>Easting (M)</td> <td>247,457.1150</td> </tr> <tr> <td>Elevation (M)*</td> <td></td> </tr> <tr> <td>Northing (SFT)</td> <td>492,761.8590</td> </tr> <tr> <td>Easting (SFT)</td> <td>811,865.5515</td> </tr> <tr> <td>Elevation (SFT)*</td> <td></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Convergence Angle</td> <td>0 58</td> <td>50.1219342</td> </tr> <tr> <td>Scale Factor</td> <td colspan="2">0.999937196</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td colspan="2"></td> </tr> <tr> <td>Combined Adjust. Factor</td> <td colspan="2"></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;"> SUPERCEDED CONTROL </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas North	301	Horizontal Datum	NAD 83 (1986)	Northing (M)	150,194.1150	Easting (M)	247,457.1150	Elevation (M)*		Northing (SFT)	492,761.8590	Easting (SFT)	811,865.5515	Elevation (SFT)*		Convergence Angle	0 58	50.1219342	Scale Factor	0.999937196		Elevation Adjust. Factor			Combined Adjust. Factor			Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Vertical Determined By:</td> <td style="width: 50%;">NONE</td> </tr> <tr> <td>Elevation Datum:</td> <td>NONE</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td>35 40 31.3607712</td> </tr> <tr> <td>Longitude</td> <td>93 41 6.5530572</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>233.824</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.992</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center; margin: 0;">Location Description</p> <p style="margin: 0;">FROM THE JCT. OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, FOLLOW THE COUNTY ROAD 9.35 MILES TO THE JCT. OF FS. RD. 1541 ON THE LEFT AND A FIELD ENTRANCE, GO RIGHT INTO FIELD AND SOUTHWEST THROUGH SECOND GATE. THE STATION IS 311.59 FEET ALONG THE FENCE AND 3.60 FEET NORTHEAST OF A WITNESS POST.</p> </div>	Vertical Determined By:	NONE	Elevation Datum:	NONE	Geoid Datum:		Latitude	35 40 31.3607712	Longitude	93 41 6.5530572	Ellipsoid Height (M):	233.824	Geoid Height (M):	-28.992
Zone	Zone Code																																																								
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Horizontal Datum																																																									
Latitude																																																									
Longitude																																																									
Ellipsoid Height:																																																									
Grid Northing (Meters)																																																									
Grid Easting (Meters)																																																									
Vertical Determined By:	NONE																																																								
Elevation Datum:	NONE																																																								
Geoid Datum:																																																									
Latitude	35 40 31.3607712																																																								
Longitude	93 41 6.5530572																																																								
Ellipsoid Height (M):	233.824																																																								
Geoid Height (M):	-28.992																																																								

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	GATE POST AT LATCH END OF GATE	100	94.97	311.6	AZ Mark Station 91360002
MK # 2	NBC IN TOP OF POST AT FENCE JCT	128	86.70	284.5	Geodetic Azimuth 97 17 32
MK # 3	NBC IN TOP FENCE POST AT CORNER OF G	26	29.83	97.9	Grid Azimuth 98 16 22

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 OZARPORT</p> <p>Ref Mon # 2 CLARPORT</p> <p>Ref Mon # 3 NONE</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;">Comments</p> <p>OLD PN: 91360001</p> </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360002	Date Monumented 5/6/1991	Monumented By AHTD	County JOHNSON	Route 215	Job Number: 1648
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	150,170.1040	
Easting (M)	247,622.2570	
Elevation (M)*		
Northing (SFT)	492,683.0829	
Easting (SFT)	812,407.3548	
Elevation (SFT)*		

Convergence Angle	0	58	46.2914936
Scale Factor	0.999937190		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
FROM THE JCT. OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, FOLLOW THE COUNTY ROAD 9.35 MILES TO THE JCT. OF FS. RD. 1541 ON THE LEFT AND A FIELD ENTRANCE ON THE RIGHT. THE STATION IS 260 FEET FROM THE ENTRANCE TO THE FIELD AND 2.3 FEET NORTHWEST OF THE SECOND COMBINATION POLE WEST OF THE BARN.			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NBC IN 4" LOCUST	60	36.86	120.9		
MK # 2	NBC IN COMBINATION POLE	115	56.89	186.6		
MK # 3	NW CORNER OF OLD CHICKEN HOUSE	135	44.39	145.6		

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	OZARPORT	OLD PN: 91360002
Ref Mon # 2	CLARPORT	
Ref Mon # 3	NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360003	Date Monumented 5/6/1991	Monumented By AHTD	County JOHNSON	Route 215	Job Number: 1648
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 149,687.0380		Geoid Datum:
Easting (M) 250,270.4050		Latitude 35 40 16.4571852
Elevation (M)* 		Longitude 93 39 14.3524692
Northing (SFT) 491,098.2238		Ellipsoid Height (M): 252.285
Easting (SFT) 821,095.4871		Geoid Height (M): -29.010
Elevation (SFT)* 		

Convergence Angle 0 57 44.8325099	Location Description FROM THE JCT. OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, GO 11.20 MILES TO THE YALE CEMETERY ENTRANCE, FOLLOW ROAD TO A FIELD ENTRANCE ON THE RIGHT, GO ACROSS FIELD TO THE THIRD COMBINATION POLE AND THE STATION. THE STATION IS 4.80 FEET FROM A WITNESS POST AND 166.98 FEET SOUTH OF THE COUNTY ROAD.
Scale Factor 0.999937084	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL	
Horizontal Datum 	
Latitude 	
Longitude 	
Ellipsoid Height: 	
Grid Northing (Meters) 	
Grid Easting (Meters) 	

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NBC IN COMBINATION POLE	112	116.70	382.9		91360004
MK # 2	NBC IN 24" WALNUT	112	45.11	148.0		115 04 33
MK # 3	NORTHEAST CORNER OF SHED	267	17.85	58.6		116 02 18

Area Reference Monuments (used for Processing) Ref Mon # 1 OZARPORT Ref Mon # 2 CLARPORT Ref Mon # 3 NONE	Comments OLD PN: 91360003
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360004	Date Monumented 5/6/1991	Monumented By AHTD	County JOHNSON	Route 215	Job Number: 1648
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	149,588.7409	
Easting (M)	250,471.6020	
Elevation (M)*		
Northing (SFT)	490,775.7274	
Easting (SFT)	821,755.5809	
Elevation (SFT)*		

Convergence Angle	0	57	40.1394112
Scale Factor	0.999937061		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 10" PERSIMMON	104	59.50	195.2
MK # 2	NBC IN COMBINATION POLE	19	46.23	151.7
MK # 3	NBC IN POWER POLE	342	65.81	215.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 OZARPORT Ref Mon # 2 CLARPORT Ref Mon # 3 NONE	OLD PN: 91360004

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 40 13.3776552

Longitude 93 39 6.2873280

Ellipsoid Height (M): 247.671

Geoid Height (M): -29.013

Location Description

FROM THE JCT. OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, GO 11.20 MILES TO THE YALE CEMETERY ENTRANCE, FOLLOW DRIVE TO A FIELD ENTRANCE ON RIGHT, GO THROUGH FIELD ENTRANCE TO FIRST COMBINATION POLE AND THE STATION, 7.00 FEET FROM WITNESS POST.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360005	Date Monumented 5/6/1991	Monumented By AHTD	County JOHNSON	Route 215	Job Number: 1648
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	151,263.1120	
Easting (M)	255,743.0890	
Elevation (M)*		
Northing (SFT)	496,269.0600	
Easting (SFT)	839,050.4512	
Elevation (SFT)*		

Convergence Angle	0	55	38.8041685
Scale Factor	0.999937514		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>FROM THE JCT OF HWY. 103 AND HWY. 215 NORTH OF CLARKSVILLE, GO RIGHT ON HWY. 215, 0.10 MILES TO GLORYLAND CHURCH. THE STATION IS SOUTHWEST OF THE CHURCH, ACROSS A FENCE, 12.85 FEET SOUTHWEST OF A DRILLED WELL, 188.79 FEET SOUTH OF THE CENTERLINE OF HWY. 215 AND 1.00 FEET NORTH OF A WITNESS POST.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN COMBINATION POLE W/LIGHT	14	42.37	139.0	
MK # 2	SOUTHWEST CORNER OF CHURCH	32	26.75	87.8	
MK # 3	NBC IN POWER POLE	72	29.01	95.2	

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	OZARPORT	<p>OLD PN: 91360005</p>
Ref Mon # 2	CLARPORT	
Ref Mon # 3	NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360006	Date Monumented 5/6/1991	Monumented By AHTD	County JOHNSON	Route 215	Job Number: 1648
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	151,180.8560	
Easting (M)	256,081.3690	
Elevation (M)*		
Northing (SFT)	495,999.1917	
Easting (SFT)	840,160.2915	
Elevation (SFT)*		

Convergence Angle	0	55	30.9453503
Scale Factor	0.999937493		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NBC IN POWER POLE	241	47.59	156.1		91360005
MK # 2	NBC IN 28" WALNUT	104	39.48	129.5		282 44 29
MK # 3	NORTHWEST CORNER OF BARN	128	20.92	68.6		283 40 00

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 OZARPORT	OLD PN: 91360006
Ref Mon # 2 CLARPORT	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360007	Date Monumented 5/6/1991	Monumented By AHTD	County JOHNSON	Route 215	Job Number: 1648
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1986)
Northing (M)	150,445.7100
Easting (M)	246,218.6340
Elevation (M)*	
Northing (SFT)	493,587.3002
Easting (SFT)	807,802.3017
Elevation (SFT)*	

Convergence Angle	0	59	18.8774393
Scale Factor	0.999937254		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	40	38.8328304
Longitude	93	41	55.9697064
Ellipsoid Height (M):	239.507		
Geoid Height (M):	-28.984		

Location Description
<p>FROM THE JCT OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, GO RIGHT 8.15 MILES TO A BARN AND A FIELD ENTRANCE ON THE RIGHT, GO THROUGH GATE AND TURN RIGHT, GO TO FIRST COMBINATION POLE. THE STATION IS 5.50 FEET NORTHEAST OF THE POLE AND WITNESS POST AND 75.27 FEET FROM THE CENTERLINE OF A COUNTY ROAD.</p>

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	SE CORNER OF WATER TROUGH	307	65.71	215.6		91240005 AZ. MK.
MK # 2	NBC IN COMBINATION POLE	67	2.17	7.1		293 01 35
MK # 3	NORTHWEST CORNER OF BARN	127	41.47	136.1		294 00 54

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	OZARPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	NONE
<p>OLD PN: 91360007</p>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360008	Date Monumented 11/13/2000	Monumented By AHTD	County JOHNSON	Route 164	Job Number: 080200
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	136,881.7980	
Easting (M)	253,751.9894	
Elevation (M)*		
Northing (SFT)	449,086.3656	
Easting (SFT)	832,517.9852	
Elevation (SFT)*		

Convergence Angle	0	56	19.4267065
Scale Factor	0.999936053		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 164 AND STATE HIGHWAY 103, LOCATED ABOUT 16.10 KM (10.00 MI) NORTHWEST OF CLARKSVILLE, GO WEST ON STATE HIGHWAY 103 FOR 4.38 KM (2.72 MI) TO THE STATION ON THE LEFT. THE STATION IS 20.75 METERS WEST OF THE CENTER OF A ROAD TO A PASTURE AND HOGAN CEMETERY, 10.65 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 164 AND 0.61 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "360008 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 581.162 METERS.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GATE POST	87	18.20	59.7
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="CLARPORT"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="OZARPORT"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360008A	Date Monumented 11/13/2000	Monumented By AHTD	County JOHNSON	Route 164	Job Number: 080200
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	136,906.6563	
Easting (M)	253,171.4100	
Elevation (M)*		
Northing (SFT)	449,167.9215	
Easting (SFT)	830,613.2010	
Elevation (SFT)*		

Convergence Angle	0	56	32.8494806
Scale Factor	0.999936052		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 164 AND STATE HIGHWAY 103, LOCATED ABOUT 16.10 KM (10.00 MI) NORTHWEST OF CLARKSVILLE, GO WEST ON STATE HIGHWAY 103 FOR 4.88 KM (3.03 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.00 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 164 AND 1.25 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "360008A 2000" SET ON TOP OF AN IRON ROD 0.61 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 581.162 METERS.</p>				

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	EAST IN LINE WOODEN POST	136	1.80	5.9		
MK # 2	WEST IN LINE WOODEN POST	211	1.70	5.6		
MK # 3	NONE					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="CLARPORT"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="OZARPORT"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360009	Date Monumented 3/18/2002	Monumented By AHTD	County JOHNSON	Route 103	Job Number: 080224,080314,080340
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	126,433.3360	
Easting (M)	267,575.7820	
Elevation (M)*	135.218	
Northing (SFT)	414,806.7032	
Easting (SFT)	877,871.5448	
Elevation (SFT)*	443.628	

Convergence Angle	0	50	56.4651965
Scale Factor	0.999938121		
Elevation Adjust. Factor	0.9999787803		
Combined Adjust. Factor	0.9999169026		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	40	13.65	44.8
MK # 2	MAN HOLE COVER	348	11.30	37.1
MK # 3	CENTER LINE OF CONCRETE CULVERT	5	11.25	36.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="OZARPORT"/>	Digital levels ran by crew S5102 in March 2009 from 1st order NGS marks S 294, R 294, & L 30.
Ref Mon # 2 <input type="text" value="CLARPORT"/>	
Ref Mon # 3 <input type="text"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360010	Date Monumented 10/24/2007	Monumented By AHTD	County JOHNSON	Route 64	Job Number: 080320
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	124,098.9841	
Easting (M)	273,738.4220	
Elevation (M)*	136.149	
Northing (SFT)	407,148.0837	
Easting (SFT)	898,090.1395	
Elevation (SFT)*	446.682	

Convergence Angle	0	48	33.4845471
Scale Factor	0.999938920		
Elevation Adjust. Factor	0.9999786342		
Combined Adjust. Factor	0.9999175555		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	134	2.59	8.5
MK # 2	GUY ANCHOR	315	17.07	56.0
MK # 3	COMBINATION POLE	131	17.68	58.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 100%;" type="text" value="RUSSPORT"/>	ELEVATIONS DETERMINED BY 3 WIRE LEVEL FROM P 294 10/24/07 BY S5102.
Ref Mon # 2 <input style="width: 100%;" type="text" value="OKHV"/>	
Ref Mon # 3 <input style="width: 100%;" type="text" value="ARHR"/>	

Vertical Determined By: 3rd Order - 3 Wire Level

Elevation Datum: NAVD 88

Geoid Datum:

Latitude

Longitude

Ellipsoid Height (M):

Geoid Height (M):

Location Description

TO REACH THE STATION MARK FORM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 123, IN LAMAR, GO EAST FOR 155 FEET TO THE STATION MARK ON THE LEFT, NORTHEAST OF THE CENTERLINE OF THE HIGHWAY 54.7 FEET AND SOUTHWEST 1.50 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "360010 2007" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360011	Date Monumented 12/5/2008	Monumented By AHTD	County JOHNSON	Route 123	Job Number: 080314,080340
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	126,471.8460	
Easting (M)	268,501.3380	
Elevation (M)*	127.800	
Northing (SFT)	414,933.0481	
Easting (SFT)	880,908.1398	
Elevation (SFT)*	419.291	

Convergence Angle	0	50	35.1187377
Scale Factor	0.999938104		
Elevation Adjust. Factor	0.9999799444		
Combined Adjust. Factor	0.9999180496		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 123 S (EUREKA RD.) AND STATE HIGHWAY 64, EAST OF CLARKSVILLE, GO SOUTH ON HIGHWAY 123 S (EUREKA RD.) FOR 1.7 MILES TO THE STATION MARK ON THE RIGHT, SOUTH EAST OF TRINITY CHAPEL PENECOSTAL CHURCH, WEST 26.0 FEET OF THE CENTER LINE OF A DITCH, SOUTH OF THE CENTER LINE OF THE HIGHWAY AND NORTH 22.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "360011 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	CENTER TRIPLE BOC CULVERT	120		9.60	31.5
MK # 2	SE CORNER BRICK CHURCH	321		29.87	98.0
MK # 3	FIBER OPTIC CABLE MKR	249		10.06	33.0

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARHR, OKHV, SAL5	Digital levels ran by crew S5102 in March 2009 from 1st order NGS marks S 294, R 294, & L 30.
Ref Mon # 2	Q 294	
Ref Mon # 3	360009	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360011A	Date Monumented 12/5/2008	Monumented By AHTD	County JOHNSON	Route 123	Job Number: 080314,080340
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	126,420.2260	
Easting (M)	269,008.5720	
Elevation (M)*	131.168	
Northing (SFT)	414,763.6915	
Easting (SFT)	882,572.2900	
Elevation (SFT)*	430.340	

Convergence Angle	0	50	23.3954944
Scale Factor	0.999938119		
Elevation Adjust. Factor	0.9999794159		
Combined Adjust. Factor	0.9999175362		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	73	19.20	63.0
MK # 2	LIGHT POLE	2	23.32	76.5
MK # 3	COMBINATION POLE W/4 GUYS	100	25.73	84.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR, OKHV, SAL5	Digital levels ran by crew S5102 in March 2009 from 1st order NGS marks S 294, R 294, & L 30.
Ref Mon # 2 Q 294	
Ref Mon # 3 360009	

AZ Mark Station	360011
Geodetic Azimuth	274 58 16
Grid Azimuth	275 48 39

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360012	Date Monumented 2/6/2012	Monumented By AHTD	County JOHNSON	Route 123	Job Number: 080444,080499
--------------------------	------------------------------------	------------------------------	--------------------------	---------------------	-------------------------------------

Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	150,181.0508	0.0040	
Easting (M)	287,344.0681	0.0030	
Elevation (M)*	231.146		
Northing (SFT)	492,718.9975		
Easting (SFT)	942,727.9968		
Elevation (SFT)*	758.352		

Convergence Angle	0	43	27.1766298
Scale Factor	0.999937344		
Elevation Adjust. Factor	0.9999637270		
Combined Adjust. Factor	0.9999010732		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	40	50.1913884
Longitude	93	14	40.4614428
Ellipsoid Height:	202.949		
Grid Northing (Meters)	150,181.0552		
Grid Easting (Meters)	287,344.0691		

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 164 AND STATE HIGHWAY 123, IN HAGARVILLE , GO NORTH ON HIGHWAY 123 15.55 MILES TO THE MARK ON THE LEFT, 24 FEET EAST ASPHALT APRON, 18 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY . THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "360011 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTH EAST CORNER OF A ONE STORY FR	32	12.62	41.4	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	<p>3 WIRE DIGITAL LEVELS WERE RAN FROM NGS BM TT 56 BY S5113 IN FEB 2012 DURING JOB 080444.</p> <p>*****UPDATE</p> <p>D TO NAD 83 (2011) IN AUG. OF 2016 FOR JOB # 080499</p> <p>*****</p>
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360012A	Date Monumented 2/6/2012	Monumented By AHTD	County JOHNSON	Route 123	Job Number: 080444,080499
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	150,121.7066 0.0040
Easting (M)	287,602.8337 0.0030
Elevation (M)*	233.641

Northing (SFT)	492,524.2991	
Easting (SFT)	943,576.9636	
Elevation (SFT)*	766.536	

Convergence Angle	0	43	21.1713798
Scale Factor	0.999937330		
Elevation Adjust. Factor	0.9999633355		
Combined Adjust. Factor	0.9999006678		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)
Latitude	35 40 48.3716892
Longitude	93 14 30.1412832
Ellipsoid Height:	205.432
Grid Northing (Meters)	150,121.7034
Grid Easting (Meters)	287,602.8364

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 123, IN HAGARVILLE , GO NORTH ON HIGHWAY 123 15.65 MILES TO THE MARK ON THE LEFT, AT THE NORTH END OF A GUARD RAIL, 18.0 FEET NORTH CENTERLINE OF THE HIGHWAY, 22.5 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "360011A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	28	8.96	29.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	3 WIRE DIGITAL LEVELS WERE RAN FROM NGS BM TT 56 BY S5113 IN FEB 2012 DURING JOB 080444. *****UPDATE D TO NAD 83 (2011) IN AUG. OF 2016 FOR JOB # 080499 *****
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360200	Date Monumented 2/14/2000	Monumented By AHTD	County JOHNSON	Route N/A	Job Number: 080176
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 119,030.1981		Geoid Datum:
Easting (M) 254,356.5290		Latitude 35 23 44.0033064
Elevation (M)* 		Longitude 93 36 12.0369672
Northing (SFT) 390,518.2416		Ellipsoid Height (M): 75.420
Easting (SFT) 834,501.3789		Geoid Height (M): -29.319
Elevation (SFT)* 		

Convergence Angle 0 55 58.7432782	
Scale Factor 0.999941329	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks			
Description	Azimuth	Distance	
		Meters	Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HAR 1	
Ref Mon # 2 AHTD LR 1	
Ref Mon # 3 SALLISAW 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360201	Date Monumented 2/14/2000	Monumented By AHTD	County JOHNSON	Route N/A	Job Number: 080176
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Zone	Zone Code	Vertical Determined By:
Arkansas North	301	NONE
Horizontal Datum	Elevation Datum:	
NAD 83 (1997)	NONE	
Geoid Datum:		
Northing (M)	119,107.4400	Latitude
Easting (M)	252,754.1410	35 23 45.6581184
Elevation (M)*		Longitude
		93 37 15.5806320
Northing (SFT)	390,771.6594	Ellipsoid Height (M):
Easting (SFT)	829,244.2109	77.284
Elevation (SFT)*		Geoid Height (M):
		-29.327

Convergence Angle	0	56	35.7192814
Scale Factor	0.999941303		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HAR 1	
Ref Mon # 2 AHTD LR 1	
Ref Mon # 3 SALLISAW 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360206	Date Monumented 2/14/2000	Monumented By AHTD	County JOHNSON	Route N/A	Job Number: 080176
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

Zone	Zone Code	Vertical Determined By:
Arkansas North	301	NONE
Horizontal Datum	Elevation Datum:	
NAD 83 (1997)	NONE	
Geoid Datum:		
Northing (M)	118,980.8680	Latitude
Easting (M)	255,259.5960	35 23 42.8784540
Elevation (M)*		Longitude
		93 35 36.2218992
Northing (SFT)	390,356.3978	Ellipsoid Height (M):
Easting (SFT)	837,464.1912	75.542
Elevation (SFT)*		Geoid Height (M):
		-29.314

Convergence Angle	0	55	37.9025214
Scale Factor	0.999941347		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>AHTD HAR 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD LR 1</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SALLISAW 1</td> </tr> </table>	Ref Mon # 1	AHTD HAR 1	Ref Mon # 2	AHTD LR 1	Ref Mon # 3	SALLISAW 1	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	AHTD HAR 1						
Ref Mon # 2	AHTD LR 1						
Ref Mon # 3	SALLISAW 1						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360207	Date Monumented 2/14/2000	Monumented By AHTD	County JOHNSON	Route N/A	Job Number: 080176
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 118,939.9031		Geoid Datum:
Easting (M) 256,053.7180		Latitude 35 23 41.9651772
Elevation (M)* 		Longitude 93 35 4.7292936
Northing (SFT) 390,221.9988		Ellipsoid Height (M): 81.758
Easting (SFT) 840,069.5731		Geoid Height (M): -29.310
Elevation (SFT)* 		

Convergence Angle 0 55 19.5770016	
Scale Factor 0.999941361	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks			
Description	Azimuth	Distance	
		Meters	Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HAR 1	
Ref Mon # 2 AHTD LR 1	
Ref Mon # 3 SALLISAW 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360218	Date Monumented 2/14/2000	Monumented By AHTD	County JOHNSON	Route N/A	Job Number: 080176
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	------------------------------

Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 120,640.0831		Geoid Datum:
Easting (M) 254,438.4470		Latitude 35 24 36.2797164
Elevation (M)* 		Longitude 93 36 9.8294616
Northing (SFT) 395,800.0060		Ellipsoid Height (M): 78.053
Easting (SFT) 834,770.1382		Geoid Height (M): -29.280
Elevation (SFT)* 		

Convergence Angle 0 55 57.4587326	
Scale Factor 0.999940531	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks			
Description	Azimuth	Distance	
		Meters	Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HAR 1	
Ref Mon # 2 AHTD LR 1	
Ref Mon # 3 SALLISAW 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360219	Date Monumented 9/24/2012	Monumented By S5112	County Johnson	Route 64	Job Number: 080437
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	126,375.4474	
Easting (M)	261,706.1859	
Elevation (M)*	121.084	
Northing (SFT)	414,616.7803	
Easting (SFT)	858,614.3782	
Elevation (SFT)*	397.255	

Convergence Angle	0	53	11.8986955
Scale Factor	0.999938170		
Elevation Adjust. Factor	0.9999809984		
Combined Adjust. Factor	0.9999191696		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Light Pole	50	24.38	80.0
MK # 2	SW corner Brick Building	97	30.11	98.8
MK # 3	Nite Lite Outdoor Sign	210	20.73	68.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 ARLR Ref Mon # 3 ARHR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ELEV. DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BENCHMARKS W 294 & X 294 BY S5112 SEPT. 2012 FOR JOB #080437. *NOTE: ELEV. DERIVED FROM DIGITAL LEVELS WAS USED AS A CONSTRAINT ON THIS MONUMENT IN THE FINAL STATIC ADJUSTMENT. </td> </tr> </table>	Comments	ELEV. DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BENCHMARKS W 294 & X 294 BY S5112 SEPT. 2012 FOR JOB #080437. *NOTE: ELEV. DERIVED FROM DIGITAL LEVELS WAS USED AS A CONSTRAINT ON THIS MONUMENT IN THE FINAL STATIC ADJUSTMENT.
Comments			
ELEV. DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BENCHMARKS W 294 & X 294 BY S5112 SEPT. 2012 FOR JOB #080437. *NOTE: ELEV. DERIVED FROM DIGITAL LEVELS WAS USED AS A CONSTRAINT ON THIS MONUMENT IN THE FINAL STATIC ADJUSTMENT.			

Location Description
To reach the station mark from the junction of I 40 and State Hwy 64 (west Main Street), South West of Clarksville, go west on Hwy 64 0.2 miles to the mark on the left, South West 32.5' of the center line, and North West 1.7' of a witness post. The mark is a standard 2.5" cap stamped "360219 2012" on top of a 4' rebar driven below the surface of the ground.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360219A	Date Monumented 9/24/2012	Monumented By S5112	County Johnson	Route 64	Job Number: 080437
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	126,095.2662	
Easting (M)	261,246.4780	
Elevation (M)*	116.681	
Northing (SFT)	413,697.5525	
Easting (SFT)	857,106.1532	
Elevation (SFT)*	382.810	

Convergence Angle	0	53	22.4069168
Scale Factor	0.999938266		
Elevation Adjust. Factor	0.9999816893		
Combined Adjust. Factor	0.9999199565		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Gas Meter	272	9.14	30.0
MK # 2	Combination Pole with Guy	245	13.56	44.5
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARHR</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARFY	Ref Mon # 2	ARLR	Ref Mon # 3	ARHR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ELEV. DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BENCHMARKS W 294 & X 294 BY S5112 SEPT. 2012 FOR JOB #080437. *NOTE: ELEV. DERIVED FROM DIGITAL LEVELS WAS USED AS A CONSTRAINT ON THIS MONUMENT IN THE FINAL STATIC ADJUSTMENT. </td> </tr> </table>	Comments	ELEV. DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BENCHMARKS W 294 & X 294 BY S5112 SEPT. 2012 FOR JOB #080437. *NOTE: ELEV. DERIVED FROM DIGITAL LEVELS WAS USED AS A CONSTRAINT ON THIS MONUMENT IN THE FINAL STATIC ADJUSTMENT.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARFY										
Ref Mon # 2	ARLR										
Ref Mon # 3	ARHR										
Comments											
ELEV. DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BENCHMARKS W 294 & X 294 BY S5112 SEPT. 2012 FOR JOB #080437. *NOTE: ELEV. DERIVED FROM DIGITAL LEVELS WAS USED AS A CONSTRAINT ON THIS MONUMENT IN THE FINAL STATIC ADJUSTMENT.											

Location Description	
To reach the station mark from the junction of I 40 and State Hwy 64 (west Main Street), South West of Clarksville, go west on Hwy 64 0.5 miles to the mark on the Right, North West 28.2' of the center line and 52.5' South West of an asphalt drive. The mark is a standard 2.5" cap stamped "360219A 2012" on top of a 4' rebar driven below the surface of the ground.	

AZ Mark Station	360219
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360220	Date Monumented 3/12/2015	Monumented By AHTD	County JOHNSON	Route 64	Job Number: 080497
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	116,129.1613	0.0030			
Easting (M)	276,892.7685	0.0030			
Elevation (M)*	116.006				
Northing (SFT)	381,000.4234				
Easting (SFT)	908,439.0247				
Elevation (SFT)*	380.597				

Convergence Angle	0	47	18.1770180
Scale Factor	0.999942729		
Elevation Adjust. Factor	0.9999817952		
Combined Adjust. Factor	0.9999245252		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						G 294
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	ELEVATION BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM G 294 IN MARCH OF 2015 FOR JOB #080497.
Ref Mon # 2 ARHR	
Ref Mon # 3 P777	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360221	Date Monumented 7/27/2016	Monumented By AHTD	County JOHNSON	Route 123	Job Number: 080499
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	148,699.4617	0.0040			
Easting (M)	285,195.6969	0.0030			
Elevation (M)*	299.976				
Northing (SFT)	487,858.1506				
Easting (SFT)	935,679.5489				
Elevation (SFT)*	984.170				

Convergence Angle	0	44	16.4489964
Scale Factor	0.999936975		
Elevation Adjust. Factor	0.9999529263		
Combined Adjust. Factor	0.9998899042		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 123N AND STATE HIGHWAY 164E, IN HARGARVILLE, GO NORTH ON 123 FOR 13.45 MILES TO THE MARK ON THE LEFT AND WEST 31.8 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 3600221" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTH END OF GUARDRAIL	150	106.00	347.8	AZ Mark Station N/A
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 ARHR Ref Mon # 3 ARLR	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM TT 56 BY S5112 IN AUG. OF 2016 FOR JOB # 080499.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360222	Date Monumented 8/16/2016	Monumented By AHTD	County JOHNSON	Route 123	Job Number: 080499
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	150,064.9604	0.0040			
Easting (M)	285,967.3250	0.0040			
Elevation (M)*	249.867				
Northing (SFT)	492,338.1242				
Easting (SFT)	938,211.1321				
Elevation (SFT)*	819.771				

Convergence Angle	0	43	59.0005283
Scale Factor	0.999937310		
Elevation Adjust. Factor	0.9999607893		
Combined Adjust. Factor	0.9998981018		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH OF NORTH EDGE OF HAW CR FALL	150	14.80	48.6
MK # 2	SOUTH END OF FLARED CMP	70	27.00	88.6
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 ARHR Ref Mon # 3 ARLR	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM TT 56 BY S5112 IN AUG. OF 2016 FOR JOB # 080499.

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 123N AND STATE HIGHWAY 164E, IN HARGARVILLE, GO NORTH ON 123 FOR 14.5 MILES TO THE MARK ON THE RIGHT AND WEST 35 FEET OF THE CENTER LINE OF THE DRIVE TO HAW CREEK FALLS AND SOUTH 17.6' OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 360222" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	N/A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360223	Date Monumented 9/25/2019	Monumented By ARDOT	County JOHNSON	Route 103	Job Number: 080617
--------------------------	-------------------------------------	-------------------------------	--------------------------	---------------------	------------------------------

Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	151,231.9485	0.0020			
Easting (M)	255,335.2812	0.0020			
Elevation (M)*					
Northing (SFT)	496,166.8177				
Easting (SFT)	837,712.5017				
Elevation (SFT)*					

Convergence Angle	0	55	48.2294554
Scale Factor	0.999937504		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 103 AND STATE HIGHWAY 215, SOUTH OF OARK, GO SOUTH ON HIGHWAY 103 0.15 MILES TO THE MARK ON THE RIGHT, NORTHWEST OF THE C/L OF THE HIGHWAY 18.3'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 360223" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 ARHR Ref Mon # 3 ARRV	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360223A	Date Monumented 9/25/2019	Monumented By ARDOT	County JOHNSON	Route 215	Job Number: 080617
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	151,308.6517 0.0020
Easting (M)	255,717.7886 0.0020
Elevation (M)*	

Northing (SFT)	496,418.4681	
Easting (SFT)	838,967.4448	
Elevation (SFT)*		

Convergence Angle	0	55	39.4067022
Scale Factor	0.999937527		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 103 AND STATE HIGHWAY 215, SOUTH OF OARK, GO NORTH ON HIGHWAY 215 0.1 MILES TO THE MARK ON THE RIGHT, EAST OF THE C/L OF THE HIGHWAY 21.2 AND 96.5' WEST OF A DRIVEWAY'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 360223A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	FIRE HYDRANT	233	17.22	56.5	360223
MK # 2	FENCE CORNER	240	24.54	80.5	
MK # 3	NORTH END OF FENCE	107	12.68	41.6	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	
Ref Mon # 2 ARHR	
Ref Mon # 3 ARR V	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370001	Date Monumented 4/14/1994	Monumented By AHTD	County LAFAYETTE	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 477,558.7771		Latitude 33 21 15.5068380
Easting (M) 243,220.8840		Longitude 93 41 4.1333064
Elevation (M)* 69.901		Ellipsoid Height (M): 42.630
Northing (SFT) 1,566,790.7545		Geoid Height (M): -27.271
Easting (SFT) 797,967.1836		
Elevation (SFT)* 229.334		

Convergence Angle	0	56	34.0389353
Scale Factor	0.999988407		
Elevation Adjust. Factor	0.9999890304		
Combined Adjust. Factor	0.9999774375		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station 370001A
MK # 2	NONE				Geodetic Azimuth 302 12 25.42162
MK # 3	NONE				Grid Azimuth 303 08 59.56815

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>HOPEPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MAGAPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>GARLAND</td> </tr> </table>	Ref Mon # 1	HOPEPORT	Ref Mon # 2	MAGAPORT	Ref Mon # 3	GARLAND	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	HOPEPORT						
Ref Mon # 2	MAGAPORT						
Ref Mon # 3	GARLAND						

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370001A	Date Monumented 4/14/1994	Monumented By AHTD	County LAFAYETTE	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	477,923.4011	
Easting (M)	242,662.6140	
Elevation (M)*	70.466	
Northing (SFT)	1,567,987.0251	
Easting (SFT)	796,135.5928	
Elevation (SFT)*	231.187	

Convergence Angle	0	56	46.2528164
Scale Factor	0.999987751		
Elevation Adjust. Factor	0.9999889417		
Combined Adjust. Factor	0.9999766928		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN FENCE BRACE POST	158	1.85	6.1
MK # 2	NBC IN GATE POST	297	10.25	33.6
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>HOPEPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MAGAPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>GARLAND</td> </tr> </table>	Ref Mon # 1	HOPEPORT	Ref Mon # 2	MAGAPORT	Ref Mon # 3	GARLAND	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	HOPEPORT							
Ref Mon # 2	MAGAPORT							
Ref Mon # 3	GARLAND							
Comments								

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 21 27.0418284
Longitude	93 41 25.9558620
Ellipsoid Height (M):	43.188
Geoid Height (M):	-27.278

Location Description
FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO EAST ON HWY. 82 FOR 2.98 KM (1.85 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 23.5 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 5.20 METERS EAST OF A PAVED FIELD ENTRANCE AND 1.0 METERS NORTHEAST OF A WITNESS POST AND FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370002	Date Monumented 4/14/1994	Monumented By AHTD	County LAFAYETTE	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 477,882.2721		Latitude 33 21 28.3358988
Easting (M) 247,646.1750		Longitude 93 38 13.1950644
Elevation (M)* 70.590		Ellipsoid Height (M): 43.347
Northing (SFT) 1,567,852.0877		Geoid Height (M): -27.243
Easting (SFT) 812,485.8258		
Elevation (SFT)* 231.594		

Convergence Angle 0 54 58.3663932	
Scale Factor 0.999987677	
Elevation Adjust. Factor 0.9999889222	
Combined Adjust. Factor 0.9999765994	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST END OF BRIDGE	240	4.15	13.6
MK # 2	NORTHEASTERN MOST GUARD RAIL POST	80	12.35	40.5
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	RECOVERED 7/10/2000 BY S5111
Ref Mon # 2 MAGAPORT	
Ref Mon # 3 GARLAND	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370002A	Date Monumented 4/14/1994	Monumented By AHTD	County LAFAYETTE	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	477,923.9261	
Easting (M)	248,068.6280	
Elevation (M)*	70.671	
Northing (SFT)	1,567,988.7475	
Easting (SFT)	813,871.8237	
Elevation (SFT)*	231.860	

Convergence Angle	0	54	49.2364772
Scale Factor	0.999987588		
Elevation Adjust. Factor	0.9999889095		
Combined Adjust. Factor	0.9999764977		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTHEAST BRIDGE CORNER	245	7.90	25.9	AZ Mark Station 370002
MK # 2	NORTHEASTERN MOST GUARD RAIL POST	80	4.55	14.9	Geodetic Azimuth 263 27 18.48788
MK # 3	NONE				Grid Azimuth 264 22 07.80444

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT Ref Mon # 2 MAGAPORT Ref Mon # 3 GARLAND	RECOVERED 7/10/2000 BY S5111

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370003	Date Monumented 4/14/1994	Monumented By AHTD	County LAFAYETTE	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	477,680.3011	
Easting (M)	252,048.4710	
Elevation (M)*	83.564	
Northing (SFT)	1,567,189.4545	
Easting (SFT)	826,929.0253	
Elevation (SFT)*	274.160	

Convergence Angle	0	53	23.0070532
Scale Factor	0.999987922		
Elevation Adjust. Factor	0.9999868863		
Combined Adjust. Factor	0.9999748084		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN POWER POLE	332			26.10	85.6
MK # 2	NONE					
MK # 3	NONE					

Area Reference Monuments (used for Processing) Ref Mon # 1 HOPEPORT Ref Mon # 2 MAGAPORT Ref Mon # 3 GARLAND	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>NOT FOUND 7/10/2000 BY S5111</td> </tr> </table>	Comments	NOT FOUND 7/10/2000 BY S5111
Comments			
NOT FOUND 7/10/2000 BY S5111			

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 21 24.0328368
Longitude	93 35 22.8164208
Ellipsoid Height (M):	56.354
Geoid Height (M):	-27.210

Location Description
FROM THE JCT. OF HWY. 82 AND HWY. 29 IN LEWISVILLE, GO WEST ON HWY. 82 FOR 1.29 KM (0.80 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 25.60 METERS NORTH OF THE CENTERLINE OF HWY. 82, 15.0 METERS SOUTH OF THE CENTER OF A PAVED STREET AND 1.14 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370003" SET ON TOP OF A3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370003A	Date Monumented 4/14/1994	Monumented By AHTD	County LAFAYETTE	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 477,528.9472		Latitude 33 21 19.4947668
Easting (M) 252,792.6270		Longitude 93 34 53.9463540
Elevation (M)* 82.080		Ellipsoid Height (M): 54.876
		Geoid Height (M): -27.204

Northing (SFT) 1,566,692.8876		
Easting (SFT) 829,370.4771		
Elevation (SFT)* 269.291		

Convergence Angle 0 53 6.8487457		
Scale Factor 0.999988180		
Elevation Adjust. Factor 0.9999871191		
Combined Adjust. Factor 0.9999752993		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
<p>FROM THE JCT. OF HWY. 82 AND HWY. 29 IN LEWISVILLE, GO WEST ON HWY. 82 FOR 0.48 KM (0.30 MILES) TO THE STATION ON THE LEFT SOUTHWEST AND ACROSS THE HIGHWAY FROM THE LEWISVILLE MUNICIPAL BUILDING. THE STATION IS 13.0 METERS SOUTH OF THE CENTER LINE OF HWY. 82, 6.0 METERS EAST OF A PAVED PULL-OFF, 13.5 METERS NORTH OF THE NORTH RAIL OF A RAILROAD TRACK AND 1.0 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370003A" SET ON TOP OF A3/4" REBAR THAT IS 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>				

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN POWER POLE	250	13.30	43.6	AZ Mark Station 370003
MK # 2	NONE				Geodetic Azimuth 280 36 40.88667
MK # 3	NONE				Grid Azimuth 281 29 47.87765

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	NOT FOUND 7/10/2000 BY S5111
Ref Mon # 2 MAGAPORT	
Ref Mon # 3 GARLAND	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370004	Date Monumented 4/14/1994	Monumented By AHTD	County LAFAYETTE	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 477,895.1331		Latitude 33 21 32.4973980
Easting (M) 255,039.1990		Longitude 93 33 27.2784852
Elevation (M)* 98.776		Ellipsoid Height (M): 71.585
		Geoid Height (M): -27.191

Northing (SFT) 1,567,894.2825		
Easting (SFT) 836,741.1054		
Elevation (SFT)* 324.068		

Convergence Angle 0 52 18.3415466		
Scale Factor 0.999987441		
Elevation Adjust. Factor 0.9999844991		
Combined Adjust. Factor 0.9999719403		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN POWER POLE	19	24.30	79.7	AZ Mark Station 370004A
MK # 2	NBC IN FENCE POST	320	12.55	41.2	Geodetic Azimuth 230 04 43.54568
MK # 3	NONE				Grid Azimuth 230 57 01.93588

Area Reference Monuments (used for Processing) Ref Mon # 1 HOPEPORT Ref Mon # 2 MAGAPORT Ref Mon # 3 BEECH	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Comments</td> </tr> <tr> <td>NOT FOUND 7/10/2000 BY S5111</td> </tr> </table>	Comments	NOT FOUND 7/10/2000 BY S5111
Comments			
NOT FOUND 7/10/2000 BY S5111			

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370004A	Date Monumented 4/14/1994	Monumented By AHTD	County LAFAYETTE	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	477,684.6641				
Easting (M)	254,779.7500				
Elevation (M)*	92.994				
Northing (SFT)	1,567,203.7688				
Easting (SFT)	835,889.8965				
Elevation (SFT)*	305.098				

Convergence Angle	0	52	23.8881966
Scale Factor	0.999987836		
Elevation Adjust. Factor	0.9999854064		
Combined Adjust. Factor	0.9999732426		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>FROM THE JCT. OF HWY. 82 AND HWY. 29 IN LEWISVILLE, GO EAST ON HWY. 82 FOR 1.61 KM (1.0 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 21.4 METERS SOUTHEAST OF THE CENTERLINE OF HWY. 82 AND 2.2 METERS NORTH OF A WITNESS POST AND FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370004A" SET ON TOP OF A3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					370004
MK # 2	NONE					50 04 38.096363
MK # 3	NONE					50 57 01.935875

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT Ref Mon # 2 MAGAPORT Ref Mon # 3 BEECH	REBAR BENT, CAP MISSING 7/10/2000 BY S5111

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370005	Date Monumented 4/20/1994	Monumented By AHTD	County LAFAYETTE	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	478,435.5391	
Easting (M)	262,765.2780	
Elevation (M)*	85.728	
Northing (SFT)	1,569,667.2645	
Easting (SFT)	862,089.0829	
Elevation (SFT)*	281.259	

Convergence Angle	0	49	31.2674344
Scale Factor	0.999986242		
Elevation Adjust. Factor	0.9999865467		
Combined Adjust. Factor	0.9999727888		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN CORNER POST OF FENCE		286	23.20	76.1
MK # 2	NONE				
MK # 3	NONE				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>HOPEPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MAGAPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>BEECH</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	HOPEPORT	Ref Mon # 2	MAGAPORT	Ref Mon # 3	BEECH	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	HOPEPORT										
Ref Mon # 2	MAGAPORT										
Ref Mon # 3	BEECH										
Comments											

Vertical Determined By: LEVEL - Unkown Quality	
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 21 53.7504120
Longitude	93 28 28.7669748
Ellipsoid Height (M):	58.617
Geoid Height (M):	-27.146

Location Description
<p>FROM THE JCT. OF HWY. 82 AND HWY. 82T IN THE EASTERN PART OF STAMPS, GO EAST ON HWY. 82 FOR 1.37 KM (0.85 MILES) TO THE STATION ON THE LEFT. THE STATION IS ABOUT 120 METERS WEST OF A PAVED ROAD LEADING NORTH, 21.8 METERS NORTH OF THE CENTERLINE OF HWY. 82, 33 METERS EAST OF A PAVED DRIVEWAY AND 2.0 METERS SOUTH OF A WITNESS POST AND A FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370005" SET ON TOP OF A 3/4" REBAR 1.22 METERS LONG AND IS FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370005A	Date Monumented 4/20/1994	Monumented By AHTD	County LAFAYETTE	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 478,252.9101		Latitude 33 21 48.1130172
Easting (M) 263,386.7890		Longitude 93 28 4.6265412
Elevation (M)* 88.663		Ellipsoid Height (M): 61.572
		Geoid Height (M): -27.140

Northing (SFT) 1,569,068.0892		
Easting (SFT) 864,128.1569		
Elevation (SFT)* 290.889		

Convergence Angle 0 49 17.7562585		
Scale Factor 0.999986559		
Elevation Adjust. Factor 0.9999860861		
Combined Adjust. Factor 0.9999726453		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 82T IN EASTERN STAMPS, GO EAST ON HWY. 82 FOR 2.01 KM (1.25 MILES) TO THE STATION ON THE RIGHT IN A ROADSIDE PARK. THE STATION IS 20.2 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 20.4 METERS NORTH OF THE CENTER OF THE ROAD GOING THROUGH THE PARK AND 1.0 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370005A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NBC IN POWER POLE	132	17.60	57.7		370005
MK # 2	NONE					285 33 13.01857
MK # 3	NONE					286 22 30.89235

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	
Ref Mon # 2 MAGAPORT	
Ref Mon # 3 BEECH	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370006	Date Monumented 4/20/1994	Monumented By AHTD	County LAFAYETTE	Route 82	Job Number: RX0018,07ST01,030343
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	477,924.5147
Easting (M)	264,993.0009
Elevation (M)*	96.963
Northing (SFT)	1,567,990.6786
Easting (SFT)	869,397.8705
Elevation (SFT)*	318.121

Convergence Angle	0 48 42.8847654
Scale Factor	0.999987118
Elevation Adjust. Factor	0.9999847835
Combined Adjust. Factor	0.9999719017

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	33	21	38.2088052
Longitude	93	27	2.3082048
Ellipsoid Height:	69.856		
Grid Northing (Meters)	477,924.8451		
Grid Easting (Meters)	264,993.3520		

Location Description			
<p>FROM THE JCT. OF HWY. 82 AND HWY. 82T IN EASTERN STAMPS, GO EAST ON HWY. 82 FOR 3.70 KM (2.30 MILES) TO THE STATION ON THE LEFT. THE STATION IS 21.8 METERS NORTH OF THE CENTERLINE OF HWY. 82 AND 1.20 METERS SOUTH OF A WITNESS POST SET IN A FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370006" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	284	19.00	62.3
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP Ref Mon # 2 ARCM Ref Mon # 3 SHRV	<p>***PREVIOUS ELEV. (96.962 m) FROM UNDOCUMENTED SOURCE*** PREVIOUS UPDATED ELEV. (318.1244') BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM T 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, Q 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING). *****UPDATE</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370007	Date Monumented 4/20/1994	Monumented By AHTD	County LAFAYETTE	Route 82	Job Number: RX0018,07ST01
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	477,729.2723				
Easting (M)	267,732.7677				
Elevation (M)*	81.267				
Northing (SFT)	1,567,350.1209				
Easting (SFT)	878,386.5887				
Elevation (SFT)*	266.625				

Convergence Angle	0	47	43.5181766
Scale Factor	0.999987406		
Elevation Adjust. Factor	0.9999872466		
Combined Adjust. Factor	0.9999746528		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	33	21	33.1196112
Longitude	93	25	16.2388884
Ellipsoid Height:	54.199		
Grid Northing (Meters)	477,729.6091		
Grid Easting (Meters)	267,733.0920		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN POWER POLE		72	24.10	79.1
MK # 2	UNDERGROUND GAS LINE MARKER		340	12.00	39.4
MK # 3	NONE				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SHRV</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARHP	Ref Mon # 2	ARCM	Ref Mon # 3	SHRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> <p>***PREVIOUS ELEV. (81.310 m) FROM UNDOCUMENTED SOURCE*** UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM Q 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).</p> </td> </tr> </table>	Comments	<p>***PREVIOUS ELEV. (81.310 m) FROM UNDOCUMENTED SOURCE*** UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM Q 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).</p>
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARHP										
Ref Mon # 2	ARCM										
Ref Mon # 3	SHRV										
Comments											
<p>***PREVIOUS ELEV. (81.310 m) FROM UNDOCUMENTED SOURCE*** UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM Q 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).</p>											

Location Description	
<p>FROM THE JCT. OF HWY. 82 AND HWY. 53 NORTH IN BUCKNER, GO EAST ON HWY. 82 FOR 1.37 KM (0.85 MILES) TO THE STATION ON THE LEFT. THE STATION IS 24.3 METERS NORTH OF THE CENTERLINE OF HWY. 82, 37.0 METERS WEST OF AN OLD DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370007" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370008	Date Monumented 6/6/2000	Monumented By AHTD	County LAFAYETTE	Route 160	Job Number: 030182
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	448,545.3899	
Easting (M)	226,802.1067	
Elevation (M)*	66.177	
Northing (SFT)	1,471,602.6667	
Easting (SFT)	744,099.9117	
Elevation (SFT)*	217.116	

Convergence Angle	-1	2	18.0257115
Scale Factor	1.000053137		
Elevation Adjust. Factor	0.9999896148		
Combined Adjust. Factor	1.0000427512		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN TOP OF A GUARD RAIL POST	242	4.05	13.3
MK # 2	PUNCH MARK IN TOP OF A GUARD RAIL POST	176	1.05	3.4
MK # 3	PUNCH MARK IN TOP OF A GUARD RAIL POST	90	5.70	18.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 100%;" type="text" value="MOSS"/> Ref Mon # 2 <input style="width: 100%;" type="text" value="X 303"/> Ref Mon # 3 <input style="width: 100%;" type="text" value="AHTD HOPE 1"/>	ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 5 24.7002792
Longitude	93 51 18.7348788
Ellipsoid Height (M):	39.781
Geoid Height (M):	-26.457

Location Description
<p>TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 0.32 KM (0.20 MI) TO THE EAST END OF THE BRIDGE AND THE STATION ON THE LEFT. THE STATION IS 9.45 METERS EAST OF THE NORTHEAST CORNER OF THE BRIDGE, 5.80 METERS NORTH OF THE CENTER OF STATE HIGHWAY 160 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370008 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 583.259 METERS.</p>

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370008A	Date Monumented 6/6/2000	Monumented By AHTD	County LAFAYETTE	Route 160	Job Number: 030182
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 448,648.9121		Latitude 33 5 28.3969464
Easting (M) 227,376.1251		Longitude 93 50 56.6769048
Elevation (M)* 64.182		Ellipsoid Height (M): 37.803
		Geoid Height (M): -26.456

Northing (SFT) 1,471,942.3058	Easting (SFT) 745,983.1704	Location Description
Elevation (SFT)* 210.570		<p>TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 0.89 KM (0.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.40 METERS NORTH OF THE CENTER OF STATE HIGHWAY 160 AND 1.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370008A SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 583.259 METERS.</p>
Convergence Angle -1 2 5.6800689		
Scale Factor 1.000052845		
Elevation Adjust. Factor 0.9999899279		
Combined Adjust. Factor 1.0000427723		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station 370008
MK # 2	NONE				Geodetic Azimuth 258 44 30.65155
MK # 3	NONE				Grid Azimuth 259 46 36.48296

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 MOSS</p> <p>Ref Mon # 2 X 303</p> <p>Ref Mon # 3 AHTD HOPE 1</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370009	Date Monumented 6/6/2000	Monumented By AHTD	County LAFAYETTE	Route 160	Job Number: 030182
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 450,531.7246		Latitude 33 6 31.4351928
Easting (M) 230,709.1152		Longitude 93 48 49.4643960
Elevation (M)* 67.472		Ellipsoid Height (M): 41.048
		Geoid Height (M): -26.459

Northing (SFT) 1,478,119.4998		
Easting (SFT) 756,918.1555		
Elevation (SFT)* 221.365		

Convergence Angle -1 0 54.4804124		
Scale Factor 1.000047911		
Elevation Adjust. Factor 0.9999894115		
Combined Adjust. Factor 1.0000373220		

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Description

TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 4.86 KM (3.02 MI) TO THE STATION ON THE LEFT SET ON TOP OF A LEVEE. THE STATION IS 20.17 METERS NORTH OF THE CENTER OF STATE HIGHWAY 160 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370009 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 785.325 METERS.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MOSS	ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2
Ref Mon # 2 X 303	
Ref Mon # 3 AHTD HOPE 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370009A	Date Monumented 6/6/2000	Monumented By AHTD	County LAFAYETTE	Route 160	Job Number: 030182
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 449,747.1467		Latitude 33 6 5.9530392
Easting (M) 230,674.1020		Longitude 93 48 50.2783992
Elevation (M)* 62.997		Ellipsoid Height (M): 36.605
Northing (SFT) 1,475,545.4305		Geoid Height (M): -26.452
Easting (SFT) 756,803.2830		
Elevation (SFT)* 206.683		

Convergence Angle -1 0 54.9360025	Scale Factor 1.000049894
Elevation Adjust. Factor 0.9999901138	Combined Adjust. Factor 1.0000400073

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MOSS	ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2
Ref Mon # 2 X 303	
Ref Mon # 3 AHTD HOPE 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370010	Date Monumented 6/6/2000	Monumented By AHTD	County LAFAYETTE	Route 160	Job Number: 030182
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	452,836.1058	
Easting (M)	234,025.2755	
Elevation (M)*	63.853	
Northing (SFT)	1,485,679.7904	
Easting (SFT)	767,797.9247	
Elevation (SFT)*	209.490	

Convergence Angle	0	59	43.7732507
Scale Factor	1.000042033		
Elevation Adjust. Factor	0.9999899795		
Combined Adjust. Factor	1.0000320121		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 9.33 KM (5.80 MI) TO THE STATION ON THE LEFT. THE STATION IS ABOUT 70 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 160, 28.00 METERS EAST OF THE CENTER OF A PAVED ROAD, 6.65 METERS SOUTH OF THE CENTER OF A PAVED ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370010 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 836.799 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 MOSS</p> <p>Ref Mon # 2 X 303</p> <p>Ref Mon # 3 AHTD HOPE 1</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370010A	Date Monumented 6/6/2000	Monumented By AHTD	County LAFAYETTE	Route 160	Job Number: 030182
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	452,806.8243	
Easting (M)	234,861.5837	
Elevation (M)*	63.471	
Northing (SFT)	1,485,583.7227	
Easting (SFT)	770,541.7125	
Elevation (SFT)*	208.239	

Convergence Angle	0	59	25.7081251
Scale Factor	1.000042069		
Elevation Adjust. Factor	0.9999900394		
Combined Adjust. Factor	1.0000321079		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	89	15.20	49.9
MK # 2	EAST END OF RCP	237	5.25	17.2
MK # 3	GAS METER	258	1.85	6.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="MOSS"/> Ref Mon # 2 <input type="text" value="X 303"/> Ref Mon # 3 <input type="text" value="AHTD HOPE 1"/>	ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 7 47.6285988
Longitude	93 46 10.8548472
Ellipsoid Height (M):	37.074
Geoid Height (M):	-26.460

Location Description
<p>TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 10.3 KM (6.4 MI) TO THE RED RIVER BAPTIST CHURCH AND THE STATION ON THE LEFT. THE STATION IS 10.00 METERS EAST OF THE CENTER OF THE EAST ENTRANCE TO THE CHURCH, 8.70 METERS NORTH OF THE CENTER OF STATE HIGHWAY 160 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370010A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 836.799 METERS.</p>

AZ Mark Station	370010
Geodetic Azimuth	271 00 53.03647
Grid Azimuth	272 00 18.95684

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370011	Date Monumented 6/6/2000	Monumented By AHTD	County LAFAYETTE	Route 160	Job Number: 030182
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	452,205.4258	
Easting (M)	239,082.3182	
Elevation (M)*	64.454	
Northing (SFT)	1,483,610.6345	
Easting (SFT)	784,389.2390	
Elevation (SFT)*	211.462	

Convergence Angle	0	57	54.3717719
Scale Factor	1.000043374		
Elevation Adjust. Factor	0.9999898852		
Combined Adjust. Factor	1.0000332588		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	275	1.00	3.3
MK # 2	SOUTH END OF CMP	13	4.45	14.6
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MOSS	ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2
Ref Mon # 2 X 303	
Ref Mon # 3 AHTD HOPE 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370011A	Date Monumented 6/6/2000	Monumented By AHTD	County LAFAYETTE	Route 160	Job Number: 030182
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	451,817.7208	
Easting (M)	239,180.5375	
Elevation (M)*	64.938	
Northing (SFT)	1,482,338.6390	
Easting (SFT)	784,711.4801	
Elevation (SFT)*	213.050	

Convergence Angle	0	57	52.1106240
Scale Factor	1.000044331		
Elevation Adjust. Factor	0.9999898092		
Combined Adjust. Factor	1.0000341398		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	169	24.01	78.8
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MOSS	ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2
Ref Mon # 2 X 303	
Ref Mon # 3 AHTD HOPE 1	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 7 17.9201136
Longitude	93 43 23.6240832
Ellipsoid Height (M):	38.566
Geoid Height (M):	-26.426

Location Description
<p>TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 15.35 KM (9.54 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.40 METERS EAST OF THE CENTER OF STATE HIGHWAY 160 AND 0.96 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370011A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 399.934 METERS.</p>

AZ Mark Station	370011
Geodetic Azimuth	344 49 10.48346
Grid Azimuth	345 47 02.62085

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370012	Date Monumented 6/6/2000	Monumented By AHTD	County LAFAYETTE	Route 160	Job Number: 030182
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	450,070.1644	
Easting (M)	241,576.8308	
Elevation (M)*	78.008	
Northing (SFT)	1,476,605.1977	
Easting (SFT)	792,573.3190	
Elevation (SFT)*	255.931	

Convergence Angle	0	56	59.7584453
Scale Factor	1.000048604		
Elevation Adjust. Factor	0.9999877582		
Combined Adjust. Factor	1.0000363616		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29 AND STATE HIGHWAY 160, LOCATED IN BRADLEY, GO WEST ON STATE HIGHWAY 160 FOR 5.36 KM (3.33 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.15 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 160 AND 1.20 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370012 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 506.305 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS FROM USC&GS BENCH MARK K 199 BY CREW S5102.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 MOSS</p> <p>Ref Mon # 2 X 303</p> <p>Ref Mon # 3 AHTD HOPE 1</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2</p>
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AZ Mark Station	370012A
Geodetic Azimuth	90 49 15.661221
Grid Azimuth	91 46 15.287894

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370012A	Date Monumented 6/6/2000	Monumented By AHTD	County LAFAYETTE	Route 160	Job Number: 030182
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	450,054.5174	
Easting (M)	242,082.9086	
Elevation (M)*	78.081	
Northing (SFT)	1,476,553.8625	
Easting (SFT)	794,233.6760	
Elevation (SFT)*	256.171	

Convergence Angle	0	56	48.8305453
Scale Factor	1.000048622		
Elevation Adjust. Factor	0.9999877467		
Combined Adjust. Factor	1.0000363681		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing)	
Ref Mon # 1	MOSS
Ref Mon # 2	X 303
Ref Mon # 3	AHTD HOPE 1

Comments
ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 6 22.2688116
Longitude	93 41 30.5614932
Ellipsoid Height (M):	51.743
Geoid Height (M):	-26.390

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29 AND STATE HIGHWAY 160, LOCATED IN BRADLEY, GO WEST ON STATE HIGHWAY 160 FOR 4.67 KM (2.90 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.50 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 160 AND 1.45 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370012A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 506.305 METERS.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370013	Date Monumented 6/6/2000	Monumented By AHTD	County LAFAYETTE	Route 160	Job Number: 030182
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	449,075.1284	
Easting (M)	245,488.7046	
Elevation (M)*	78.875	
Northing (SFT)	1,473,340.6504	
Easting (SFT)	805,407.5250	
Elevation (SFT)*	258.776	

Convergence Angle	0	55	34.9835014
Scale Factor	1.000050964		
Elevation Adjust. Factor	0.9999876221		
Combined Adjust. Factor	1.0000385854		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29 AND STATE HIGHWAY 160 LOCATED IN BRADLEY, GO WEST ON STATE HIGHWAY 160 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.30 METERS NORTH OF THE CENTER OF STATE HIGHWAY 160, 9.15 METERS WEST OF THE WEST RAIL AND 1.23 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370013 2000" SET ON TOP OF AN IRON ROD 0.82 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 694.689 METERS.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					370013A
MK # 2	NONE					188 37 58.71861
MK # 3	NONE					189 33 33.72956

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MOSS	ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2
Ref Mon # 2 X 303	
Ref Mon # 3 AHTD HOPE 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370013A	Date Monumented 6/6/2000	Monumented By AHTD	County LAFAYETTE	Route 29	Job Number: 030182
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	448,390.0532	
Easting (M)	245,373.3324	
Elevation (M)*	77.377	
Northing (SFT)	1,471,093.0329	
Easting (SFT)	805,029.0080	
Elevation (SFT)*	253.861	

Convergence Angle	0	55	37.2340510
Scale Factor	1.000052719		
Elevation Adjust. Factor	0.9999878572		
Combined Adjust. Factor	1.0000405755		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 MOSS Ref Mon # 2 X 303 Ref Mon # 3 AHTD HOPE 1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2</td> </tr> </table>	Comments	ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2
Comments			
ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29 AND STATE HIGHWAY 160, LOCATED IN BRADLEY, GO SOUTH ON STATE HIGHWAY 29 FOR 0.72 KM (0.45 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.52 METERS WEST OF THE CENTER OF STATE HIGHWAY 29, 6.40 METERS EAST OF THE CENTER OF A PAVED ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "370013A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 694.689 METERS.

AZ Mark Station	370013
Geodetic Azimuth	8 37 56.523014
Grid Azimuth	9 33 33.729559

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370014	Date Monumented 6/25/2007	Monumented By AHTD	County LAFAYETTE	Route 29	Job Number: 030348
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	483,910.7631	
Easting (M)	252,350.3770	
Elevation (M)*	114.378	
Northing (SFT)	1,587,630.5619	
Easting (SFT)	827,919.5285	
Elevation (SFT)*	375.254	

Convergence Angle	0	53	18.5636099
Scale Factor	0.999976891		
Elevation Adjust. Factor	0.9999820507		
Combined Adjust. Factor	0.9999589421		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARHP Ref Mon # 3 TXMA	3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370014A	Date Monumented 6/25/2007	Monumented By AHTD	County LAFAYETTE	Route 29	Job Number: 030348
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	484,430.2531				
Easting (M)	252,106.3210				
Elevation (M)*	114.432				
Northing (SFT)	1,589,334.9220				
Easting (SFT)	827,118.8215				
Elevation (SFT)*	375.433				

Convergence Angle	0	53	24.0245910
Scale Factor	0.999976021		
Elevation Adjust. Factor	0.9999820422		
Combined Adjust. Factor	0.9999580636		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	POWER POLE	159	41.15	135.0		370014
MK # 2						153 56 45
MK # 3						154 50 09

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.
Ref Mon # 2 ARHP	
Ref Mon # 3 TXMA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370015	Date Monumented 9/13/2011	Monumented By AHTD	County LAFAYETTE	Route 82	Job Number: 030343,07ST01
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	478,548.7049	
Easting (M)	260,200.2478	
Elevation (M)*	82.056	
Northing (SFT)	1,570,038.5427	
Easting (SFT)	853,673.6463	
Elevation (SFT)*	269.213	

Convergence Angle	0	50	26.8309270
Scale Factor	0.999986104		
Elevation Adjust. Factor	0.9999871228		
Combined Adjust. Factor	0.9999732270		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND HIGHWAY 53N, IN BUCKNER, GO WEST ON HIGHWAY 82 3.9 MILES TO THE STATION MARK ON THE LEFT, SOUTH 40.2 FEET OF THE CENTERLINE HIGHWAY 82 AND NORTH 1 FOOT OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "370015 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP Ref Mon # 2 ARCM Ref Mon # 3 SHRV	PREVIOUS ELEV. (269.2135') BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM NGS STAMPS RM 1 AND CHECKED BY STATIC GPS USING T 202, Q 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING). *****UPDATE D ELEV. BY COMBINING STUBBED OUT DIGITAL LEVELS UNDER JOB

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370015A	Date Monumented 9/13/2011	Monumented By AHTD	County LAFAYETTE	Route 82	Job Number: 030343,07ST01
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	478,543.0043	
Easting (M)	260,863.6792	
Elevation (M)*	95.623	
Northing (SFT)	1,570,019.8399	
Easting (SFT)	855,850.2542	
Elevation (SFT)*	313.725	

Convergence Angle	0	50	12.4670935
Scale Factor	0.999986097		
Elevation Adjust. Factor	0.9999849938		
Combined Adjust. Factor	0.9999710910		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	66	3.20	10.5
MK # 2	TELEPHONE BOX	245	1.65	5.4
MK # 3	SOUTHEAST CORNER I-S-F HOUSE	325	8.17	26.8

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHP Ref Mon # 2 ARCM Ref Mon # 3 SHRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> PREVIOUS ELEV. (313.7220') BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM NGS STAMPS RM 1 AND CHECKED BY STATIC GPS USING T 202, Q 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING). *****UPDATE D ELEV. BY COMBINING STUBBED OUT DIGITAL LEVELS UNDER JOB </td> </tr> </table>	Comments	PREVIOUS ELEV. (313.7220') BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM NGS STAMPS RM 1 AND CHECKED BY STATIC GPS USING T 202, Q 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING). *****UPDATE D ELEV. BY COMBINING STUBBED OUT DIGITAL LEVELS UNDER JOB
Comments			
PREVIOUS ELEV. (313.7220') BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM NGS STAMPS RM 1 AND CHECKED BY STATIC GPS USING T 202, Q 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING). *****UPDATE D ELEV. BY COMBINING STUBBED OUT DIGITAL LEVELS UNDER JOB			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND HIGHWAY 53N, IN BUCKNER, GO WEST ON HIGHWAY 82 3.5 MILES TO THE STATION MARK ON THE RIGHT, WEST 29.5 FEET OF THE CENTERLINE OF OPERA STREET, NORTH 25.6 FEET OF THE CENTERLINE HIGHWAY 82 AND SOUTH 4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "370015A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370016	Date Monumented 5/8/2012	Monumented By AHTD	County LAFAYETTE	Route 82	Job Number: 07ST01,030343
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	477,962.8401
Easting (M)	264,637.2603
Elevation (M)*	98.001
Northing (SFT)	1,568,116.4179
Easting (SFT)	868,230.7448
Elevation (SFT)*	321.526

Convergence Angle	0 48 50.5972572
Scale Factor	0.999987057
Elevation Adjust. Factor	0.9999846206
Combined Adjust. Factor	0.9999716778

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
TO REACH THE STATION MARK FROM JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 53 NORTH, IN BUCKNER GO WEST ON HIGHWAY 82, 1.15 MILES TO THE STATION ON THE LEFT. SOUTH 69.0 FEET OF THE CENTER LINE OF HIGHWAY 82,NORTH 3.0 FEET OF A WITNESS POST THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "370016 2012 ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	110	18.47	60.6
MK # 2	COMBINATION POLE WITH GUY	276	38.40	126.0
MK # 3	FENCE CORNER	273	38.40	126.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHP Ref Mon # 2 ARCM Ref Mon # 3 SHRV	Comments VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM T 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, Q 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING). *****UPDATE D ELEV. BY COMBINING STUBBED OUT DIGITAL LEVELS UNDER JOB
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370017	Date Monumented 3/19/2013	Monumented By AHTD	County LAFAYETTE	Route 82	Job Number: 030343
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	478,590.6346	0.0010			
Easting (M)	257,077.8930	0.0020			
Elevation (M)*	78.104				

Northing (SFT)	1,570,176.1070				
Easting (SFT)	843,429.7206				
Elevation (SFT)*	256.245				

Convergence Angle	0	51	34.4372087		
Scale Factor	0.999986112				
Elevation Adjust. Factor	0.9999877431				
Combined Adjust. Factor	0.9999738553				

SUPERCEDED CONTROL

Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 29, IN LEWISVILLE, GO EAST ON HIGHWAY 82 2.5 MILES TO THE MARK ON THE RIGHT, IN FRONT OF TRINITY BAPTIST CHURCH, 41 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY AND 19.3 FEET NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "370017 2013" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	CENTER OF CONC HDWL		270	7.74	25.4
MK # 2	COMBINATION POLE		180	5.94	19.5
MK # 3	TELEPHONE RISER		165	6.10	20.0

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARCM	ELEV. BY COMBINING STUBBED OUT DIGITAL LEVELS UNDER JOB #07ST01 IN MAY OF 2012 (FROM T 202 TO GPS 370016 AND FROM STAMPS RM 1 TO GPS 370015A) TO DIGITAL LEVELS FOR JOB #030343 IN MARCH 2013 BY S5112 FROM GPS 370016 AND THRU GPS PAIR 370015A & 370015. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN FINAL STATIC ADJUSTMENT.
Ref Mon # 2	SHRV	
Ref Mon # 3	TXCR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370017A	Date Monumented 3/19/2013	Monumented By AHTD	County LAFAYETTE	Route 82	Job Number: 030343
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	478,654.5745	0.0010			
Easting (M)	257,757.8761	0.0020			
Elevation (M)*	77.385				
Northing (SFT)	1,570,385.8832				
Easting (SFT)	845,660.6318				
Elevation (SFT)*	253.887				

Convergence Angle	0	51	19.7376105
Scale Factor	0.999985977		
Elevation Adjust. Factor	0.9999878559		
Combined Adjust. Factor	0.9999738331		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	252	25.48	83.6
MK # 2	COMBINATION POLE W/ 3 GUYS	121	28.35	93.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	ELEV. BY COMBINING STUBBED OUT DIGITAL LEVELS UNDER JOB #07ST01 IN MAY OF 2012 (FROM T 202 TO GPS 370016 AND FROM STAMPS RM 1 TO GPS 370015A) TO DIGITAL LEVELS FOR JOB #030343 IN MARCH 2013 BY S5112 FROM GPS 370016 AND THRU GPS PAIR 370015A & 370015. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN FINAL STATIC ADJUSTMENT.
Ref Mon # 2 SHRV	
Ref Mon # 3 TXCR	

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 29, IN LEWISVILLE, GO EAST ON HIGHWAY 82 2.9 MILES TO THE MARK ON THE RIGHT, 46.1 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY AND 29.7 FEET NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "370017A 2013" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	370017
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370018	Date Monumented 1/20/2015	Monumented By AHTD	County LAFAYETTE	Route CR 25	Job Number: BR3714
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	487,187.0815	0.0030			
Easting (M)	253,882.0627	0.0030			
Elevation (M)*					
Northing (SFT)	1,598,379.6166				
Easting (SFT)	832,944.7340				
Elevation (SFT)*					

Convergence Angle	0	52	46.4771272		
Scale Factor	0.999971438				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>SHRV</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARCM</td> </tr> </table>	Ref Mon # 1	SHRV	Ref Mon # 2	ARHP	Ref Mon # 3	ARCM	<table style="width: 100%;"> <tr> <td style="width: 100%;">Comments</td> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Ref Mon # 1	SHRV								
Ref Mon # 2	ARHP								
Ref Mon # 3	ARCM								
Comments									

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	33	26	33.4950720
Longitude	93	34	17.5483596
Ellipsoid Height (M):	52.795	0.0060	
Geoid Height (M):	-26.824	0.0060	

Location Description
GO SOUTH ON HIGHWAY 355 EAST AND 29 SOUTH OF HOPE, GO SOUTH ON 29 FOR 6.3 MILES TO COUNTY ROAD 40, TURN LEFT (EAST) ON COUNTY ROAD 40 FOR 1.4 MILES TO THE JUNCTION OF COUNTY ROAD 40 AND COUNTY ROAD 25, AT THE INTERSECTION TURN LEFT (NORTH) ON COUNTY ROAD 25 AND GO 1.0 MILES TO THE MARK ON THE RIGHT. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 370018" ON TOP OF A 4 FOOT REBAR DRIVEN 0.7 BELOW THE SURFACE OF THE GROUND, 24.25 FOOT WEST OF A WITNESS POST AND 11.4 FOOT EAST OF THE CENTERLINE OF COUNTY ROAD 25.

AZ Mark Station	370018A
Geodetic Azimuth	
Grid Azimuth	

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370018A	Date Monumented 1/20/2015	Monumented By AHTD	County LAFAYETTE	Route CR 25	Job Number: BR3714
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	487,906.8253	0.0030			
Easting (M)	253,916.2473	0.0030			
Elevation (M)*					
Northing (SFT)	1,600,740.9760				
Easting (SFT)	833,056.8880				
Elevation (SFT)*					

Convergence Angle	0	52	45.9758254		
Scale Factor	0.999970284				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
GO SOUTH ON HIGHWAY 355 EAST AND 29 SOUTH OF HOPE, GO SOUTH ON 29 FOR 6.3 MILES TO COUNTY ROAD 40, TURN LEFT (EAST) ON COUNTY ROAD 40 FOR 1.4 MILES TO THE JUNCTION OF COUNTY ROAD 40 AND COUNTY ROAD 25, AT THE INTERSECTION TURN LEFT (NORTH) ON COUNTY ROAD 25 AND GO 1.45 MILES TO THE MARK ON THE RIGHT AT A ROAD INTERSECTION. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 370018A" ON TOP OF A 4 FOOT REBAR DRIVEN 0.6 BELOW THE SURFACE OF THE GROUND, SOUTH 36.8 FOOT OF A GRAVEL ROAD, 23.6 FOOT WEST OF A WITNESS POST AND 16.9 FOOT EAST OF THE CENTERLINE OF COUNTY ROAD 25.					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CENTER OF GATE		93.80	307.7	AZ Mark Station 370018
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SHR V Ref Mon # 2 ARHP Ref Mon # 3 ARCM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370019	Date Monumented 4/19/2017	Monumented By AHTD	County LAFAYETTE	Route SR-160	Job Number: 030455
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	447,152.7180	0.0020			
Easting (M)	251,229.3130	0.0020			
Elevation (M)*					
Northing (SFT)	1,467,033.5423				
Easting (SFT)	824,241.5044				
Elevation (SFT)*					

Convergence Angle	0	53	30.4523932		
Scale Factor	1.000055667				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF SR-29 AND SR-160, IN BRADLEY, GO EAST ON SR-160 3.6 MILES TO THE STATION ON THE LEFT. 18.5' NORTH OF THE C/L OF THE HIGHWAY AND 24.5' EAST OF C/L LOGGING ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "370019 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Power Pole		347	4.88	16.0
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <p>GPS DERIVED ELEVATION BASED ON ORTHOMETRIC HT. CONSTRAINTS ON AHTD CORS SITES ARCM & ARHP AND ON 2ND ORDER USC & GS BM C 63 IN THE STATIC NETWORK ADJUSTMENT.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370020	Date Monumented 9/10/2020	Monumented By ARDOT	County LAYAYETTE	Route CR 22	Job Number: BR3715
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	477,132.6113	0.0030			
Easting (M)	253,256.0164	0.0030			
Elevation (M)*					
Northing (SFT)	1,565,392.5756				
Easting (SFT)	830,890.7805				
Elevation (SFT)*					

Convergence Angle	0	52	56.6864219
Scale Factor	0.999988901		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARDQ Ref Mon # 3 ARHP, TXMA	

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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 370020A	Date Monumented 9/10/2020	Monumented By ARDOT	County LAYAYETTE	Route CR 22	Job Number: BR3715
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	476,824.4844	0.0030			
Easting (M)	253,475.7285	0.0030			
Elevation (M)*					
Northing (SFT)	1,564,381.6626				
Easting (SFT)	831,611.6193				
Elevation (SFT)*					

Convergence Angle	0	52	51.8283231
Scale Factor	0.999989469		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE W/GUY	275	24.17	79.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARDQ Ref Mon # 3 ARHP, TXMA	

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 33 20 56.9731524

Longitude 93 34 27.1093476

Ellipsoid Height (M): 54.132 0.0110

Geoid Height (M): -26.711 0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 313S AND STATE HIGHWAY 29, SOUTH OF LEWISVILLE, GO SOUTH ON HIGHWAY 313S 0.2. MILES' TO THE MARK ON THE RIGHT, WEST 26.2' OF THE C/L OF HIGHWAY 29 AND SOUTH 20.7' OF THE C/L OF COUNTY ROAD 22. THE MARK IS A STANDARD 2 1/2' CAP STAMPED "2020 370020A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380001	Date Monumented 3/27/1992	Monumented By AHTD	County LAWRENCE	Route 412	Job Number: R00054
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 208,455.6510		Latitude 36 12 34.5669984
Easting (M) 472,025.7960		Longitude 91 11 56.5039464
Elevation (M)* 101.142		Ellipsoid Height (M): 72.200
		Geoid Height (M): -28.937

Northing (SFT) 683,908.2483	Easting (SFT) 1,548,637.9657	Location Description FROM THE JCT. OF HWY. 412 AND HWY. 115 IN IMBODEN, GO WEST ON HWY. 412 1.05 MILES TO THE STATION ON THE RIGHT. THE STATION IS 55.8 FEET NORTH OF THE CENTERLINE OF HWY. 412, 23 FEET EAST OF A PRIVATE DRIVE AND 3.92 FEET SOUTH OF A WITNESS POST.
Elevation (SFT)* 331.830		

Convergence Angle 0 27 57.9038393	Scale Factor 0.999995399
Elevation Adjust. Factor 0.9999841278	Combined Adjust. Factor 0.9999795268

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN COMBINATION POLE	15	28.55	93.7	AZ Mark Station 92380001A AZ. MK.
MK # 2	NBC IN COMBINATION POLE	295	20.69	67.9	Geodetic Azimuth 131 13 32.40727
MK # 3	NBC IN POWER POLE	200	38.82	127.4	Grid Azimuth 130 45 34.58361

Area Reference Monuments (used for Processing) Ref Mon # 1 POCAPORT Ref Mon # 2 SEDGWICK NW BASE Ref Mon # 3 NONE	Comments (OLD PN = 92380001)
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380002	Date Monumented 3/27/1992	Monumented By AHTD	County LAWRENCE	Route 412	Job Number: R00054
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Northing (M) 205,215.3459		Geoid Datum:
Easting (M) 475,334.5690		Latitude 36 10 48.5503536
Elevation (M)* 88.663		Longitude 91 9 45.1493784
Northing (SFT) 673,277.3473		Ellipsoid Height (M): 59.770
Easting (SFT) 1,559,493.4985		Geoid Height (M): -28.895
Elevation (SFT)* 290.889		

Convergence Angle 0 29 14.3389479	Location Description FROM THE JCT. OF HWY. 412 AND HWY. 62 IN IMBODEN, GO EAST ON HWY. 412 1.80 MILES TO THE STATION ON THE RIGHT. THE STATION IS 58 FEET RIGHT OF THE CENTERLINE OF HWY. 412, 545 FEET NORTHWEST OF A CONCRETE BRIDGE END, 285 FEET SOUTH OF A FIELD ENTRANCE AND 3.75 FEET EAST OF A WITNESS POST.
Scale Factor 0.999989923	
Elevation Adjust. Factor 0.9999860861	
Combined Adjust. Factor 0.9999760092	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN POWER POLE	79	36.34	119.2	AZ Mark Station 92380002A AZ. MK.
MK # 2	NBC IN TOP OF FENCE BRACE POST	171	31.70	104.0	Geodetic Azimuth 1 52 24.03065
MK # 3	NONE	0	0.00	0.0	Grid Azimuth 1 23 09.69428

Area Reference Monuments (used for Processing) Ref Mon # 1 POCAPORT Ref Mon # 2 SEDGWICK NW BASE Ref Mon # 3 NONE	Comments (OLD PN = 92380002)
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380002A	Date Monumented 3/27/1992	Monumented By AHTD	County LAWRENCE	Route 412	Job Number: R00054
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Northing (M) 205,678.4960		Geoid Datum:
Easting (M) 475,345.7750		Latitude 36 11 3.5730384
Elevation (M)* 96.801		Longitude 91 9 44.5432680
Northing (SFT) 674,796.8656		Ellipsoid Height (M): 67.899
Easting (SFT) 1,559,530.2635		Geoid Height (M): -28.902
Elevation (SFT)* 317.588		

Convergence Angle 0 29 14.6916430	Location Description FROM THE JCT. OF HWY. 412 AND HWY. 62 IN IMBODEN, GO EAST ON HWY. 412 1.50 MILES TO THE STATION ON THE LEFT. THE STATION IS 58 FEET LEFT OF THE CENTERLINE OF HWY. 412 AND 2.25 FEET WEST OF A WITNESS POST.
Scale Factor 0.999990683	
Elevation Adjust. Factor 0.9999848090	
Combined Adjust. Factor 0.9999754921	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN TOP OF FENCE POST	13	2.47	8.1	AZ Mark Station 92380002
MK # 2	NBC IN TOP OF FENCE POST	157	2.69	8.8	Geodetic Azimuth 181 52 24.38847
MK # 3	NBC IN TOP OF FENCE POST	166	7.95	26.1	Grid Azimuth 181 23 09.69428

Area Reference Monuments (used for Processing) Ref Mon # 1 POCAPORT Ref Mon # 2 SEDGWICK NW BASE Ref Mon # 3 NONE	Comments (OLD PN = 92380002A)
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380003	Date Monumented 3/27/1992	Monumented By AHTD	County LAWRENCE	Route 412	Job Number: R00054
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 200,402.7050		Latitude 36 8 12.2988840
Easting (M) 475,753.1120		Longitude 91 9 30.0465936
Elevation (M)* 90.662		Ellipsoid Height (M): 61.830
		Geoid Height (M): -28.829

Northing (SFT) 657,487.8747		
Easting (SFT) 1,560,866.6683		
Elevation (SFT)* 297.447		

Convergence Angle 0 29 23.1272452		
Scale Factor 0.999982337		
Elevation Adjust. Factor 0.9999857724		
Combined Adjust. Factor 0.9999681096		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

FROM THE JCT. OF HWY. 412 AND HWY. 62 IN IMBODEN, GO EAST ON HWY. 412 4.80 MILES TO THE STATION ON RIGHT. THE STATION IS 58 FEET RIGHT OF THE CENTERLINE OF HWY. 412, 476 FEET SOUTHWEST OF THE CONCRETE BRIDGE END, 32 FEET SOUTH OF A PRIVATE DRIVE AND 2.30 FEET EAST OF A WITNESS POST.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	131	12.37	40.6
MK # 2	NBC IN POWER POLE	127	42.23	138.5
MK # 3	NBC IN POWER POLE	53	48.42	158.9

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 POCAPORT</p> <p>Ref Mon # 2 SEDGWICK NW BASE</p> <p>Ref Mon # 3 NONE</p>	<p style="text-align: center;">Comments</p> <p>(OLD PN = 92380003)</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380003A	Date Monumented 3/27/1992	Monumented By AHTD	County LAWRENCE	Route 412	Job Number: R00054
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 200,795.1720		Latitude 36 8 25.0208448
Easting (M) 475,792.2720		Longitude 91 9 28.3461048
Elevation (M)* 96.734		Ellipsoid Height (M): 67.905
Northing (SFT) 658,775.4935		Geoid Height (M): -28.834
Easting (SFT) 1,560,995.1457		
Elevation (SFT)* 317.368		

Convergence Angle 0 29 24.1167581	Location Description FROM THE JCT. OF HWY. 412 AND HWY. 62 IN IMBODEN, GO EAST 4.55 MILES ON HWY. 412 TO THE STATION ON THE LEFT. THE STATION IS 59 FEET LEFT OF THE CENTERLINE OF HWY. 412, 85 FEET SOUTHEAST OF A CONCRETE CROSSDRAIN HEADWALL AND 2.0 FEET WEST OF A WITNESS POST.
Scale Factor 0.999982933	
Elevation Adjust. Factor 0.9999848195	
Combined Adjust. Factor 0.9999677528	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN COMBINATION POLE	358	53.59	175.8	AZ Mark Station 92380003
MK # 2	NBC IN COMBINATION POLE	177	18.31	60.1	Geodetic Azimuth 186 11 17.22563
MK # 3	NBC IN COMBINATION POLE	136	36.13	118.5	Grid Azimuth 185 41 53.10220

Area Reference Monuments (used for Processing) Ref Mon # 1 POCAPORT Ref Mon # 2 SEDGWICK NW BASE Ref Mon # 3 NONE	Comments (OLD PN = 92380003A)
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380004	Date Monumented 3/27/1992	Monumented By AHTD	County LAWRENCE	Route 412	Job Number: 100686, 100646, 100981
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - 3 Wire Level
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 197,238.2980		Latitude 36 6 28.6209900
Easting (M) 479,327.6700		Longitude 91 7 8.2123212
Elevation (M)* 105.372		Ellipsoid Height (M): 77.338
		Geoid Height (M): -28.034

Northing (SFT) 647,105.9827		Location Description
Easting (SFT) 1,572,594.1973		<p>FROM THE JCT. OF HWY. 412 AND HWY. 62 IN IMBODEN, GO EAST ON HWY. 412 7.14 MILES TO THE STATION ON THE RIGHT. THE STATION IS 2.0 FEET NORTH OF A WITNESS POST IN THE LAWN OF THE "NEW LIFE FULL GOSPEL CHURCH" OVERLOOKING HWY. 412.</p>
Elevation (SFT)* 345.709		
Convergence Angle 0 30 45.6604846		
Scale Factor 0.999977620		
Elevation Adjust. Factor 0.9999834639		
Combined Adjust. Factor 0.9999610843		

SUPERCEDED CONTROL				
Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN COMBINATION POLE	107	19.80	65.0	AZ Mark Station 380009
MK # 2	NBC IN 14" CEDAR	243	25.92	85.0	Geodetic Azimuth 88 17 09
MK # 3	NBC IN 18" ELM	238	33.57	110.1	Grid Azimuth 87 46 23

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT, ARPG Ref Mon # 2 B 316, 380008 Ref Mon # 3 O 2,	Comments DIGITAL 3 WIRE LEVELS BY S5102 ON 6/2009 UTILIZING C 316, F 316, AND S315
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380005	Date Monumented 11/4/1993	Monumented By AHTD	County LAWRENCE	Route CR 730	Job Number: RX0017,001784
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	176,535.4500	
Easting (M)	490,602.3780	
Elevation (M)*	78.450	
Northing (SFT)	579,183.3889	
Easting (SFT)	1,609,584.6352	
Elevation (SFT)*	257.381	

Convergence Angle	0	35	3.0530394
Scale Factor	0.999953096		
Elevation Adjust. Factor	0.9999876888		
Combined Adjust. Factor	0.9999407854		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>THE STATION IS LOCATED IN T-15-N R-1-E IN THE NW 1/4 OF THE SW 1/4 OF SECTION 21. FROM THE POST OFFICE IN THE TOWN OF EGYPT, GO NORTH ON HWY. 91 FOR 1.62 KM (1.0 MILES) TO THE CRAIGHEAD AND LAWRENCE COUNTY LINE AND THE JCT. OF CO. RD. NO. 194 TO THE LEFT, GO LEFT (WEST) ON CO. RD. NO. 194 FOR 4.10 KM (3.10 MILES) TO THE JCT. WITH CO. RD. NO. 191, GO RIGHT (NORTH) ON CO. RD. NO. 191 FOR 1.62 KM (1.0 MILES) TO THE JCT. WITH HWY. 230, CONTINUE NORTH ON CO. RD. NO. 191 CROSSING HWY. 230 FOR 2.82 KM (1.75 MILES) TO A "T" JCT., GO LEFT (WEST) AT THE "T" JCT. FOR 0.32 KM (0.20 MILES) TO THE STATION ON THE LEFT. THE STATION IS 3.460 METERS SOUTH OF THE GRAVEL ROAD, 130.74 METERS EAST OF A GRAVEL ROAD GOING NORTH AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "380005" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.30 METERS BELOW THE GROUND SURFACE.</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	CPS IN POWER POLE	277		62.81	206.1
MK # 2	NONE				
MK # 3	NONE				

AZ Mark Station	38005A
Geodetic Azimuth	272 28 12.75241
Grid Azimuth	271 53 09.65012

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEDGWICK	
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 WALDENBURG	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380005A	Date Monumented 11/4/1993	Monumented By AHTD	County LAWRENCE	Route CR 730	Job Number: RX0017,001784
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	176,552.5280	
Easting (M)	490,083.7370	
Elevation (M)*	77.946	
Northing (SFT)	579,239.4189	
Easting (SFT)	1,607,883.0605	
Elevation (SFT)*	255.728	

Convergence Angle	0	34	51.0192449
Scale Factor	0.999953117		
Elevation Adjust. Factor	0.9999877679		
Combined Adjust. Factor	0.9999408855		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN POWER POLE	251	32.23	105.7		
MK # 2	NBC IN 3" TREE	309	17.60	57.8		
MK # 3	NONE					

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>SEDGWICK</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NEWSPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>WALDENBURG</td> </tr> </table>	Ref Mon # 1	SEDGWICK	Ref Mon # 2	NEWSPORT	Ref Mon # 3	WALDENBURG	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	SEDGWICK						
Ref Mon # 2	NEWSPORT						
Ref Mon # 3	WALDENBURG						

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	35 55 14.1612132
Longitude	91 0 6.5606148
Ellipsoid Height (M):	
Geoid Height (M):	-28.616

Location Description
<p>THE STATION IS LOCATED IN T-15-N R-1-E IN THE NE 1/4 OF THE SE 1/4 OF SECTION 20. FROM THE POST OFFICE IN THE TOWN OF EGYPT, GO NORTH ON HWY. 91 FOR 1.62 KM (1.0 MILES) TO THE CRAIGHEAD AND LAWRENCE COUNTY LINE AND THE JCT. OF CO. RD. NO. 194 TO THE LEFT, GO LEFT (WEST) ON CO. RD. NO. 194 FOR 4.10 KM (3.10 MILES) TO THE JCT. WITH CO. RD. NO. 191, GO RIGHT (NORTH) ON CO. RD. NO. 191 FOR 1.62 KM (1.0 MILES) TO THE JCT. WITH HWY. 230, CONTINUE STRAIGHT AHEAD (NORTH) ON CO. RD. NO. 191 CROSSING HWY. 230 FOR 2.82 KM (1.75 MILES) TO A "T" JCT., GO LEFT AT THE "T" JCT. FOR 0.45 KM (0.28 MILES) TO THE STATION ON THE LEFT. THE STATION IS 3.45 METERS SOUTH OF THE CENTER OF THE GRAVEL ROAD AND 1.20 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "38005A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.25 METERS BELOW THE GROUND SURFACE.</p>

AZ Mark Station	380005
Geodetic Azimuth	92 28 00.620108
Grid Azimuth	91 53 09.650122

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380006A	Date Monumented 11/4/1993	Monumented By AHTD	County LAWRENCE	Route CR 716	Job Number: RX0017,001784
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 180,728.7779		Latitude 35 57 28.8202788
Easting (M) 492,593.5530		Longitude 90 58 24.7146096
Elevation (M)* 78.783		Ellipsoid Height (M):
Northing (SFT) 592,940.9988		Geoid Height (M): -28.663
Easting (SFT) 1,616,117.3485		
Elevation (SFT)* 258.474		

Convergence Angle 0 35 50.2833465	Scale Factor 0.999957154	Location Description
Elevation Adjust. Factor 0.9999876365	Combined Adjust. Factor 0.9999447911	<p>THE STATION IS LOCATED FOUND IN T-15-N R-1-E IN THE SW 1/4 OF THE SW 1/4 OF SECTION 3.FROM THE JCT. OF HWY. 67 AND MAGNOLIA STREET IN THE TOWN OF MINTURN GO EAST ON MAGNOLIA STREET (ALSO KNOWN AS "OLD MINTURN ROAD") FOR 5.36 KM (3.33 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 8.06 METERS SOUTH OF THE CENTER OF THE GRAVEL ROAD, 192.33 METERS WEST OF A DRIVEWAY TO A ROCK HOUSE OWNED BY MR. RICHARD TINKER AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "38006A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>
SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NBC IN POWER POLE	35	17.53	57.5		380006
MK # 2	NONE					291 45 26.52163
MK # 3	NONE					291 09 36.19206

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>SEDGWICK</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NEWSPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>WALDENBURG</td> </tr> </table>	Ref Mon # 1	SEDGWICK	Ref Mon # 2	NEWSPORT	Ref Mon # 3	WALDENBURG	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	SEDGWICK						
Ref Mon # 2	NEWSPORT						
Ref Mon # 3	WALDENBURG						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380007	Date Monumented 11/4/1993	Monumented By AHTD	County LAWRENCE	Route CR 701	Job Number: RX0017,001784
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	187,553.5869	
Easting (M)	493,040.3000	
Elevation (M)*	80.021	
Northing (SFT)	615,332.0597	
Easting (SFT)	1,617,583.0509	
Elevation (SFT)*	262.536	

Convergence Angle	0	36	2.3187520
Scale Factor	0.999964714		
Elevation Adjust. Factor	0.9999874423		
Combined Adjust. Factor	0.9999521567		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN POWER POLE	169	64.31	211.0		
MK # 2	NBC IN POWER POLE	350	63.93	209.7		
MK # 3	NBC IN POWER POLE	345	11.96	39.2		

Area Reference Monuments (used for Processing) Ref Mon # 1 SEDGWICK Ref Mon # 2 NEWSPORT Ref Mon # 3 WALDENBURG	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	1	10.0926804
Longitude	90	58	4.0316340
Ellipsoid Height (M):			
Geoid Height (M):	-28.732		

Location Description
THE STATION IS LOCATED IN T-16-N R-1-E IN THE SE 1/4 OF THE SW 1/4 OF SECTION 15. FROM THE JCT. OF HWY. 67 AND HWY. 63 IN THE TOWN OF HOXIE, GO SOUTH ON HWY. 63 FOR 0.48 KM (0.30 MILES) TO FOURTH STREET ON THE RIGHT, GO RIGHT ON FOURTH STREET FOR 0.40 KM (0.25 MILES) TO A " T " INTERSECTION WITH PECAN STREET, GO LEFT (SOUTHEAST) ON PECAN STREET WHICH IS THE MAIN TRAVELED ROAD FOR 3.26 KM (2.03 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 7.76 METERS WEST OF THE CENTER OF THE GRAVEL ROAD, 11.96 METERS SOUTH OF THE CENTER OF A PIPE CULVERT CARRYING "WHITE OAK SLOUGH" UNDER THE ROAD, 53.05 METERS SOUTHWEST OF A FIELD ENTRANCE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "380007" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

AZ Mark Station	38007A
Geodetic Azimuth	182 09 32.42643
Grid Azimuth	181 33 30.1049

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380008	Date Monumented 6/17/2007	Monumented By ahtd	County LAWRENCE	Route 63	Job Number: 100646, 100686
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	193,140.8220
Easting (M)	487,945.5280
Elevation (M)*	78.295
Northing (SFT)	633,662.8468
Easting (SFT)	1,600,867.9531
Elevation (SFT)*	256.873

Convergence Angle	0 34	5.2083155
Scale Factor	0.999971835	
Elevation Adjust. Factor	0.9999877131	
Combined Adjust. Factor	0.9999595484	

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	N/A			
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG Ref Mon # 2 ARBT Ref Mon # 3 ARMH	3-wire levels established to mark by crew S5101 in Sept 07. Levels were based on 1st order NGS marks B 316 & D 316.

Location Description	
To reach the station from the junction of highways 412 and 63 on the west side of Walnut Ridge go east on hwy-63 for 1.0 miles to the station on the right near the west driveway to Hears country market. 73.0 feet east of the center of a gravel drive, 56.5 feet south of the center of hwy-63 and 8.50 feet north of a witness post set by a split-rail fence. The station mark is a 2 1/2 inch cap stamped "380008 2007" set on top of a 5/8 inch by 4 foot long rebar and is 0.30 feet below the surface.	

AZ Mark Station	B 316
Geodetic Azimuth	110 35 37
Grid Azimuth	110 01 32

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380009	Date Monumented 6/30/2009	Monumented By AHTD	County LAWRENCE	Route NA	Job Number: 100686, 100646, 100981
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - 3 Wire Level
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 197,261.2039		Latitude 36 6 29.1925008
Easting (M) 479,916.6870		Longitude 91 6 44.6544504
Elevation (M)* 91.634		Ellipsoid Height (M): 63.601
		Geoid Height (M): -28.033

Northing (SFT) 647,181.1331	Easting (SFT) 1,574,526.6639	Location Description
Elevation (SFT)* 300.637		<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 117 AND STATE HIGHWAY 63/412, WEST OF BLACK ROCK, GO NORTH ON 117 FOR 0.2 MILES TO THE MARK ON THE LEFT, 33 FEET EAST OF THE C/L OF THE CONCRETE DRIVE TO THE BLACK ROCK POST OFFICE AND NORTH 21.5 FEET OF THE C/L OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "380009 2009" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>
Convergence Angle 0 30 59.3687891		
Scale Factor 0.999977646		
Elevation Adjust. Factor 0.9999856198		
Combined Adjust. Factor 0.9999632661		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	LIGHT POLE	85	10.52	34.5	AZ Mark Station 380004
MK # 2	COMBINATION POLE W/TRANSFORMER	199	19.81	65.0	Geodetic Azimuth 268 17 22
MK # 3	SE CORNER BLKROC POST OFFICE	312	37.64	123.5	Grid Azimuth 267 46 23

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT, ARPG	DIGITAL 3 WIRE LEVELS BY S5102 ON 6/2009 UTILIZING C 316, F 316, AND S315 Cap stamped 9238004
Ref Mon # 2 B 316, 380008	
Ref Mon # 3 O 2,	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380010	Date Monumented 6/30/2009	Monumented By AHTD	County LAWRENCE	Route 504	Job Number: 100686
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	194,340.5499	
Easting (M)	484,286.1090	
Elevation (M)*	79.422	
Northing (SFT)	637,598.9541	
Easting (SFT)	1,588,862.0093	
Elevation (SFT)*	260.571	

Convergence Angle	0	32	40.3774632
Scale Factor	0.999973500		
Elevation Adjust. Factor	0.9999875362		
Combined Adjust. Factor	0.9999610366		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	12" CONCRETE CULVERT	6	10.21	33.5	
MK # 2	NE CORNER BRICK HOUSE #206	265	11.58	38.0	
MK # 3	LIGHT POLE	190	25.30	83.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT, ARPG	DIGITAL 3 WIRE LEVELS BY S5102 ON 6/2009 UTILIZING O 2 AND E 316
Ref Mon # 2 B 316, 380008	
Ref Mon # 3 O 2,	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380011	Date Monumented 9/14/2011	Monumented By AHTD	County LAWRENCE	Route 63	Job Number: 012157,050266
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	211,056.6369	
Easting (M)	467,856.7157	
Elevation (M)*		
Northing (SFT)	692,441.6496	
Easting (SFT)	1,534,959.9081	
Elevation (SFT)*		

Convergence Angle	0	26	21.2498911
Scale Factor	1.000000005		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Nearest rail	320	11.89	39.0
MK # 2	power pole	220	6.71	22.0
MK # 3	fence	150	3.20	10.5

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	Geoid09
Latitude	36 14 0.0174948
Longitude	91 14 42.6048108
Ellipsoid Height (M):	64.045
Geoid Height (M):	-28.303

Location Description
Starting at the junction of highway 63 and 90 go east 0.55 miles to the farm road on the right and then go 0.15 down it to the station on the left. The station is a standard alum. cap (stamped 380011 2011) and is on a 4 foot 5/8" rebar. And as described as above. Lat.36.1400 Lon.091.1443

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380011A	Date Monumented 9/14/2011	Monumented By AHTD	County LAWRENCE	Route 63	Job Number: 012157,050266
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Zone Arkansas North	Zone Code 301	Vertical Determined By: None
Horizontal Datum NAD 83 (1997)		Elevation Datum:
Northing (M) 210,798.8632		Geoid Datum: Geoid09
Easting (M) 467,460.8165		Latitude 36 13 51.7529208
Elevation (M)* 		Longitude 91 14 58.5370752
Northing (SFT) 691,595.9370		Ellipsoid Height (M): 63.668
Easting (SFT) 1,533,661.0288		Geoid Height (M): -28.302
Elevation (SFT)* 		

Convergence Angle 0 26 11.9789204	Scale Factor 0.999999552	Location Description Starting at the junction of highway 63 and 90 go south on 90 0.425 miles to a railroad crossing. The station is on the left and is a standard alum. cap (stamped 380011A 2011) and is on a 4 foot 5/8" rebar. And as described above. Lat.36.1352 Lon.091.1458
Elevation Adjust. Factor 		
Combined Adjust. Factor 		

SUPERCEDED CONTROL		
Horizontal Datum 		
Latitude 		
Longitude 		
Ellipsoid Height: 		
Grid Northing (Meters) 		
Grid Easting (Meters) 		

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	nearest rail	140	4.27	14.0	
MK # 2	CL paved road	50	19.80	65.0	
MK # 3	a Small sign next to rail that reads Shunt	210	11.28	37.0	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380012	Date Monumented 	Monumented By AHTD	County LAWRENCE	Route 412	Job Number: 781, Mobile LiDAR-CLS, 100
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	193,621.4004 0.0020
Easting (M)	496,194.5504 0.0020
Elevation (M)*	88.768

Northing (SFT)	635,239.5445
Easting (SFT)	1,627,931.6208
Elevation (SFT)*	291.233

Convergence Angle	0	37	17.1494313
Scale Factor	0.999972363		
Elevation Adjust. Factor	0.9999860696		
Combined Adjust. Factor	0.9999584330		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	4	25.8618396
Longitude	90	55	55.4343744
Ellipsoid Height:	60.691		
Grid Northing (Meters)	193,621.4130		
Grid Easting (Meters)	496,194.5482		

Location Description			
Starting at the intersection of highway 412 and 67 go north on 67 for 0.3 miles to the station on the left. The station is a standard alum. cap and set on a 4 foot rebar. It is 24 foot west of the CL of highway 67 north off ramp. LAT: 36 04 26 LONG: 90 55 55			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	S.E. of a cross drain		15.85	52.0		380012A
MK # 2	west of N.W. corner of a bridge		3.05	10.0		182° 5 ' 19"
MK # 3	yellow stripe		4.89	16.0		181° 28 ' 2"

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	SUPERCEDED GEOID HT. WAS -28.05697m STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380012A	Date Monumented 	Monumented By AHTD	County LAWRENCE	Route 412	Job Number: 781, Mobile LiDAR-CLS, 100
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	193,081.6641	0.0010			
Easting (M)	496,180.7259	0.0020			
Elevation (M)*	88.115				
Northing (SFT)	633,468.7596				
Easting (SFT)	1,627,886.2649				
Elevation (SFT)*	289.092				

Convergence Angle	0	37	16.6918372		
Scale Factor	0.999971643				
Elevation Adjust. Factor	0.9999861720				
Combined Adjust. Factor	0.9999578154				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (1997)				
Latitude	36	4	8.3555688		
Longitude	90	55	56.2206324		
Ellipsoid Height:	60.049				
Grid Northing (Meters)	193,081.6627				
Grid Easting (Meters)	496,180.7270				

Location Description					
Starting at the G. & L. County line go west for 6.1 miles on highways 412 to the station on the left. The station is a standard alum. cap and set on a 4 foot rebar. LAT: 36 04 09 LONG: 90 55 56					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	south of CL highway 412		12.80	42.0	
MK # 2	South of S.E. corner of bridge		1.50	4.9	
MK # 3					

Area Reference Monuments (used for Processing)		Comments SUPERCEDED GEOID HT. WAS -28.05135m STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 1	ARJB	
Ref Mon # 2	ARPG	
Ref Mon # 3	MODP, MOKE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380013	Date Monumented 	Monumented By AHTD	County LAWRENCE	Route 412	Job Number: 100781,Mobie LiDAR-CLS
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Zone Arkansas North	Zone Code 301	Vertical Determined By: None
Horizontal Datum NAD 83 (1997)		Elevation Datum:
Northing (M) 193,554.7498		Geoid Datum: Geoid12A
Easting (M) 502,629.4781		Latitude 36 4 21.3589812
Elevation (M)* 81.183		Longitude 90 51 38.3054004
Northing (SFT) 635,020.8750		Ellipsoid Height (M): 53.132
Easting (SFT) 1,649,043.5461		Geoid Height (M): -28.059
Elevation (SFT)* 266.348		

Convergence Angle 0 39 46.7725110	
Scale Factor 0.999972177	
Elevation Adjust. Factor 0.9999872599	
Combined Adjust. Factor 0.9999594373	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
From the Lawrece Co. line on HWY. 412, go West on 412 for 2.0 miles to the station on the right. Standard alum cap stamped 380013 2012 with a 4ft rebar. 18 ft. west of witness post. LAT:36 04 21 LONG:90 51 38				

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	East of Co.Rd 615		6.40	21.0	AZ Mark Station
MK # 2	South of field entrance	350	7.62	25.0	Geodetic Azimuth
MK # 3	East of PP	280	11.89	39.0	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3 	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Comments</td> </tr> <tr> <td>Rusty McCormick Combine of 30. Az</td> </tr> </table>	Comments	Rusty McCormick Combine of 30. Az
Comments			
Rusty McCormick Combine of 30. Az			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380013A	Date Monumented 	Monumented By 	County LAWRENCE	Route 412	Job Number: 100781,Mobie LiDAR-CLS
---------------------------	----------------------------	--------------------------	---------------------------	---------------------	--

Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td colspan="2">None</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2">Geoid12A</td> </tr> <tr> <td>Latitude</td> <td>36</td> <td>4 13.7645724</td> </tr> <tr> <td>Longitude</td> <td>90</td> <td>51 5.4523980</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>50.179</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.058</td> <td></td> </tr> </table>	Vertical Determined By:	None		Elevation Datum:			Geoid Datum:	Geoid12A		Latitude	36	4 13.7645724	Longitude	90	51 5.4523980	Ellipsoid Height (M):	50.179		Geoid Height (M):	-28.058	
Vertical Determined By:	None																						
Elevation Datum:																							
Geoid Datum:	Geoid12A																						
Latitude	36		4 13.7645724																				
Longitude	90		51 5.4523980																				
Ellipsoid Height (M):	50.179																						
Geoid Height (M):	-28.058																						
Horizontal Datum NAD 83 (1997)																							
Northing (M)	193,330.2451																						
Easting (M)	503,454.1939																						
Elevation (M)*	78.227																						
Northing (SFT)	634,284.3125																						
Easting (SFT)	1,651,749.3012																						
Elevation (SFT)*	256.650																						

Convergence Angle	0	40	5.8896444
Scale Factor	0.999971865		
Elevation Adjust. Factor	0.9999877238		
Combined Adjust. Factor	0.9999595891		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	East of cl of dw		6.40	21.0	AZ Mark Station
MK # 2	North of cl of 412		22.86	75.0	Geodetic Azimuth
MK # 3	NE of center of HW	243	25.91	85.0	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>pp w/guy-298AZ</td> </tr> </table>	Comments	pp w/guy-298AZ
Comments			
pp w/guy-298AZ			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380014	Date Monumented 	Monumented By AHTD	County LAWRENCE	Route 412	Job Number: 100781,Mobie LiDAR-CLS
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Zone Arkansas North	Zone Code 301	Vertical Determined By: None
Horizontal Datum NAD 83 (1997)		Elevation Datum:
Northing (M) 193,368.1655		Geoid Datum: Geoid12A
Easting (M) 508,333.0471		Latitude 36 4 13.1049624
Elevation (M)* 79.228		Longitude 90 47 50.4694392
Northing (SFT) 634,408.7230		Ellipsoid Height (M): 51.166
Easting (SFT) 1,667,756.0054		Geoid Height (M): -28.077
Elevation (SFT)* 259.934		

Convergence Angle 0 41 59.3500581	Location Description From the Lawrence Co. on HWY.412, go east on 412 for 1.4 miles to the station on the left. Standard alum cap stamped 380014, 2012. with 4 ft. rebar. LAT:36 04 13 LONG:90 47 51
Scale Factor 0.999971837	
Elevation Adjust. Factor 0.9999875667	
Combined Adjust. Factor 0.9999594040	

SUPERCEDED CONTROL	
Horizontal Datum 	
Latitude 	
Longitude 	
Ellipsoid Height: 	
Grid Northing (Meters) 	
Grid Easting (Meters) 	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CL of 412	0	17.48	57.3	AZ Mark Station
MK # 2	CMP	243	14.32	47.0	Geodetic Azimuth
MK # 3	Co.Rd	270	17.37	57.0	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 150px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380014A	Date Monumented 	Monumented By AHTD	County LAWRENCE	Route 412	Job Number: 100781,Mobie LiDAR-CLS
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Zone Arkansas North	Zone Code 301	Vertical Determined By: None
Horizontal Datum NAD 83 (1997)		Elevation Datum:
Northing (M) 193,333.9368		Geoid Datum: Geoid12A
Easting (M) 508,903.2799		Latitude 36 4 11.7679332
Elevation (M)* 79.898		Longitude 90 47 27.6991656
Northing (SFT) 634,296.4243		Ellipsoid Height (M): 51.835
Easting (SFT) 1,669,626.8441		Geoid Height (M): -28.080
Elevation (SFT)* 262.132		

Convergence Angle 0 42 12.6000605	Scale Factor 0.999971783	Location Description Starting from the Lawrence Co. line on hwy 412, go east for 1.7miles to the station on the right. Station is a standard alum. cap stamped 380014A, 2012. with a 4ft rebar. LAT: 36 04 12 LONG: 90 47 27
Elevation Adjust. Factor 0.9999874616	Combined Adjust. Factor 0.9999592449	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	West of DW	72	4.57	15.0	
MK # 2	South of CL412	340	13.11	43.0	
MK # 3	East of WP		0.61	2.0	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380015	Date Monumented 10/22/2018	Monumented By AHTD	County LAWRENCE	Route 25	Job Number: 100991
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	192,142.1040	0.0020			
Easting (M)	477,305.5540	0.0020			
Elevation (M)*					
Northing (SFT)	630,386.2195				
Easting (SFT)	1,565,959.9717				
Elevation (SFT)*					

Convergence Angle	0	29	57.5824662		
Scale Factor	0.999970646				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CENTER OF LAKE CHARLES MONUMENT	301	31.88	104.6	AZ Mark Station 380015A
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARPG</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARWY</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARJB</td> </tr> </table>	Ref Mon # 1	ARPG	Ref Mon # 2	ARWY	Ref Mon # 3	ARJB	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARPG						
Ref Mon # 2	ARWY						
Ref Mon # 3	ARJB						

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380015A	Date Monumented 10/22/2018	Monumented By AHTD	County LAWRENCE	Route 25	Job Number: 100991
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	192,325.8339	0.0020			
Easting (M)	477,759.9012	0.0020			
Elevation (M)*					
Northing (SFT)	630,989.0067				
Easting (SFT)	1,567,450.6092				
Elevation (SFT)*					

Convergence Angle	0	30	8.1842910
Scale Factor	0.999970882		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						380015
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG	
Ref Mon # 2 ARWY	
Ref Mon # 3 ARJB	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12B
Latitude	36 3 49.6939104
Longitude	91 8 12.6155688
Ellipsoid Height (M):	51.024 0.0090
Geoid Height (M):	-28.128 0.0090

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25N AND 117s, IN POWHATAN, GO SOUTH ON HIGHWAY 25 2.35 TO THE MARK ON THE RIGHT, 38.4' NORTH OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2" CAP STAMPED "2018 380015A" DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380016	Date Monumented 10/22/2018	Monumented By AHTD	County LAWRENCE	Route 25	Job Number: 100991
--------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	189,882.6730	0.0020			
Easting (M)	470,898.4359	0.0020			
Elevation (M)*					

Northing (SFT)	622,973.4030	
Easting (SFT)	1,544,939.2851	
Elevation (SFT)*		

Convergence Angle	0	27	28.1848685
Scale Factor	0.999967816		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF SR-25 AND SR-230 IN STRAWBERRY, GO N ON SR-25 8.1 MILES TO THE STATION ON THE LEFT. 18' NW OF THE C/L OF SR-25, 31' SW OF CR-263. THE MARK IS A STANDARD 2½" CAP STAMPED "380016 2018" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

Location Reference Marks							
Description		Azimuth	Distance		AZ Mark Station	Geodetic Azimuth	Grid Azimuth
			Meters	Feet			
MK # 1	N COR OF BRIDGE	222	13.41	44.0	380016A		
MK # 2							
MK # 3							

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Comments </div> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380016A	Date Monumented 10/22/2018	Monumented By AHTD	County LAWRENCE	Route 25	Job Number: 100991
---------------------------	--------------------------------------	------------------------------	---------------------------	--------------------	------------------------------

Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	189,544.7214	0.0020			
Easting (M)	470,524.8225	0.0020			
Elevation (M)*					
Northing (SFT)	621,864.6401				
Easting (SFT)	1,543,713.5218				
Elevation (SFT)*					

Convergence Angle	0	27	19.4373555
Scale Factor	0.999967397		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	224	27.13	89.0	380016
MK # 2	BRACE IN FENCE	70	13.11	43.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380017	Date Monumented 10/22/2018	Monumented By AHTD	County LAWRENCE	Route 25	Job Number: 100991
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	185,142.1884	0.0020			
Easting (M)	466,719.0214	0.0020			
Elevation (M)*					
Northing (SFT)	607,420.6631				
Easting (SFT)	1,531,227.3227				
Elevation (SFT)*					

Convergence Angle	0	25	50.2010466
Scale Factor	0.999962179		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	PP WITH TRANSFORMER	200	17.07	56.0	380017A
MK # 2	LP & TB	176	25.91	85.0	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 150px;"></div>
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Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-25 AND SR-230 IN STRAWBERRY, GO N ON SR-25 4.1 MILES TO THE STATION ON THE LEFT. 22' N OF THE C/L OF SR-25, 20' N OF C/L DW. THE MARK IS A STANDARD 2½" CAP STAMPED "380017 2018" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380017A	Date Monumented 10/22/2018	Monumented By AHTD	County LAWRENCE	Route 25	Job Number: 100991
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	184,756.2474	0.0020			
Easting (M)	466,412.2852	0.0020			
Elevation (M)*					
Northing (SFT)	606,154.4550				
Easting (SFT)	1,530,220.9724				
Elevation (SFT)*					

Convergence Angle	0	25	43.0072889		
Scale Factor	0.999961743				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF SR-25 AND SR-230 IN STRAWBERRY, GO N ON SR-25 3.8 MILES TO THE STATION ON THE RIGHT. 25' E OF THE C/L OF SR-25, 12' N C/L GRAVEL DW. 15' NW OF CENTER OF GATE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "380017A 2018" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	FE CORNER	44	23.16	76.0	
MK # 2	GP	211	37.19	122.0	
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380018	Date Monumented 4/8/2019	Monumented By ARDOT	County LAWRENCE	Route 230	Job Number: 101054
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	173,501.3941	0.0020			
Easting (M)	484,449.6298	0.0020			
Elevation (M)*					
Northing (SFT)	569,229.1571				
Easting (SFT)	1,589,398.4938				
Elevation (SFT)*					

Convergence Angle	0	32	39.5759451		
Scale Factor	0.999950468				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 367 AND STATE HIGHWAY 230, IN ALICIA, GO EAST ON HIGHWAY 230 1.25 MILES TO THE MARK ON THE RIGHT, 21' SOUTH OF THE C/L OF THE HIGHWAY AND 18.7' EAST OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 380018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NORTHEAST CORNER BRIDGE		207	5.94	19.5
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARJB</p> <p>Ref Mon # 2 ARBT</p> <p>Ref Mon # 3 ARPG, MOAT, MODP</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380018A	Date Monumented 4/8/2019	Monumented By ARDOT	County LAWRENCE	Route 230	Job Number: 101054
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	173,488.3526	0.0020			
Easting (M)	484,873.0284	0.0020			
Elevation (M)*					
Northing (SFT)	569,186.3702				
Easting (SFT)	1,590,787.5940				
Elevation (SFT)*					

Convergence Angle	0	32	49.3970347		
Scale Factor	0.999950453				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 367 AND STATE HIGHWAY 230, IN ALICIA, GO EAST ON HIGHWAY 230 1.5 MILES TO THE MARK ON THE RIGHT, 16.7' SOUTH OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 380018A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station 380018
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB Ref Mon # 2 ARBT Ref Mon # 3 ARPG, MOAT, MODP	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380019	Date Monumented 4/8/2019	Monumented By ARDOT	County LAWRENCE	Route 230	Job Number: 101054
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	174,075.5842	0.0020			
Easting (M)	492,872.3692	0.0010			
Elevation (M)*					
Northing (SFT)	571,112.9792				
Easting (SFT)	1,617,032.0980				
Elevation (SFT)*					

Convergence Angle	0	35	55.1434875
Scale Factor	0.999950886		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SILO	103	39.93	131.0
MK # 2	PP W/METER LOOP & TRANSFORMER			
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	
Ref Mon # 2 ARBT	
Ref Mon # 3 ARPG, MOAT, MODP	

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid12B

Latitude 35 53 52.8660924

Longitude 90 58 16.3624044

Ellipsoid Height (M): 49.938 0.0070

Geoid Height (M): -27.872 0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 91 AND STATE HIGHWAY 230, NORTH OF EGYPT, GO WEST ON HIGHWAY 230 1.5 MILES TO THE MARK ON THE LEFT, 22' SOUTH OF THE C/L OF THE HIGHWAY AND 22' WEST OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 380019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380019A	Date Monumented 4/8/2019	Monumented By ARDOT	County LAWRENCE	Route 230	Job Number: 101054
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	174,076.5368	0.0020			
Easting (M)	493,296.6851	0.0010			
Elevation (M)*					
Northing (SFT)	571,116.1045				
Easting (SFT)	1,618,424.2077				
Elevation (SFT)*					

Convergence Angle	0	36	4.9894323
Scale Factor	0.999950883		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	EAST OF NORTH END CMP	279	27.43	90.0	380019
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	
Ref Mon # 2 ARBT	
Ref Mon # 3 ARPG, MOAT, MODP	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	35 53 52.7528256
Longitude	90 57 59.4420408
Ellipsoid Height (M):	49.059 0.0070
Geoid Height (M):	-27.871 0.0070

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 91 AND STATE HIGHWAY 230, NORTH OF EGYPT, GO WEST ON HIGHWAY 230 1.25 MILES TO THE MARK ON THE RIGHT, 17.7' NORTH OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 380019A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380020	Date Monumented 4/8/2019	Monumented By ARDOT	County LAWRENCE	Route 230	Job Number: 101054
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	175,578.8635	0.0020			
Easting (M)	499,275.5925	0.0020			
Elevation (M)*	76.006				
Northing (SFT)	576,044.9880				
Easting (SFT)	1,638,040.0064				
Elevation (SFT)*	249.364				

Convergence Angle	0	38	24.1107575
Scale Factor	0.999952144		
Elevation Adjust. Factor	0.9999880723		
Combined Adjust. Factor	0.9999402168		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/GUY	41	11.83	38.8
MK # 2	NORTH END CMP	90	23.77	78.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	ELEV. BASED ON TBM 900 FROM JOB #100869 WHICH WAS BASED ON NGS 1ST ORDER BM's R 315 & D 3
Ref Mon # 2 ARBT	
Ref Mon # 3 ARPG, MOAT, MODP	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	35 54 39.3936408
Longitude	90 54 0.3605256
Ellipsoid Height (M):	48.104 0.0080
Geoid Height (M):	-27.868 0.0080

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 349N AND STATE HIGHWAY 230, WEST OF BONO, GO WEST ON HIGHWAY 230 0.5 MILES TO THE MARK ON THE RIGHT, 22' NORTH OF THE C/L OF THE HIGHWAY AND 12.4' WEST OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 380020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380020A	Date Monumented 4/8/2019	Monumented By ARDOT	County LAWRENCE	Route 230	Job Number: 101054
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	175,562.2802	0.0020			
Easting (M)	499,714.8865	0.0020			
Elevation (M)*	75.951				
Northing (SFT)	575,990.5810				
Easting (SFT)	1,639,481.2568				
Elevation (SFT)*	249.183				

Convergence Angle	0	38	34.3012632
Scale Factor	0.999952125		
Elevation Adjust. Factor	0.9999880809		
Combined Adjust. Factor	0.9999402065		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/GUY	52	15.36	50.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARJB Ref Mon # 2 ARBT Ref Mon # 3 ARPG, MOAT, MODP	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON TBM 900 FROM JOB #100869 WHICH WAS BASED ON NGS 1ST ORDER BM's R 315 & D 3</td> </tr> </table>	Comments	ELEV. BASED ON TBM 900 FROM JOB #100869 WHICH WAS BASED ON NGS 1ST ORDER BM's R 315 & D 3
Comments			
ELEV. BASED ON TBM 900 FROM JOB #100869 WHICH WAS BASED ON NGS 1ST ORDER BM's R 315 & D 3			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 349N AND STATE HIGHWAY 230, WEST OF BONO, GO EAST ON HIGHWAY 230 0.2 MILES TO THE MARK ON THE LEFT, 18.6' NORTH OF THE C/L OF THE HIGHWAY AND 19' WEST OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 380020A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	380020
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380021	Date Monumented 11/2/2020	Monumented By AHTD	County LAWRENCE	Route I-57	Job Number: 100512
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	196,665.8759	0.0020			
Easting (M)	498,098.7488	0.0020			
Elevation (M)*					
Northing (SFT)	645,227.9612				
Easting (SFT)	1,634,178.9784				
Elevation (SFT)*					

Convergence Angle	0	38	2.2142385
Scale Factor	0.999976536		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE PEDESTAL	233	38.89	127.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid18
Latitude	36 6 3.9560004
Longitude	90 54 37.9899324
Ellipsoid Height (M):	53.835 0.0080
Geoid Height (M):	-28.090 0.0080

Location Description
THE INTERSECTION OF US HWY 412 AND STATE HWY 34 IN WALNUT GROVE, AR. GO EAST ON STATE HWY 34 FOR 3.41 MILES TO THE STATION ON THE LEFT. THE POINT IS 21.0' NORTH OF THE CL OF STATE HWY 34.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380021A	Date Monumented 11/2/2020	Monumented By AHTD	County LAWRENCE	Route I-57	Job Number: 100512
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	196,367.2262	0.0020			
Easting (M)	497,756.1967	0.0020			
Elevation (M)*					
Northing (SFT)	644,248.1413				
Easting (SFT)	1,633,055.1220				
Elevation (SFT)*					

Convergence Angle	0	37	54.1689945
Scale Factor	0.999976119		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB Ref Mon # 2 ARPG Ref Mon # 3 MODP, MOKE	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid18
Latitude	36 5 54.3897600
Longitude	90 54 51.8157720
Ellipsoid Height (M):	53.823 0.0090
Geoid Height (M):	-28.086 0.0090

Location Description
THE INTERSECTION OF US HWY 412 AND STATE HWY 34 IN WALNUT GROVE, AR. GO EAST ON STATE HWY 34 FOR 3.13 MILES TO THE STATION ON THE LEFT. THE POINT IS 54.6' NORTH OF THE CL OF STATE HWY 34 AND 61.6' SOUTH OF A HEADWALL.

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380022	Date Monumented 11/3/2020	Monumented By AHTD	County LAWRENCE	Route I-57	Job Number: 100512
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	200,041.2966	0.0020			
Easting (M)	498,149.4813	0.0020			
Elevation (M)*					
Northing (SFT)	656,302.1539				
Easting (SFT)	1,634,345.4232				
Elevation (SFT)*					

Convergence Angle	0	38	4.2640154
Scale Factor	0.999981460		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18" PIPE CULVERT	275	18.50	60.7
MK # 2	4 BARB FENCE	3	14.23	46.7
MK # 3	POWER POLE	71	38.25	125.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

Location Description
THE INTERSECTION OF US HWY 67 AND STATE HWY 34 IN WALNUT RIDGE. GO NORTH ON US HWY 67 FOR 4.02 MILES TO LAWRENCE COUNTY ROAD 414 ON THE RIGHT. GO EAST ON LAWRENCE COUNTY ROAD 414 FOR 2.2 MILES TO LAWRENCE COUNTY ROAD 408 ON THE RIGHT. GO EAST ON LAWRENCE COUNTY ROAD 408 FOR 0.89 MILES TO THE STATION ON THE RIGHT. THE POINT IS 27.6 SOUTH OF THE CL OF LAWRENCE COUNTY ROAD 408, AND 25' EAST OF A FIELD ENTRANCE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380022A	Date Monumented 11/3/2020	Monumented By AHTD	County LAWRENCE	Route I-57	Job Number: 100512
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	200,057.6148 0.0010
Easting (M)	497,737.9553 0.0020
Elevation (M)*	

Northing (SFT)	656,355.6912	
Easting (SFT)	1,632,995.2750	
Elevation (SFT)*		

Convergence Angle	0	37	54.6914070
Scale Factor	0.999981491		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 TELEPHONE PEDESTAL	290	6.46	21.2	AZ Mark Station 380022
MK # 2 POWER POLE	41	2.62	8.6	Geodetic Azimuth 92° 54 ' 9"
MK # 3				Grid Azimuth 92° 16 ' 15"

Area Reference Monuments (used for Processing) Ref Mon # 1 ARJB Ref Mon # 2 ARPG Ref Mon # 3 MODP, MOKE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG </td> </tr> </table>	Comments	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Comments			
STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390001 RESET	4/15/2002	AHTD	LEE	1	110229

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	48,267.7589	
Easting (M)	512,562.8780	
Elevation (M)*	67.666	
Northing (SFT)	158,358.4723	
Easting (SFT)	1,681,633.3756	
Elevation (SFT)*	222.001	

Convergence Angle	0	42	55.5741388
Scale Factor	1.000038084		
Elevation Adjust. Factor	0.9999893811		
Combined Adjust. Factor	1.0000274647		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST	150	28.30	92.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEVATION BY 3 WIRE
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390001A	Date Monumented 8/25/1994	Monumented By AHTD	County LEE	Route 1	Job Number: 110229, 110217
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Vertical Determined By:</td> <td colspan="3">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="3">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="3"></td> </tr> <tr> <td>Latitude</td> <td>34</td> <td>45</td> <td>56.5845048</td> </tr> <tr> <td>Longitude</td> <td>90</td> <td>46</td> <td>25.0022316</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td colspan="2">39.960</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td colspan="2">-26.700</td> <td></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality			Elevation Datum:	NAVD 88			Geoid Datum:				Latitude	34	45	56.5845048	Longitude	90	46	25.0022316	Ellipsoid Height (M):	39.960			Geoid Height (M):	-26.700		
Vertical Determined By:	LEVEL - Unkown Quality																													
Elevation Datum:	NAVD 88																													
Geoid Datum:																														
Latitude	34		45	56.5845048																										
Longitude	90	46	25.0022316																											
Ellipsoid Height (M):	39.960																													
Geoid Height (M):	-26.700																													
Horizontal Datum NAD 83 (1997)																														
Northing (M)	48,669.4429																													
Easting (M)	512,274.1720																													
Elevation (M)*	67.749																													
Northing (SFT)	159,676.3306	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4" style="text-align: center;">Location Description</td> </tr> <tr> <td colspan="4" style="padding: 5px;"> TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 79 ON THE NORTH EDGE OF MARIANNA, GO SOUTH ON STATE HIGHWAY 1 FOR 0.72 MILES TO THE STATION ON THE RIGHT. THE STATION IS 21.10 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 1, 7.0 METERS SOUTHEAST OF A FIELD ENTRANCE AND 0.74 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390001A 1994" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO HARN IN APRIL 2002. </td> </tr> </table>	Location Description				TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 79 ON THE NORTH EDGE OF MARIANNA, GO SOUTH ON STATE HIGHWAY 1 FOR 0.72 MILES TO THE STATION ON THE RIGHT. THE STATION IS 21.10 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 1, 7.0 METERS SOUTHEAST OF A FIELD ENTRANCE AND 0.74 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390001A 1994" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.																							
Location Description																														
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 79 ON THE NORTH EDGE OF MARIANNA, GO SOUTH ON STATE HIGHWAY 1 FOR 0.72 MILES TO THE STATION ON THE RIGHT. THE STATION IS 21.10 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 1, 7.0 METERS SOUTHEAST OF A FIELD ENTRANCE AND 0.74 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390001A 1994" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.																														
Easting (SFT)	1,680,686.1793																													
Elevation (SFT)*	222.273																													
Convergence Angle 0 42 49.0833517																														
Scale Factor 1.000037180																														
Elevation Adjust. Factor 0.9999893681																														
Combined Adjust. Factor 1.0000265477																														

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks											
Description		Azimuth	Distance								
			Meters	Feet							
MK # 1	CORNER POST	318	2.60	8.5	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">AZ Mark Station</td> <td>390001 RESET</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>145 00 26</td> </tr> <tr> <td>Grid Azimuth</td> <td>144 17 37</td> </tr> </table>	AZ Mark Station	390001 RESET	Geodetic Azimuth	145 00 26	Grid Azimuth	144 17 37
AZ Mark Station	390001 RESET										
Geodetic Azimuth	145 00 26										
Grid Azimuth	144 17 37										
MK # 2	16" METAL CULVERT	31	8.00	26.2							
MK # 3											

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>BRINKLEYPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>H 349</td> </tr> <tr> <td>Ref Mon # 3</td> <td>390006</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	BRINKLEYPORT	Ref Mon # 2	H 349	Ref Mon # 3	390006	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px; vertical-align: top;">ELEVATION BY 3 WIRE</td> </tr> </table>	Comments	ELEVATION BY 3 WIRE
Area Reference Monuments (used for Processing)											
Ref Mon # 1	BRINKLEYPORT										
Ref Mon # 2	H 349										
Ref Mon # 3	390006										
Comments											
ELEVATION BY 3 WIRE											

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390002	Date Monumented 8/25/1994	Monumented By AHTD	County LEE	Route 1	Job Number: 110217
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 621,868.1820		Latitude 34 39 39.1753656
Easting (M) 512,915.9760		Longitude 90 46 5.1094380
Elevation (M)* 61.241		Ellipsoid Height (M): 33.707
		Geoid Height (M): -27.534

Northing (SFT) 2,040,245.8604		
Easting (SFT) 1,682,791.8313		
Elevation (SFT)* 200.922		

Convergence Angle 0 41 22.1669447		
Scale Factor 0.999978123		
Elevation Adjust. Factor 0.9999903894		
Combined Adjust. Factor 0.9999685126		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
<p>FROM THE JCT. OF HWY. 1 AND HWY. 49 IN WALNUT CORNER, GO NORTH ON HWY. 1 FOR 11.265 KM (7.0 MILES) TO THE JCT. WITH HWY. 121. CONTINUE AHEAD ON HWY. 1 FOR 0.418 KM (0.26 MILES) TO THE STATION ON THE LEFT. THE STATION IS 17.9 METERS WEST OF THE CENTERLINE OF HWY. 1 AND 0.45 METERS EAST OF A WITNESS POST AND A TWO INCH IRON PIPE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "390002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	8	10.55	34.6
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	Cross Reference Job: 110218
Ref Mon # 2 GIL	
Ref Mon # 3 RIDDELL	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390002A	Date Monumented 8/25/1994	Monumented By AHTD	County LEE	Route 1	Job Number: 110217
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	622,446.0320	
Easting (M)	512,949.2070	
Elevation (M)*	61.844	
Northing (SFT)	2,042,141.6900	
Easting (SFT)	1,682,900.8566	
Elevation (SFT)*	202.900	

Convergence Angle	0	41	23.0502810
Scale Factor	0.999979119		
Elevation Adjust. Factor	0.9999902948		
Combined Adjust. Factor	0.9999694140		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>BRINKLEYPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>GIL</td> </tr> <tr> <td>Ref Mon # 3</td> <td>RIDDELL</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	BRINKLEYPORT	Ref Mon # 2	GIL	Ref Mon # 3	RIDDELL	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Cross Reference Job: 110218</td> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	Cross Reference Job: 110218	
Area Reference Monuments (used for Processing)												
Ref Mon # 1	BRINKLEYPORT											
Ref Mon # 2	GIL											
Ref Mon # 3	RIDDELL											
Comments												
Cross Reference Job: 110218												

Vertical Determined By: LEVEL - Unkown Quality	
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 39 57.9135888
Longitude	90 46 3.5311800
Ellipsoid Height (M):	34.308
Geoid Height (M):	-27.536

Location Description
<p>FROM THE JCT. OF HWY. 1 AND HWY. 49 IN WALNUT CORNER, GO NORTH ON HWY. 1 FOR 11.265 KM (7.0 MILES) TO THE JCT. WITH HWY. 121. CONTINUE AHEAD ON HWY. 1 FOR 1.013 KM (0.63 MILES) TO THE STATION ON THE RIGHT. THE STATION IS ABOUT 112 METERS SOUTH OF A FIELD ENTRANCE, 17.3 METERS EAST OF THE CENTERLINE OF HWY. 1 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "390002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390003	Date Monumented 12/12/2000	Monumented By AHTD	County LEE	Route 79	Job Number: 110387
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	50,082.1469	
Easting (M)	487,693.9260	
Elevation (M)*		
Northing (SFT)	164,311.1770	
Easting (SFT)	1,600,042.4889	
Elevation (SFT)*		

Convergence Angle	0	33	26.9875184
Scale Factor	1.000033463		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 39 LOCATED IN MONROE, GO NORTHEAST ON U.S. HIGHWAY 79 FOR 8.047 KM (5.00 MI) TO THE JUNCTION OF LEE COUNTY ROAD 905 AND THE STATION ON THE LEFT. THE STATION IS 16.25 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 79, 6.40 METERS SOUTHWEST OF THE CENTER OF LEE COUNTY ROAD 905, AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390003 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 525.876 METERS.</p>				

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	POWER POLE	282	24.10	79.1		390003A
MK # 2						316 47 12
MK # 3						316 13 45

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	
Ref Mon # 2 540002	
Ref Mon # 3 480005	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390003A	Date Monumented 12/12/2000	Monumented By AHTD	County LEE	Route N/A	Job Number: 110387
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	50,461.8999	
Easting (M)	487,330.1270	
Elevation (M)*		
Northing (SFT)	165,557.0833	
Easting (SFT)	1,598,848.9250	
Elevation (SFT)*		

Convergence Angle	0	33	18.7462521
Scale Factor	1.000032627		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 39 LOCATED IN MONROE, GO NORTHEAST ON U.S. HIGHWAY 79 FOR 8.047 KM (5.00 MI) TO THE JUNCTION OF LEE COUNTY ROAD 905, TURN NORTH (LEFT) ON COUNTY ROAD 905 FOR .531 KM (.33 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.60 METERS SOUTHWEST OF THE CENTER OF LEE COUNTY ROAD 905, AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390003A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 525.876 METERS.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	318	12.60	41.3
MK # 2	POWER POLE	6	20.00	65.6
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 BRINKLEYPORT</p> <p>Ref Mon # 2 540002</p> <p>Ref Mon # 3 480005</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390004	Date Monumented 12/12/2000	Monumented By AHTD	County LEE	Route 78	Job Number: R10087
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 49,901.7759		Latitude 34 46 43.2585228
Easting (M) 494,287.8950		Longitude 90 58 11.7196320
Elevation (M)* 61.887		Ellipsoid Height (M): 35.262
		Geoid Height (M): -26.625

Northing (SFT) 163,719.4098		
Easting (SFT) 1,621,676.2022		
Elevation (SFT)* 203.041		

Convergence Angle 0 35 57.8451127		
Scale Factor 1.000034003		
Elevation Adjust. Factor 0.9999902880		
Combined Adjust. Factor 1.0000242907		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 78 LOCATED ABOUT 17.70 KM (11.00 MI) WEST OF MARIANNA, GO NORTHWEST ON STATE HIGHWAY 78 FOR 0.467 KM (0.29 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.00 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 78 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390004 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 434.448 METERS.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	303	21.30	69.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	ELEVATION WAS ARRIVED AT ON THIS STATION BY 3 WIRE LEVEL FROM NGS BENCH MARK P 176, RUN BY CREW S5102.
Ref Mon # 2 540002	
Ref Mon # 3 480005	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390005	Date Monumented 12/12/2000	Monumented By AHTD	County LEE	Route 79	Job Number: 110387
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	49,642.4229	
Easting (M)	507,799.1090	
Elevation (M)*		
Northing (SFT)	162,868.5158	
Easting (SFT)	1,666,004.2434	
Elevation (SFT)*		

Convergence Angle	0	41	6.9601679
Scale Factor	1.000034905		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station
MK # 2	NONE				Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	
Ref Mon # 2 540002	
Ref Mon # 3 480005	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390005A	Date Monumented 12/12/2000	Monumented By AHTD	County LEE	Route 79	Job Number: 110387
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	49,624.7539	
Easting (M)	507,279.8500	
Elevation (M)*		
Northing (SFT)	162,810.5468	
Easting (SFT)	1,664,300.6412	
Elevation (SFT)*		

Convergence Angle	0	40	55.0733471
Scale Factor	1.000034931		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TRANSMISSION LINE POWER POLE	223	29.90	98.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	
Ref Mon # 2 540002	
Ref Mon # 3 480005	

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 34 46 29.5556448

Longitude 90 49 40.9296684

Ellipsoid Height (M): 35.942

Geoid Height (M): -26.672

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 243 NORTH, LOCATED ON THE WEST SIDE OF MARIANNA, GO WEST ON U.S. HIGHWAY 79 FOR 3.122 KM (1.94 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.25 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390005A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 519.549 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390006	Date Monumented 12/12/2000	Monumented By AHTD	County LEE	Route 1	Job Number: 110229, R10088,110217
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	36,628.6119	
Easting (M)	512,974.4960	
Elevation (M)*	61.469	
Northing (SFT)	120,172.3709	
Easting (SFT)	1,682,983.8256	
Elevation (SFT)*	201.669	

Convergence Angle	0	43	1.6583516
Scale Factor	1.000065772		
Elevation Adjust. Factor	0.9999903536		
Combined Adjust. Factor	1.0000561250		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE LEE AND PHILLIPS COUNTY LINE LOCATED ABOUT 14.484 KM " 9 MI" SOUTH OF MARIANNA ON STATE HIGHWAY 1, GO NORTH ON STATE HIGHWAY 1 FOR 1.609KM (1.00MI) TO THE JUNCTION OF STATE HIGHWAY 121 AND THE STATION ON THE RIGHT. THE STATION MARK IS 27.30 METERS EAST OF THE CENTER OF HIGHWAY 1, 12.50 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 121, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390006 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 471.071 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVEL FROM NGS BENCH MARK Z 171 RESET, RUN BY CREW S5102.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	337	23.80	78.1	AZ Mark Station 390006A
MK # 2	WEST END CONCRETE HEAD WALL	53	9.85	32.3	Geodetic Azimuth 182 33 31
MK # 3					Grid Azimuth 181 50 30

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MORO TRI	<p>DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012</p> <p>***** This Monument was reported destroyed on 04/24/2014*****</p> <p>*****</p>
Ref Mon # 2 540002	
Ref Mon # 3 540006	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390006A	Date Monumented 12/12/2000	Monumented By AHTD	County LEE	Route 1	Job Number: 110229, R10088
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	36,157.7619	
Easting (M)	512,959.3570	
Elevation (M)*	61.263	
Northing (SFT)	118,627.5905	
Easting (SFT)	1,682,934.1571	
Elevation (SFT)*	200.994	

Convergence Angle	0	43	1.1777960
Scale Factor	1.000066961		
Elevation Adjust. Factor	0.9999903859		
Combined Adjust. Factor	1.0000573463		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE JUNCTION BOX	150	18.65	61.2	
MK # 2	SOUTH END CORRIGATED METAL PIPE	160	12.75	41.8	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MORO TRI	ELEVATION BY 3 WIRE
Ref Mon # 2 540002	
Ref Mon # 3 540006	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390007	Date Monumented 12/12/2000	Monumented By AHTD	County LEE	Route 121	Job Number: R10088
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	39,296.3389	
Easting (M)	501,550.1710	
Elevation (M)*	59.404	
Northing (SFT)	128,924.7385	
Easting (SFT)	1,645,502.5194	
Elevation (SFT)*	194.895	

Convergence Angle	0	38	41.3025117
Scale Factor	1.000058804		
Elevation Adjust. Factor	0.9999906777		
Combined Adjust. Factor	1.0000494811		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	177	34.00	111.5	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MORO TRI	
Ref Mon # 2 540002	
Ref Mon # 3 540006	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 40 56.5763484
Longitude	90 53 30.8163084
Ellipsoid Height (M):	32.702
Geoid Height (M):	-26.702

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 121 AND STATE HIGHWAY 243 SOUTH LOCATED ABOUT 8.047 KM (5 MI) WEST OF RONDO, GO NORTH ON STATE HIGHWAY 121 FOR 1.046 KM (0.65 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.45 METERS WEST OF THE CENTER OF STATE HIGHWAY 121 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390007 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 498.465 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVEL FROM NGS BENCH MARK J 172 RUN BY CREW S5102.</p>

AZ Mark Station	390007A
Geodetic Azimuth	342 05 13
Grid Azimuth	341 26 31

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390007A	Date Monumented 12/12/2000	Monumented By AHTD	County LEE	Route 121	Job Number: R10088
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	39,768.9099	
Easting (M)	501,391.5190	
Elevation (M)*	58.161	
Northing (SFT)	130,475.1652	
Easting (SFT)	1,644,982.0086	
Elevation (SFT)*	190.817	

Convergence Angle	0	38	37.7976234
Scale Factor	1.000057644		
Elevation Adjust. Factor	0.9999908727		
Combined Adjust. Factor	1.0000485162		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	203	4.30	14.1	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>MORO TRI</td> </tr> <tr> <td>Ref Mon # 2</td> <td>540002</td> </tr> <tr> <td>Ref Mon # 3</td> <td>540006</td> </tr> </table>	Ref Mon # 1	MORO TRI	Ref Mon # 2	540002	Ref Mon # 3	540006	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	MORO TRI						
Ref Mon # 2	540002						
Ref Mon # 3	540006						

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 41 11.9680116
Longitude	90 53 36.8394972
Ellipsoid Height (M):	31.465
Geoid Height (M):	-26.696

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 121 AND STATE HIGHWAY 243 SOUTH, LOCATED ABOUT 8.047 KM (5 MI) WEST OF RONDO, GO NORTH ON STATE HIGHWAY 121 FOR 1.609 KM (1.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.25 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 121 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390007A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 498.465 METERS. ELEVATION WAS ARRIVED AT ON THIS STATION BY 3 WIRE LEVEL FROM NGS BENCH MARK J 172, RUN BY CREW S5102.

AZ Mark Station	390007
Geodetic Azimuth	162 05 09
Grid Azimuth	161 26 31

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390008	Date Monumented 4/15/2002	Monumented By AHTD	County LEE	Route 1	Job Number: 110229
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	42,262.4869	
Easting (M)	512,943.6610	
Elevation (M)*	70.527	
Northing (SFT)	138,656.1758	
Easting (SFT)	1,682,882.6611	
Elevation (SFT)*	231.387	

Convergence Angle	0	43	2.5656589
Scale Factor	1.000051962		
Elevation Adjust. Factor	0.9999889321		
Combined Adjust. Factor	1.0000408936		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>BRINKLEYPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>H 349</td> </tr> <tr> <td>Ref Mon # 3</td> <td>390006</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	BRINKLEYPORT	Ref Mon # 2	H 349	Ref Mon # 3	390006	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3 WIRE</td> </tr> </table>	Comments	ELEVATION BY 3 WIRE
Area Reference Monuments (used for Processing)											
Ref Mon # 1	BRINKLEYPORT										
Ref Mon # 2	H 349										
Ref Mon # 3	390006										
Comments											
ELEVATION BY 3 WIRE											

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 243, LOCATED ABOUT 4.0 MILES SOUTH OF MARIANNA, GO SOUTH ON STATE HIGHWAY 1 FOR 0.55 MILES TO THE STATION ON THE LEFT. THE STATION IS 16.90 METERS EAST OF THE CENTER OF STATE HIGHWAY 1 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390008 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	42	28.4251860
Longitude	90	46	1.8327396
Ellipsoid Height (M):	43.743		
Geoid Height (M):	-26.740		

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390009	Date Monumented 4/15/2002	Monumented By AHTD	County LEE	Route 1	Job Number: 110229
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	53,945.0720	
Easting (M)	510,000.9250	
Elevation (M)*	65.062	
Northing (SFT)	176,984.7904	
Easting (SFT)	1,673,228.0348	
Elevation (SFT)*	213.458	

Convergence Angle	0	41	58.5455402
Scale Factor	1.000025717		
Elevation Adjust. Factor	0.9999897898		
Combined Adjust. Factor	1.0000155065		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END REINFORCED CONCRETE PIPE	9	25.35	83.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	ELEVATION BY 3 WIRE
Ref Mon # 2 H 349	
Ref Mon # 3 390006	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390009A	Date Monumented 4/15/2002	Monumented By AHTD	County LEE	Route 121	Job Number: 110229
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	53,411.5019	
Easting (M)	509,922.5240	
Elevation (M)*	65.954	
Northing (SFT)	175,234.2358	
Easting (SFT)	1,672,970.8142	
Elevation (SFT)*	216.384	

Convergence Angle	0	41	56.6016301
Scale Factor	1.000026837		
Elevation Adjust. Factor	0.9999896498		
Combined Adjust. Factor	1.0000164865		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	GAS METER	262	10.80	35.4	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	ELEVATION BY 3 WIRE
Ref Mon # 2 H 349	
Ref Mon # 3 390006	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390010	Date Monumented 4/15/2002	Monumented By AHTD	County LEE	Route 1	Job Number: 110229
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	59,467.0940	
Easting (M)	510,387.1150	
Elevation (M)*	67.313	
Northing (SFT)	195,101.6242	
Easting (SFT)	1,674,495.0598	
Elevation (SFT)*	220.843	

Convergence Angle	0	42	8.9367753
Scale Factor	1.000014521		
Elevation Adjust. Factor	0.9999894365		
Combined Adjust. Factor	1.0000039574		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					390010A
MK # 2						0 49 46
MK # 3						0 07 37

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	ELEVATION BY 3 WIRE
Ref Mon # 2 H 349	
Ref Mon # 3 390006	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390010A	Date Monumented 4/15/2002	Monumented By AHTD	County LEE	Route 1	Job Number: 110229
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	60,036.0390	
Easting (M)	510,388.3750	
Elevation (M)*		
Northing (SFT)	196,968.2380	
Easting (SFT)	1,674,499.1936	
Elevation (SFT)*		

Convergence Angle	0	42	9.1254531
Scale Factor	1.000013409		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 121, LOCATED ON THE NORTH EDGE OF FELTON, GO NORTH ON STATE HIGHWAY 1 FOR 4.11 MILES TO THE STATION ON THE LEFT. THE STATION IS 15.10 METERS EAST OF THE CENTER OF SOUTH BOUND HIGHWAY 1, 11.00 METERS WEST OF THE CENTER OF NORTH BOUND HIGHWAY 1, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390010A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				AZ Mark Station	390010
MK # 2					Geodetic Azimuth	180 49 46
MK # 3					Grid Azimuth	180 07 37

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT Ref Mon # 2 H 349 Ref Mon # 3 390006	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390011	Date Monumented 2/9/2012	Monumented By AHTD	County Lee	Route 131	Job Number: 110570
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	56,980.9287	
Easting (M)	527,477.8287	
Elevation (M)*	60.479	
Northing (SFT)	186,944.9302	
Easting (SFT)	1,730,566.8430	
Elevation (SFT)*	198.422	

Convergence Angle	0	48	39.6251005
Scale Factor	1.000019931		
Elevation Adjust. Factor	0.9999905089		
Combined Adjust. Factor	1.0000104397		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	east of the centerline of highway 131	250	9.45	31.0	
MK # 2	south east of a power pole	283	24.08	79.0	
MK # 3	east of the witness post		0.61	2.0	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Vertical Determined By:	3rd Order - 3 Wire Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID09
Latitude	34 50 19.7040120
Longitude	90 36 22.5924120
Ellipsoid Height (M):	33.499
Geoid Height (M):	-26.943

Location Description
Starting at the junction of highway 131 and 79 go south on 131 for 1.3 miles to the station on the left. The station is a standard alum. cap with a 4 foot rebar.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390011A	Date Monumented 2/9/2012	Monumented By AHTD	County Lee	Route 131	Job Number: 110570
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	57,451.3301	
Easting (M)	527,351.0731	
Elevation (M)*	60.047	
Northing (SFT)	188,488.2388	
Easting (SFT)	1,730,150.9790	
Elevation (SFT)*	197.003	

Convergence Angle	0	48	36.8747473
Scale Factor	1.000018976		
Elevation Adjust. Factor	0.9999905768		
Combined Adjust. Factor	1.0000095526		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	west of the centerline of highway 131	90	10.36	34.0
MK # 2	east of witness post		1.52	5.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID09
Latitude	34 50 35.0252160
Longitude	90 36 27.3189240
Ellipsoid Height (M):	33.061
Geoid Height (M):	-26.943

Location Description
Starting at the junction of highways 131 and 79 go south on 131 for 1 mile to the station on the right. The station is a standard alum. cap with a 4 foot rebar.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390012	Date Monumented 2/29/2016	Monumented By AHTD	County Lee	Route 78	Job Number: 110616
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	42,915.8666 0.0020
Easting (M)	495,854.6277 0.0020
Elevation (M)*	54.999
Northing (SFT)	140,799.8057
Easting (SFT)	1,626,816.3910
Elevation (SFT)*	180.443

Convergence Angle	0 36 31.9992470
Scale Factor	1.000049943
Elevation Adjust. Factor	0.9999913689
Combined Adjust. Factor	1.0000413115

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:		None	
Elevation Datum:			
Geoid Datum:		GEOID12A	
Latitude	34 42	56.0437092	
Longitude	90 57	13.0253796	
Ellipsoid Height (M):	28.260	0.0110	
Geoid Height (M):	-26.741		

Location Description
<p>To reach from the intersection of hwy 121 and 78 in Aubrey. Go west on hwy 78 for 3.0 miles to the station on the right. The station is 1 FT. East of a witness post, 38 FT. West of the centerline of hwy. 78, and 59 FT. North of the center of Lee Co. Rd. 157. The station mark is a 2 1/2 in. Cap stamped "390012 2016" set on top of a 5/8 in. by 4 FT. Rebar driven 0.10 in. below the surface</p>

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Power pole with guy	11	29.50	96.8	390012A
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARWY Ref Mon # 2 MSOX Ref Mon # 3 ARPB	Comments Elevation determined by static GPS holding NGS BM's M during job 1106156 by crew s5102 in February 2016.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390012A	Date Monumented 2/29/2016	Monumented By AHTD	County LEE	Route 78	Job Number: 110616
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	42,238.7001 0.0020
Easting (M)	495,849.9998 0.0020
Elevation (M)*	54.918
Northing (SFT)	138,578.1352
Easting (SFT)	1,626,801.2077
Elevation (SFT)*	180.177

Convergence Angle	0 36 31.7288852
Scale Factor	1.000051548
Elevation Adjust. Factor	0.9999913816
Combined Adjust. Factor	1.0000429292

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By: None	
Elevation Datum:	
Geoid Datum:	GEOID12A
Latitude	34 42 34.0727004
Longitude	90 57 13.4899992
Ellipsoid Height (M):	28.169 0.0110
Geoid Height (M):	-26.745

Location Description
<p>TO REACH FROM THE INTERSECTION OF HWY 121 AND HWY 78 IN AUBREY. GO WEST ON HWY 78 FOR 3.4 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7 FT. NORTH OF A WITNESS POST, 18.5 FT. WEST OF THE CENTERLINE OF HWY 78, AND 17 FT. SOUTH OF THE CENTER OF A GRAVEL FIELD ENTRANCE. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "390012A 2016" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH TRANSFORMER	110	19.30	63.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARWY Ref Mon # 2 MSOX Ref Mon # 3 ARPB	Elevation determined by static GPS holding NGS BM's M during job 1106156 by crew s5102 in February 2016.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390013	Date Monumented 12/2/2019	Monumented By AHTD	County LEE	Route 79	Job Number: 110568, AIRBORNE 2020
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	633,543.2604 0.0030
Easting (M)	486,111.2956 0.0030
Elevation (M)*	

Northing (SFT)	2,078,549.8468	
Easting (SFT)	1,594,850.1423	
Elevation (SFT)*		

Convergence Angle	0	31	35.3315718
Scale Factor	1.000000455		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH FROM THE THE INTERSECTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79 IN MONROE COUNTY, ARKANSAS. TRAVEL NORTH EAST ALONG U.S. HIGHWAY 79, 7.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 390013, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 68 FEET SOUTH EAST OF THE CENTER OF U.S. HIGHWAY 79 AND 133 FEET SOUTH WEST OF THE CENTER OF LEE COUNTY ROAD NUMBER 135 AND 8 FEET NORTH WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	143	2.74	9.0	
MK # 2	TELEPHONE PEDESTAL	221	51.82	170.0	
MK # 3					

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARJB</p> <p>Ref Mon # 2 AROC</p> <p>Ref Mon # 3 ARPB, ARWY</p>	<p style="text-align: center; margin: 0;">Comments</p> <p>STATIC GPS DERIVED ELEV. 183.2578</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390013A	Date Monumented 12/2/2019	Monumented By AHTD	County LEE	Route 79	Job Number: 110568, AIRBORNE 2020
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	633,211.3956 0.0030
Easting (M)	486,503.1570 0.0030
Elevation (M)*	56.348

Northing (SFT)	2,077,461.0537	
Easting (SFT)	1,596,135.7743	
Elevation (SFT)*	184.869	

Convergence Angle	0	31	43.8886315
Scale Factor	0.999999780		
Elevation Adjust. Factor	0.9999911572		
Combined Adjust. Factor	0.9999909372		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF 24" STEEL CULVERT	72	6.10	20.0
MK # 2	SOUTH END OF 24" STEEL CULVERT	118	14.63	48.0
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARJB</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AROC</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARPB, ARWY</td> </tr> </table>	Ref Mon # 1	ARJB	Ref Mon # 2	AROC	Ref Mon # 3	ARPB, ARWY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS FROM GPS #390013 WHOSE ELEVATION IS STATIC GPS DERIVED</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM GPS #390013 WHOSE ELEVATION IS STATIC GPS DERIVED
Ref Mon # 1	ARJB								
Ref Mon # 2	AROC								
Ref Mon # 3	ARPB, ARWY								
Comments									
ELEV. BASED ON DIGITAL LEVELS FROM GPS #390013 WHOSE ELEVATION IS STATIC GPS DERIVED									

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	34 45 56.3745924
Longitude	91 3 18.3199716
Ellipsoid Height (M):	29.610 0.0150
Geoid Height (M):	-26.737 0.0150

Location Description
TO REACH FROM THE INTERSECTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79 IN MONROE COUNTY, ARKANSAS. TRAVEL NORTH EAST ALONG U.S. HIGHWAY 79, 7.1 MILES TO LEE COUNTY ROAD NUMBER 135, ON THE RIGHT, THEN TRAVEL SOUTH EAST ALONG LEE COUNTY ROAD NUMBER 135, 0.2 MILES TO THE STATION ON THE LEFT. THE STATION IS A 2" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 390013A, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 22 FEET NORTH EAST OF THE CENTER OF LEE COUNTY ROAD NUMBER 135 AND 4 FEET SOUTH WEST OF A WITNESS POST. 21 FEET NORTH OF THE CENTER OF A FIELD ENTRANCE LEADING EAST.

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390014	Date Monumented 12/2/2019	Monumented By AHTD	County LEE	Route 79	Job Number: 110568, AIRBORNE 2020
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	634,408.7063 0.0020
Easting (M)	499,920.1236 0.0020
Elevation (M)*	

Northing (SFT)	2,081,389.2306	
Easting (SFT)	1,640,154.6055	
Elevation (SFT)*		

Convergence Angle	0	36	39.4490640
Scale Factor	1.000001930		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	187	33.53	110.0
MK # 2	CENTER OF EAST HEADWALL	250	12.80	42.0
MK # 3	POWER POLE	292	4.57	15.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB Ref Mon # 2 AROC Ref Mon # 3 ARPB, ARWY	STATIC GPS DERIVED ELEV. 205.4409

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390014A	Date Monumented 12/2/2019	Monumented By AHTD	County LEE	Route 79	Job Number: 110568, AIRBORNE 2020
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	634,794.7004 0.0030
Easting (M)	499,912.8462 0.0020
Elevation (M)*	62.415
Northing (SFT)	2,082,655.6129
Easting (SFT)	1,640,130.7296
Elevation (SFT)*	204.773

Convergence Angle	0 36 39.3794799
Scale Factor	1.000002717
Elevation Adjust. Factor	0.9999902052
Combined Adjust. Factor	0.9999929221

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	85	1.83	6.0
MK # 2	IRRIGATION WELL	41	15.24	50.0
MK # 3	POWER POLE	153	29.26	96.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARJB Ref Mon # 2 AROC Ref Mon # 3 ARPB, ARWY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS FROM GPS #390014 WHOSE ELEVATION IS STATIC GPS DERIVED</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM GPS #390014 WHOSE ELEVATION IS STATIC GPS DERIVED
Comments			
ELEV. BASED ON DIGITAL LEVELS FROM GPS #390014 WHOSE ELEVATION IS STATIC GPS DERIVED			

Location Description
TO REACH FROM THE INTERSECTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 79 IN MARIANNA, LEE COUNTY, ARKANSAS. TRAVEL WEST ALONG U.S. HIGHWAY 79, 7.7 MILES TO STATE HIGHWAY 121 THEN TRAVEL NORTH ALONG STATE HIGHWAY 121, 0.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 390014A, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .2 FT BELOW THE GROUND SURFACE, 41 FEET EAST OF THE CENTER OF ARKANSAS HIGHWAY 121 NORTH AND 5 FEET WEST OF A WITNESS POST..

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390015	Date Monumented 12/2/2019	Monumented By AHTD	County LEE	Route 79	Job Number: 110707, AIRBORNE 2020
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	635,556.1507 0.0020
Easting (M)	512,695.1708 0.0020
Elevation (M)*	

Northing (SFT)	2,085,153.8044	
Easting (SFT)	1,682,067.4062	
Elevation (SFT)*		

Convergence Angle	0	41	20.9325366
Scale Factor	1.000003982		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FLAG POLE	143	3.66	12.0
MK # 2	CENTER OF SOUTH HEAD WALL	32	14.63	48.0
MK # 3	NORTH EAST COR. OF METAL SHOP BLD.	72	21.64	71.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB Ref Mon # 2 AROC Ref Mon # 3 ARPB, ARWY	STATIC GPS DERIVED ELEV. 221.1085

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 390015A	Date Monumented 12/2/2019	Monumented By AHTD	County LEE	Route 79	Job Number: 110707, AIRBORNE 2020
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	635,777.5139 0.0020
Easting (M)	512,924.3078 0.0020
Elevation (M)*	64.023
Northing (SFT)	2,085,880.0602
Easting (SFT)	1,682,819.1665
Elevation (SFT)*	210.048

Convergence Angle	0 41 26.0351277
Scale Factor	1.000004432
Elevation Adjust. Factor	0.9999899529
Combined Adjust. Factor	0.9999943848

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	32	32.61	107.0
MK # 2	COMBINATION POLE	244	34.75	114.0
MK # 3	SOUTH WEST COR. OF METAL SHOP BLD.	5	41.15	135.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB Ref Mon # 2 AROC Ref Mon # 3 ARPB, ARWY	ELEV. BASED ON DIGITAL LEVELS FROM GPS #390015, WHOSE ELEVATION IS STATIC GPS DERIVED

Location Description	
TO REACH FROM THE INTERSECTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 79 IN MARIANNA, LEE COUNTY, ARKANSAS. TRAVEL EAST ALONG U.S. HIGHWAY 79, 0.7 MILES TO THE STATION ON THE LEFT. THE STATION IS A 2" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 390015A, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 48 FEET NORTH WEST OF THE CENTER OF U.S. HIGHWAY 79 IN THE CENTER OF A GRAVEL PARKING AREA.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400001	Date Monumented 1/11/1993	Monumented By AHTD	County LINCOLN	Route 425	Job Number: 001930,R20109,R20125
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	536,477.6941	
Easting (M)	413,739.3990	
Elevation (M)*		
Northing (SFT)	1,760,093.9014	
Easting (SFT)	1,357,410.0116	
Elevation (SFT)*		

Convergence Angle	0	4	59.3156530
Scale Factor	0.999921327		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN CROSS TIE		233		37.07	121.6
MK # 2	NBC IN CROSS TIE		276		31.09	102.0
MK # 3	NBC IN CROSS TIE		167		17.37	57.0

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>K 124</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD LITTLE ROCK</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD MON 1</td> </tr> </table>	Ref Mon # 1	K 124	Ref Mon # 2	AHTD LITTLE ROCK	Ref Mon # 3	AHTD MON 1	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	K 124						
Ref Mon # 2	AHTD LITTLE ROCK						
Ref Mon # 3	AHTD MON 1						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 53 49.4897676
Longitude	91 51 5.2123752
Ellipsoid Height (M):	77.531
Geoid Height (M):	-25.733

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 212, LOCATED IN STAR CITY, GO SOUTH ON U.S. HIGHWAY 425 FOR 5.31 KM (3.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 40.00 FEET EAST OF THE CENTER OF U.S. HIGHWAY 425, 27.0 FEET SOUTHEAST OF A DRIVEWAY, AND 7.00 FEET WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "93400001". THIS STATION WAS UPDATED TO "HARN" IN FEBRUARY 2002.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400001A AZ MK	1/11/1993	AHTD	LINCOLN	425	001930,R20109,R20125

Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	535,918.5061	
Easting (M)	413,735.1620	
Elevation (M)*		
Northing (SFT)	1,758,259.2988	
Easting (SFT)	1,357,396.1107	
Elevation (SFT)*		

Convergence Angle	0	4	59.2056765
Scale Factor	0.999921541		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 53 31.3397340
Longitude	91 51 5.4088704
Ellipsoid Height (M):	89.495
Geoid Height (M):	-25.731

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 212, LOCATED IN STAR CITY, GO SOUTH ON U.S. HIGHWAY 425 FOR 5.873 KM (3.65 MI) TO THE STATION ON THE LEFT. THE STATION IS 42.0 FEET EAST OF THE CENTER OF U.S. HIGHWAY 425, 24.0 FEET SOUTH OF A DRIVEWAY AND 7.25 FEET WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "93400001A AZ MK". THIS STATION WAS UPDATED TO "HARN" IN FEBRUARY 2002.</p>

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN COMBINATION POLE	1		39.62	130.0
MK # 2	TELEPHONE JUNCTION BOX	170		27.72	91.0
MK # 3	NBC IN CROSS TIE	274		31.48	103.3

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 K 124</p> <p>Ref Mon # 2 AHTD LITTLE ROCK</p> <p>Ref Mon # 3 AHTD MON 1</p>	<p style="text-align: center; padding: 5px;">Comments</p> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400002	Date Monumented 1/11/1993	Monumented By AHTD	County LINCOLN	Route 425	Job Number: 001930, R20109
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	543,276.1121	
Easting (M)	414,596.7370	
Elevation (M)*		
Northing (SFT)	1,782,398.3778	
Easting (SFT)	1,360,222.7946	
Elevation (SFT)*		

Convergence Angle	0	5	18.2214033
Scale Factor	0.999919346		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF MANHOLE	190	10.66	35.0
MK # 2	NBC IN COMBINATION POLE	239	46.62	152.9
MK # 3	NBC IN POWER POLE	354	13.41	44.0

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>K 124</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD LITTLE ROCK</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD MON 1</td> </tr> </table>	Ref Mon # 1	K 124	Ref Mon # 2	AHTD LITTLE ROCK	Ref Mon # 3	AHTD MON 1	<table style="width: 100%;"> <tr> <td style="width: 100%;">Comments</td> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Ref Mon # 1	K 124								
Ref Mon # 2	AHTD LITTLE ROCK								
Ref Mon # 3	AHTD MON 1								
Comments									

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400002A	Date Monumented 1/11/1993	Monumented By AHTD	County LINCOLN	Route 425	Job Number: R20109
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	543,531.3011	
Easting (M)	414,621.7940	
Elevation (M)*	79.138	
Northing (SFT)	1,783,235.6104	
Easting (SFT)	1,360,305.0025	
Elevation (SFT)*	259.639	

Convergence Angle	0	5	18.7762648
Scale Factor	0.999919294		
Elevation Adjust. Factor	0.9999875808		
Combined Adjust. Factor	0.9999068758		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>FROM THE JCT. OF HWY. 425 AND HWY. 212 IN STAR CITY, GO NORTH ON HWY. 425 FOR 1.30 MILES TO THE STATION ON THE LEFT. THE STATION IS 49.76 FEET WEST OF THE CENTERLINE OF HWY. 425, 108.38 FEET NORTHWEST OF THE ENTRANCE TO A CHURCH AND 3.0 FEET EAST OF A WITNESS POST.</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN COMBINATION POLE	93		35.43	116.2
MK # 2	NBC IN COMBINATION POLE	167		51.26	168.2
MK # 3	NBC IN COMBINATION POLE	5		58.74	192.7

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 CELLPORT</p> <p>Ref Mon # 2 DUMAS</p> <p>Ref Mon # 3 TARRY</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400003A	Date Monumented 4/19/1999	Monumented By AHTD	County LINCOLN	Route 425	Job Number: R20113
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	549,886.1450	
Easting (M)	417,139.2360	
Elevation (M)*	57.137	
Northing (SFT)	1,804,084.7941	
Easting (SFT)	1,368,564.3101	
Elevation (SFT)*	187.457	

Convergence Angle	0	6	13.9111810
Scale Factor	0.999918511		
Elevation Adjust. Factor	0.9999910334		
Combined Adjust. Factor	0.9999095452		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	1	62.58	205.3
MK # 2	TELEPHONE JUNCTION BOX	174	14.88	48.8
MK # 3	NBC IN COMBINATION POLE	224	47.93	157.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 350013	Elevations based on 3 wire from NGS point TARRY
Ref Mon # 2 93400002	
Ref Mon # 3 DIST2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400004	Date Monumented 4/15/1993	Monumented By AHTD	County LINCOLN	Route 425	Job Number: 001930, R20125, R20115
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	524,865.6892	
Easting (M)	414,920.3980	
Elevation (M)*		
Northing (SFT)	1,721,996.8487	
Easting (SFT)	1,361,284.6724	
Elevation (SFT)*		

Convergence Angle	0	5	24.6457641
Scale Factor	0.999927343		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN OAK TREE	13	30.60	100.4	
MK # 2	NBC IN LIGHT POLE	83	52.81	173.3	
MK # 3	NBC IN POWER POLE	176	43.07	141.3	

Area Reference Monuments (used for Processing) Ref Mon # 1 K 124 Ref Mon # 2 AHTD LITTLE ROCK Ref Mon # 3 AHTD MON 1	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description	
TO REACH THE STATION FROM THE DREW-LINCOLN COUNTY LINE LOCATED ABOUT 11.00 MILE NORTH OF MONTICELLO, GO NORTH ON U.S. HIGHWAY 425 FOR 0.80 KM (0.05 MI) TO THE MT. ZION PRESBYTERIAN CHURCH AND THE STATION ON THE RIGHT. THE STATION IS 66.0 FEET EAST OF THE CENTER OF U.S. HIGHWAY 425, 72.69 FEET NORTHWEST OF THE WEST DOOR OF THE CHURCH, AND 2.00 WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "93400004". THIS STATION WAS UPDATED TO "HARN" IN FEBRUARY 2002.	

AZ Mark Station	93400004A AZ MK
Geodetic Azimuth	351 01 46
Grid Azimuth	350 56 22

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400004A AZ MK	Date Monumented 4/15/1993	Monumented By AHTD	County LINCOLN	Route 425	Job Number: 001930, R20125
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	525,430.0601	
Easting (M)	414,830.3990	
Elevation (M)*		
Northing (SFT)	1,723,848.4555	
Easting (SFT)	1,360,989.4007	
Elevation (SFT)*		

Convergence Angle	0	5	22.7067340
Scale Factor	0.999926974		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN PINE TREE	206	46.74	153.4		
MK # 2	NBC IN DOUBLE GUM	237	36.97	121.3		
MK # 3	NBC IN DOUBLE GUM	254	37.04	121.5		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 33 47 50.8482312

Longitude 91 50 23.4195036

Ellipsoid Height (M): 55.414

Geoid Height (M): -25.675

Location Description

TO REACH THE STATION FROM THE DREW-LINCOLN COUNTY LINE LOCATED ABOUT 11.00 MILES NORTH OF MONTICELLO, GO NORTH ON U.S. HIGHWAY 425 FOR .627 KM (0.39 MI) TO THE STATION ON THE RIGHT. THE STATION IS 59.00 FEET EAST OF THE CENTER OF U.S. HIGHWAY 425 AND 2.00 FEET WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "93400004A AZ MK". THIS STATION WAS UPDATED TO "HARN" IN FEBRUARY 2002.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400005	Date Monumented 7/19/1995	Monumented By AHTD	County LINCOLN	Route 65	Job Number: R20091
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	557,848.1610				
Easting (M)	425,984.5730				
Elevation (M)*	56.312				
Northing (SFT)	1,830,206.8415				
Easting (SFT)	1,397,584.3866				
Elevation (SFT)*	184.750				

Convergence Angle	0	9	27.3588596
Scale Factor	0.999918930		
Elevation Adjust. Factor	0.9999911629		
Combined Adjust. Factor	0.9999100936		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	24" METAL PIPE	346	6.60	21.7
MK # 2	24" METAL PIPE	50	5.20	17.1
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>TARRY 1940</td> </tr> <tr> <td>Ref Mon # 2</td> <td>DIST2 1995</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	TARRY 1940	Ref Mon # 2	DIST2 1995	Ref Mon # 3	NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>THE ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING STATION "Y 289 1984".</td> </tr> </table>	Comments	THE ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING STATION "Y 289 1984".
Area Reference Monuments (used for Processing)											
Ref Mon # 1	TARRY 1940										
Ref Mon # 2	DIST2 1995										
Ref Mon # 3	NONE										
Comments											
THE ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING STATION "Y 289 1984".											

Location Description
<p>FROM THE POST OFFICE IN THE SMALL VILLAGE OF GRADY, GO NORTH ON HWY. 65 FOR 2.173 KM (1.35 MILES) TO THE STATION ON THE LEFT, IN A GRAVEL PULL-OFF. THE STATION IS 16.0 METERS SOUTH OF THE CENTER OF HWY. 65, 8.0 METERS NORTH OF THE NORTHERNMOST RAIL OF THE MISSOURI PACIFIC RAILROAD AND 1.0 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "400005 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

AZ Mark Station	400005A
Geodetic Azimuth	121 14 11.68036
Grid Azimuth	121 04 44.32680

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400005A	Date Monumented 7/19/1995	Monumented By AHTD	County LINCOLN	Route 65	Job Number: R20091
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 557,639.9559		Latitude 34 5 15.5025996
Easting (M) 426,330.0040		Longitude 91 42 52.8461460
Elevation (M)* 56.537		Ellipsoid Height (M): 29.830
Northing (SFT) 1,829,523.7553		Geoid Height (M): -26.707
Easting (SFT) 1,398,717.6881		
Elevation (SFT)* 185.488		

Convergence Angle	0	9	34.8884460
Scale Factor	0.999918899		
Elevation Adjust. Factor	0.9999911276		
Combined Adjust. Factor	0.9999100273		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TARRY 1940	THE ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING STATION "Y 289 1984".
Ref Mon # 2 DIST2 1995	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400006	Date Monumented 2/24/1999	Monumented By AHTD	County LINCOLN	Route 425	Job Number: 001930, R20125
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	531,463.6152	
Easting (M)	414,075.1650	
Elevation (M)*		
Northing (SFT)	1,743,643.5442	
Easting (SFT)	1,358,511.6038	
Elevation (SFT)*		

Convergence Angle	0	5	6.4680749
Scale Factor	0.999923518		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	PP		3	19.82	65.0
MK # 2	SWEET GUM TREE		32	19.08	62.6
MK # 3					

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>K 124</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD LITTLE ROCK</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD MON 1</td> </tr> </table>	Ref Mon # 1	K 124	Ref Mon # 2	AHTD LITTLE ROCK	Ref Mon # 3	AHTD MON 1	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	K 124						
Ref Mon # 2	AHTD LITTLE ROCK						
Ref Mon # 3	AHTD MON 1						

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 33 51 6.7254192

Longitude 91 50 52.4331348

Ellipsoid Height (M): 62.358

Geoid Height (M): -25.710

Location Description

TO REACH THE STATION FROM THE DREW-LINCOLN COUNTY LINE, LOCATED ABOUT 12.87 KM (8.00 MI) NORTH OF MONTICELLO, GO NORTH ON U.S. HIGHWAY 425 FOR 6.97 KM (4.33 MI) TO THE STATION ON THE RIGHT. THE STATION IS 59.80 METERS SOUTH OF A GRAVEL DRIVEWAY, 13.453 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400006 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	400006A
Geodetic Azimuth	355 53 59
Grid Azimuth	355 48 53

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400006A	Date Monumented 2/24/1999	Monumented By AHTD	County LINCOLN	Route 425	Job Number: 001930, R20125
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	532,220.7261	
Easting (M)	414,019.7600	
Elevation (M)*		
Northing (SFT)	1,746,127.4989	
Easting (SFT)	1,358,329.8293	
Elevation (SFT)*		

Convergence Angle	0	5	5.2861062
Scale Factor	0.999923147		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN GATE POST	354	3.90	12.8
MK # 2	WOODEN FENCE LINE POST	335	1.75	5.7
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>K 124</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD LITTLE ROCK</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD MON 1</td> </tr> </table>	Ref Mon # 1	K 124	Ref Mon # 2	AHTD LITTLE ROCK	Ref Mon # 3	AHTD MON 1	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	K 124						
Ref Mon # 2	AHTD LITTLE ROCK						
Ref Mon # 3	AHTD MON 1						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 51 31.3026516
Longitude	91 50 54.5449596
Ellipsoid Height (M):	89.559
Geoid Height (M):	-25.714

Location Description
TO REACH THE STATION FROM THE DREW-LINCOLN COUNTY LINE, LOCATED ABOUT 12.87 KM (8.00 MI) NORTH OF MONTICELLO, GO NORTH ON U.S. HIGHWAY 425 FOR 7.72 KM (4.80 MI) TO THE STATION ON THE LEFT SET ON TOP OF A HILL NEXT TO A CEMETERY. THE STATION IS 15.00 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425, 3.82 METERS SOUTH OF THE SOUTH EDGE OF A CONCRETE SIDEWALK LEADING TO A CEMETERY AND 1.00 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "400006A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	400006
Geodetic Azimuth	175 53 58
Grid Azimuth	175 48 53

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400007	Date Monumented 4/19/1999	Monumented By AHTD	County LINCOLN	Route 425	Job Number: R20113
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	556,267.6270	
Easting (M)	415,486.2890	
Elevation (M)*	57.417	
Northing (SFT)	1,825,021.3729	
Easting (SFT)	1,363,141.2665	
Elevation (SFT)*	188.376	

Convergence Angle	0	5	38.0785891
Scale Factor	0.999918725		
Elevation Adjust. Factor	0.9999909895		
Combined Adjust. Factor	0.9999097152		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST END OF RCP	284	11.00	36.1
MK # 2				
MK # 3				

AZ Mark Station	400007A
Geodetic Azimuth	122 07 09.42731
Grid Azimuth	122 01 31.35294

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Elevations based on 3 wire from NGS point TARRY
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400007A	Date Monumented 4/19/1999	Monumented By AHTD	County LINCOLN	Route 425	Job Number: R20113
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 556,035.7030		Latitude 34 4 24.1918896
Easting (M) 415,857.0810		Longitude 91 49 41.5069968
Elevation (M)* 58.051		Ellipsoid Height (M):
Northing (SFT) 1,824,260.4689		Geoid Height (M): -25.728
Easting (SFT) 1,364,357.7732		
Elevation (SFT)* 190.456		

Convergence Angle 0 5 46.1647738	
Scale Factor 0.999918700	
Elevation Adjust. Factor 0.9999908900	
Combined Adjust. Factor 0.9999095907	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 199, LOCATED ABOUT 8.05 KM (5.00 MI) NORTH OF YORKTOWN, GO SOUTHEAST ON U.S. HIGHWAY 425 FOR 0.44 KM (0.27 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.75 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400007A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN POST	350	2.48	8.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 350013	Elevations based on 3 wire from NGS point TARRY
Ref Mon # 2 93400002	
Ref Mon # 3 DIST2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400008	Date Monumented 4/19/1999	Monumented By AHTD	County LINCOLN	Route 425	Job Number: R20113
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	550,319.6881	
Easting (M)	417,131.9240	
Elevation (M)*	56.506	
Northing (SFT)	1,805,507.1767	
Easting (SFT)	1,368,540.3207	
Elevation (SFT)*	185.387	

Convergence Angle	0	6	13.7688010
Scale Factor	0.999918494		
Elevation Adjust. Factor	0.9999911324		
Combined Adjust. Factor	0.9999096272		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	155	3.80	12.5
MK # 2	NORTHWEST CORNER OF A BRICK HOUSE	153	33.15	108.8
MK # 3	NBC IN COMBINATION POLE	214	60.59	198.8

Area Reference Monuments (used for Processing) Ref Mon # 1 350013 Ref Mon # 2 93400002 Ref Mon # 3 DIST2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevations based on 3 wire from NGS point TARRY</td> </tr> </table>	Comments	Elevations based on 3 wire from NGS point TARRY
Comments			
Elevations based on 3 wire from NGS point TARRY			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 212 IN, STAR CITY, GO NORTH ON U.S. HIGHWAY 425 FOR 9.66 KM (6.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.60 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425, 14.50 METERS SOUTH OF THE CENTER OF A PAVED FIELD ENTRANCE AND 0.90 METERS WEST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "400008 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	93400003A
Geodetic Azimuth	179 08 15.36885
Grid Azimuth	179 02 01.60002

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400009	Date Monumented 1/15/2002	Monumented By AHTD	County LINCOLN	Route N/A	Job Number: 001930
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	525,282.4791	
Easting (M)	409,312.1480	
Elevation (M)*		
Northing (SFT)	1,723,364.2668	
Easting (SFT)	1,342,884.9389	
Elevation (SFT)*		

Convergence Angle	0	3	22.6275598
Scale Factor	0.999927065		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED ON THE SOUTH SIDE OF STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 15.45 KM (9.60 MI) TO CORNERSVILLE AND LINCOLN COUNTY ROAD 20 ON THE LEFT. TURN LEFT (SOUTH) ON LINCOLN COUNTY ROAD 20, AND GO SOUTHEAST FOR 6.808 KM (4.23 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.50 METERS EAST OF COUNTY ROAD 20 AND 0.64 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400009 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				AZ Mark Station	400009A
MK # 2					Geodetic Azimuth	148 44 49
MK # 3					Grid Azimuth	148 41 26

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400009A	Date Monumented 1/15/2002	Monumented By AHTD	County LINCOLN	Route N/A	Job Number: 001930
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	524,842.3322	
Easting (M)	409,579.8610	
Elevation (M)*		
Northing (SFT)	1,721,920.2182	
Easting (SFT)	1,343,763.2606	
Elevation (SFT)*		

Convergence Angle	0	3	28.4431750
Scale Factor	0.999927354		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED ON THE SOUTH SIDE OF STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 15.45 KM (9.60 MI) TO CORNERSVILLE AND LINCOLN COUNTY ROAD 20 ON THE LEFT. TURN LEFT (SOUTH) ON LINCOLN COUNTY ROAD 20, AND GO SOUTHEAST FOR 7.323 KM (4.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.10 METERS NORTHEAST OF COUNTY ROAD 20 AND 0.95 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400009A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 K 124</p> <p>Ref Mon # 2 AHTD LITTLE ROCK</p> <p>Ref Mon # 3 AHTD MON 1</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400010	Date Monumented 1/15/2002	Monumented By AHTD	County LINCOLN	Route N/A	Job Number: 001930
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	528,271.1271	
Easting (M)	409,663.8480	
Elevation (M)*		
Northing (SFT)	1,733,169.5228	
Easting (SFT)	1,344,038.8080	
Elevation (SFT)*		

Convergence Angle	0	3	30.3466846
Scale Factor	0.999925231		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WOODEN CORNER POST	206	14.20	46.6	400010A
MK # 2	TELEPHONE JUNCTION BOX	299	23.10	75.8	297 27 14
MK # 3					297 23 44

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124	
Ref Mon # 2 AHTD LITTLE ROCK	
Ref Mon # 3 AHTD MON 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400010A	Date Monumented 1/15/2002	Monumented By AHTD	County LINCOLN	Route N/A	Job Number: 001930
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	528,405.6251	
Easting (M)	409,404.3270	
Elevation (M)*		
Northing (SFT)	1,733,610.7883	
Easting (SFT)	1,343,187.3628	
Elevation (SFT)*		

Convergence Angle	0	3	24.7007692
Scale Factor	0.999925154		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST	110	21.65	71.0
MK # 2				
MK # 3				

AZ Mark Station	400010
Geodetic Azimuth	117 27 09
Grid Azimuth	117 23 44

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400011	Date Monumented 1/15/2002	Monumented By AHTD	County LINCOLN	Route 11	Job Number: 001930
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	531,838.7661	
Easting (M)	409,382.3580	
Elevation (M)*		
Northing (SFT)	1,744,874.3518	
Easting (SFT)	1,343,115.2862	
Elevation (SFT)*		

Convergence Angle	0	3	24.2965930
Scale Factor	0.999923330		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	159	12.85	42.2
MK # 2	CHAIN LINK FENCE CORNER POST CEMETE	338	19.15	62.8
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>K 124</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD LITTLE ROCK</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD MON 1</td> </tr> </table>	Ref Mon # 1	K 124	Ref Mon # 2	AHTD LITTLE ROCK	Ref Mon # 3	AHTD MON 1	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	K 124						
Ref Mon # 2	AHTD LITTLE ROCK						
Ref Mon # 3	AHTD MON 1						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 51 19.0907964
Longitude	91 53 54.9830400
Ellipsoid Height (M):	58.010
Geoid Height (M):	-25.706

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED IN STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 11.345 KM (7.05 MI) TO THE STATION ON THE LEFT. THE STATION IS LOCATED AT THE NEWTON CHAPEL CEMETERY, 16.30 METERS WEST OF THE CENTER OF THE PAVED ENTRANCE TO THE CEMETERY, 12.80 METERS EAST OF THE CENTER OF STATE HIGHWAY 11, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400011 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	400011A
Geodetic Azimuth	331 22 36
Grid Azimuth	331 19 11

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400011A	Date Monumented 1/15/2002	Monumented By AHTD	County LINCOLN	Route 11	Job Number: 001930
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	532,032.6851	
Easting (M)	409,276.2780	
Elevation (M)*		
Northing (SFT)	1,745,510.5677	
Easting (SFT)	1,342,767.2554	
Elevation (SFT)*		

Convergence Angle	0	3	21.9908859
Scale Factor	0.999923235		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END CORRIGATED METAL PIPE	306	10.86	35.6
MK # 2	SOUTH END CORRIGATED METAL PIPE	242	3.60	11.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124	
Ref Mon # 2 AHTD LITTLE ROCK	
Ref Mon # 3 AHTD MON 1	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 51 25.3884816
Longitude	91 53 59.1026496
Ellipsoid Height (M):	56.419
Geoid Height (M):	-25.707

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED IN STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 11.152 KM (6.93 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.80 METERS EAST OF THE CENTER OF STATE HIGHWAY 11, 7.60 METERS SOUTHEAST OF A GRAVEL DRIVE, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400011A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400012	Date Monumented 1/15/2002	Monumented By AHTD	County LINCOLN	Route 11	Job Number: 001930
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	536,163.4761	
Easting (M)	410,189.2670	
Elevation (M)*		
Northing (SFT)	1,759,063.0045	
Easting (SFT)	1,345,762.6201	
Elevation (SFT)*		

Convergence Angle	0	3	41.9679957
Scale Factor	0.999921445		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER BLUE METAL BUILDING	101	14.50	47.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124	
Ref Mon # 2 AHTD LITTLE ROCK	
Ref Mon # 3 AHTD MON 1	

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 53 39.4364256
Longitude	91 53 23.4095244
Ellipsoid Height (M):	62.872
Geoid Height (M):	-25.726

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED IN STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 6.324 KM (3.93 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.20 METERS WEST OF THE CENTER OF A GRAVEL DRIVE, 9.60 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 11, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400012 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	400012A
Geodetic Azimuth	43 54 14
Grid Azimuth	43 50 32

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400012A	Date Monumented 1/15/2002	Monumented By AHTD	County LINCOLN	Route 11	Job Number: 001930,020355
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	537,025.6111	
Easting (M)	411,017.2450	
Elevation (M)*		
Northing (SFT)	1,761,891.5258	
Easting (SFT)	1,348,479.0780	
Elevation (SFT)*		

Convergence Angle	0	4	0.0269134
Scale Factor	0.999921124		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	45	9.45	31.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124	
Ref Mon # 2 AHTD LITTLE ROCK	
Ref Mon # 3 AHTD MON 1	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 54 7.3896768
Longitude	91 52 51.1436352
Ellipsoid Height (M):	69.484
Geoid Height (M):	-25.729

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED IN STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 5.149 KM (3.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.25 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 11 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400012A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	400012
Geodetic Azimuth	223 54 32
Grid Azimuth	223 50 32

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400013	Date Monumented 1/15/2002	Monumented By AHTD	County LINCOLN	Route 114	Job Number: 001930
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	540,067.1721	
Easting (M)	409,686.4710	
Elevation (M)*		
Northing (SFT)	1,771,870.3805	
Easting (SFT)	1,344,113.0303	
Elevation (SFT)*		

Convergence Angle	0	3	31.1018822
Scale Factor	0.999920138		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTHEAST END CONCRETE HEADWALL	235	10.56	34.6	
MK # 2	POWER POLE	151	11.50	37.7	
MK # 3					

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>K 124</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD LITTLE ROCK</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD MON 1</td> </tr> </table>	Ref Mon # 1	K 124	Ref Mon # 2	AHTD LITTLE ROCK	Ref Mon # 3	AHTD MON 1	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	K 124						
Ref Mon # 2	AHTD LITTLE ROCK						
Ref Mon # 3	AHTD MON 1						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 55 46.1602920
Longitude	91 53 42.8240220
Ellipsoid Height (M):	55.157
Geoid Height (M):	-25.735

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 114 AND STATE HIGHWAY 212, LOCATED ON THE WEST SIDE OF STAR CITY, GO WEST ON STATE HIGHWAY 114 FOR 4.522 KM (2.81 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.15 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 114 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400013 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	400013A
Geodetic Azimuth	241 54 52
Grid Azimuth	241 51 21

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400013A	Date Monumented 1/15/2002	Monumented By AHTD	County LINCOLN	Route 114	Job Number: 001930
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	539,870.0301	
Easting (M)	409,317.9430	
Elevation (M)*		
Northing (SFT)	1,771,223.5904	
Easting (SFT)	1,342,903.9513	
Elevation (SFT)*		

Convergence Angle	0	3	23.0661523
Scale Factor	0.999920195		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	240	19.40	63.6
MK # 2				
MK # 3				

AZ Mark Station	400013
Geodetic Azimuth	61 54 44
Grid Azimuth	61 51 21

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400014	Date Monumented 1/16/2002	Monumented By AHTD	County LINCOLN	Route 212	Job Number: 001930
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	543,390.3581	
Easting (M)	407,795.4910	
Elevation (M)*		
Northing (SFT)	1,782,773.1999	
Easting (SFT)	1,337,909.0401	
Elevation (SFT)*		

Convergence Angle	0	2	49.9505481
Scale Factor	0.999919321		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 114 AND STATE HIGHWAY 212, LOCATED ON THE WEST SIDE OF STAR CITY, GO WEST ON STATE HIGHWAY 212 FOR 6.566 KM (4.08 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.70 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 11.95 METERS NORTH OF THE CENTER OF STATE HIGHWAY 212, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400014 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				AZ Mark Station	400014A
MK # 2					Geodetic Azimuth	266 23 56
MK # 3					Grid Azimuth	266 21 06

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400014A	Date Monumented 1/16/2002	Monumented By AHTD	County LINCOLN	Route 212	Job Number: 001930,020355
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas South</td> <td>302</td> </tr> <tr> <td>Horizontal Datum</td> <td>NAD 83 (1997)</td> </tr> <tr> <td>Northing (M)</td> <td>543,347.8750</td> </tr> <tr> <td>Easting (M)</td> <td>407,129.2140</td> </tr> <tr> <td>Elevation (M)*</td> <td></td> </tr> <tr> <td>Northing (SFT)</td> <td>1,782,633.8199</td> </tr> <tr> <td>Easting (SFT)</td> <td>1,335,723.0963</td> </tr> <tr> <td>Elevation (SFT)*</td> <td></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Convergence Angle</td> <td>0</td> <td>2</td> <td>35.4242603</td> </tr> <tr> <td>Scale Factor</td> <td colspan="3">0.999919329</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td colspan="3"></td> </tr> <tr> <td>Combined Adjust. Factor</td> <td colspan="3"></td> </tr> </table>	Zone	Zone Code	Arkansas South	302	Horizontal Datum	NAD 83 (1997)	Northing (M)	543,347.8750	Easting (M)	407,129.2140	Elevation (M)*		Northing (SFT)	1,782,633.8199	Easting (SFT)	1,335,723.0963	Elevation (SFT)*		Convergence Angle	0	2	35.4242603	Scale Factor	0.999919329			Elevation Adjust. Factor				Combined Adjust. Factor				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Vertical Determined By:</td> <td>NONE</td> </tr> <tr> <td>Elevation Datum:</td> <td>NONE</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td>33 57 32.7191400</td> </tr> <tr> <td>Longitude</td> <td>91 55 22.3032936</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>52.638</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-25.731</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">Location Description</p> <p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 114 AND STATE HIGHWAY 212, LOCATED ON THE WEST SIDE OF STAR CITY, GO WEST ON STATE HIGHWAY 212 FOR 7.242 KM (4.50 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.65 METERS WEST OF THE CENTER OF A GRAVEL DRIVE, 15.24 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 212, AND 0.54 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400014A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p> </div>	Vertical Determined By:	NONE	Elevation Datum:	NONE	Geoid Datum:		Latitude	33 57 32.7191400	Longitude	91 55 22.3032936	Ellipsoid Height (M):	52.638	Geoid Height (M):	-25.731
Zone	Zone Code																																																
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SUPERCEDED CONTROL												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)	
Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
Grid Northing (Meters)												
Grid Easting (Meters)												

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	295		5.90	19.4
MK # 2	METAL CORNER POST	95		7.43	24.4
MK # 3	CORRIGATED METAL PIPE	55		8.57	28.1

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>K 124</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD LITTLE ROCK</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD MON 1</td> </tr> </table>	Ref Mon # 1	K 124	Ref Mon # 2	AHTD LITTLE ROCK	Ref Mon # 3	AHTD MON 1	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	K 124						
Ref Mon # 2	AHTD LITTLE ROCK						
Ref Mon # 3	AHTD MON 1						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400015	Date Monumented 1/16/2002	Monumented By AHTD	County LINCOLN	Route N/A	Job Number: 001930
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	549,353.9370	
Easting (M)	404,897.4300	
Elevation (M)*		
Northing (SFT)	1,802,338.7083	
Easting (SFT)	1,328,400.9849	
Elevation (SFT)*		

Convergence Angle	0	1	46.8368850
Scale Factor	0.999918537		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER POST	253	4.20	13.8
MK # 2	WOODEN CORNER POST	235	7.00	23.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 K 124 Ref Mon # 2 AHTD LITTLE ROCK Ref Mon # 3 AHTD MON 1	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 0 47.7089100
Longitude	91 56 49.1144136
Ellipsoid Height (M):	51.570
Geoid Height (M):	-25.723

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 114 AND STATE HIGHWAY 212, LOCATED ON THE WEST SIDE OF STAR CITY, GO WEST ON STATE HIGHWAY 212 FOR 3.363 KM (2.09 MI) TO A PAVED ROAD TO THE RIGHT (LINCOLN COUNTY ROAD 12), TURN RIGHT (NORTH) ON COUNTY ROAD 12 AND GO NORTH 7.966 KM (4.95 MI) TO LINCOLN COUNTY ROAD 72 (A PAVED ROAD ON THE LEFT), TURN LEFT, (WEST) ON COUNTY ROAD 72 AND GO 1.77 KM (1.10 MI) TO THE STATION ON THE LEFT. CONTINUE ON WEST ON COUNTY ROAD FOR 1.65 MI AND IT INTERSECTS STATE HIGHWAY 54 IN CLEVELAND COUNTY. THE STATION IS 11.20 METERS EAST OF A GRAVEL ROAD, 5.85 METERS SOUTH OF THE CENTER OF COUNTY ROAD 72, AND 0.69 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400015 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	400015A
Geodetic Azimuth	271 46 29
Grid Azimuth	271 44 43

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400015A	Date Monumented 1/16/2002	Monumented By AHTD	County LINCOLN	Route N/A	Job Number: 001930
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	549,364.0960	
Easting (M)	404,563.9880	
Elevation (M)*		
Northing (SFT)	1,802,372.0383	
Easting (SFT)	1,327,307.0173	
Elevation (SFT)*		

Convergence Angle	0	1	39.5629937
Scale Factor	0.999918537		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 114 AND STATE HIGHWAY 212, LOCATED ON THE WEST SIDE OF STAR CITY, GO WEST ON STATE HIGHWAY 212 FOR 3.363 KM (2.09 MI) TO A PAVED ROAD TO THE RIGHT (LINCOLN COUNTY ROAD 12), TURN RIGHT (NORTH) ON COUNTY ROAD 12 AND GO NORTH FOR 7.966 KM (4.95 MI) TO LINCOLN COUNTY ROAD 72, (A PAVED ROAD TO THE LEFT), TURN LEFT (WEST) ON COUNTY ROAD 72 AND GO 2.09 KM (1.30 MI) TO THE STATION ON THE RIGHT. CONTINUE ON WEST ON COUNTY ROAD FOR 1.45 MI AND IT INTERSECTS WITH STATE HIGHWAY 54 IN CLEVELAND COUNTY. THE STATION IS 7.70 METERS NORTH OF THE CENTER OF COUNTY ROAD 72 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400015A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	296	1.65	5.4
MK # 2	END OF METAL PIPE UNDER DRIVEWAY	255	11.20	36.7
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124	
Ref Mon # 2 AHTD LITTLE ROCK	
Ref Mon # 3 AHTD MON 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400016	Date Monumented 1/16/2002	Monumented By AHTD	County LINCOLN	Route N/A	Job Number: 001930
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	554,048.7800	
Easting (M)	404,349.2910	
Elevation (M)*		
Northing (SFT)	1,817,741.7057	
Easting (SFT)	1,326,602.6322	
Elevation (SFT)*		

Convergence Angle	0	1	34.9264316
Scale Factor	0.999918538		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END GATE POST	165	7.70	25.3
MK # 2	WOODEN POST FOR PIPE LINE MARKER	323	5.75	18.9
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>K 124</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD LITTLE ROCK</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD MON 1</td> </tr> </table>	Ref Mon # 1	K 124	Ref Mon # 2	AHTD LITTLE ROCK	Ref Mon # 3	AHTD MON 1	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	K 124						
Ref Mon # 2	AHTD LITTLE ROCK						
Ref Mon # 3	AHTD MON 1						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 3 20.1008808
Longitude	91 57 10.3948344
Ellipsoid Height (M):	48.597
Geoid Height (M):	-25.727

Location Description
TO REACH THE STATION FROM THE JUNCTION OF I 530 AND U.S. HIGHWAY 63 LOCATED ON THE SOUTH SIDE OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 63 FOR 8.288 KM (5.15 MI) TO PINEBERGEN ROAD ON THE LEFT. TURN LEFT (EAST) ON PINEBERGEN ROAD AND GO EAST ON PINEBERGEN ROAD FOR 0.322 KM (0.20 MI) TO OLD STAR CITY ROAD ON THE RIGHT. TURN RIGHT (SOUTH) ON OLD STAR CITY ROAD AND GO SOUTH ON OLD STAR CITY ROAD FOR 6.148 KM (3.82 MI) TO THE STATION ON THE RIGHT, SET IN A GAS PIPELINE RIGHT OF WAY. THE STATION IS 9.60 METERS SOUTH OF THE CENTER OF OLD STAR CITY ROAD, 8.00 METERS WEST OF THE CENTER OF THE ENTRANCE TO MISSISSIPPI RIVER TRANSMISSION CORP. PIPE LINE RIGHT OF WAY, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400016 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	400016A
Geodetic Azimuth	2 06 18
Grid Azimuth	2 04 43

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400016A	Date Monumented 1/16/2002	Monumented By AHTD	County LINCOLN	Route N/A	Job Number: 001930
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	554,659.8190	
Easting (M)	404,371.4680	
Elevation (M)*		
Northing (SFT)	1,819,746.4228	
Easting (SFT)	1,326,675.3913	
Elevation (SFT)*		

Convergence Angle	0	1	35.4166293
Scale Factor	0.999918577		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF I 530 AND U.S. HIGHWAY 63 LOCATED ON THE SOUTH SIDE OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 63 FOR 8.288 KM (5.15 MI) TO PINEBERGEN ROAD ON THE LEFT. TURN LEFT (EAST) ON PINEBERGEN ROAD AND GO EAST ON PINEBERGEN ROAD FOR 0.322 KM (0.20 MI) TO OLD STAR CITY ROAD ON THE RIGHT. TURN RIGHT (SOUTH) ON OLD STAR CITY ROAD AND GO SOUTH ON OLD STAR CITY ROAD FOR 6.148 KM (3.82 MI) TO THE GAS PIPE LINE RIGHT OF WAY AND POINT NUMBER 400016 ON THE RIGHT. STATION 400016A IS ON THE LEFT THROUGH A LOCKED GATE ON PIPE LINE RIGHT OF WAY. TURN LEFT (NORTH) AND GO NORTH ABOUT 0.30 MI TO A METAL TOWER DEER STAND AND THE STATION. THE STATION IS 4.50 METERS WEST OF THE CENTER OF A DIRT TRACK ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400016A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. STATION IS ON THE RIGHT OF WAY OF THE MISSISSIPPE RIVER TRANSMISSION CORP. PIPE LINE.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER METAL DEER TOWE	57	10.00	32.8
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 K 124</p> <p>Ref Mon # 2 AHTD LITTLE ROCK</p> <p>Ref Mon # 3 AHTD MON 1</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400017	Date Monumented 1/19/2002	Monumented By AHTD	County LINCOLN	Route 425	Job Number: 001930
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	542,897.0291	
Easting (M)	414,473.3850	
Elevation (M)*		
Northing (SFT)	1,781,154.6696	
Easting (SFT)	1,359,818.0973	
Elevation (SFT)*		

Convergence Angle	0	5	15.5195856
Scale Factor	0.999919426		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF BRIDGE	31	5.35	17.6
MK # 2	SOUTH END CONCRETE BRIDGE RAIL	140	2.95	9.7
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 K 124	
Ref Mon # 2 AHTD LITTLE ROCK	
Ref Mon # 3 AHTD MON 1	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 57 17.8134732
Longitude	91 50 36.2607900
Ellipsoid Height (M):	45.054
Geoid Height (M):	-25.750

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 212 LOCATED IN STAR CITY, GO NORTH ON U.S. HIGHWAY 425 FOR 1.368 KM (0.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.90 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425 AND 1.60 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400017 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400018	Date Monumented 10/26/2004	Monumented By AHTD	County LINCOLN	Route 54	Job Number: 020419
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	537,074.9481	
Easting (M)	439,148.9440	
Elevation (M)*		
Northing (SFT)	1,762,053.3922	
Easting (SFT)	1,440,774.4938	
Elevation (SFT)*		

Convergence Angle	0	14	12.9173917
Scale Factor	0.999921133		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE RISER	170	23.45	76.9	
MK # 2	POWER POLE	89	16.85	55.3	
MK # 3					

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ALMYPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>CSAL</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD LROC</td> </tr> </table>	Ref Mon # 1	ALMYPORT	Ref Mon # 2	CSAL	Ref Mon # 3	AHTD LROC	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ALMYPORT						
Ref Mon # 2	CSAL						
Ref Mon # 3	AHTD LROC						

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 54 AND STATE HIGHWAY 83, WEST OF DUMAS, GO WEST ON HIGHWAY 54 1.2 MILES TO THE STATION ON THE RIGHT, NORTH 11.50 METERS OF THE CENTERLINE OF THE ROAD AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400018 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400018A	Date Monumented 10/26/2004	Monumented By AHTD	County LINCOLN	Route 54	Job Number: 020419
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	537,109.8041	
Easting (M)	438,636.9920	
Elevation (M)*		
Northing (SFT)	1,762,167.7490	
Easting (SFT)	1,439,094.8646	
Elevation (SFT)*		

Convergence Angle	0	14	1.7669878
Scale Factor	0.999921120		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHOE RISER	270	38.85	127.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMYPORT	
Ref Mon # 2 CSAL	
Ref Mon # 3 AHTD LROC	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 54 7.7715288
Longitude	91 34 56.0139456
Ellipsoid Height (M):	24.350
Geoid Height (M):	-25.863

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 54 AND STATE HIGHWAY 83, WEST OF DUMAS, GO WEST ON HIGHWAY 54 1.5 MILES TO THE STATION ON THE LEFT, SOUTH 8.70 METERS OF THE CENTERLINE OF THE ROAD AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400018A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400019	Date Monumented 3/17/2010	Monumented By AHTD	County LINCOLN	Route 11	Job Number: 020506
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	543,003.0421	
Easting (M)	416,632.2360	
Elevation (M)*	66.476	
Northing (SFT)	1,781,502.4806	
Easting (SFT)	1,366,900.9276	
Elevation (SFT)*	218.098	

Convergence Angle	0	6	2.5864793
Scale Factor	0.999919404		
Elevation Adjust. Factor	0.9999895678		
Combined Adjust. Factor	0.9999089726		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE	79	10.36	34.0	
MK # 2	FENCE CORNER	211	16.92	55.5	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 C SAL Ref Mon # 2 MSB6 Ref Mon # 3 ARLR	DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 ON 3/2010 FROM P 77.

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 11, 14, AND 425, IN STAR CITY, GO NORTH ON STATE HIGHWAY 11 FOR 1.70 MILES TO THE STATION MARK ON THE RIGHT, 72 FEET NORTHEAST OF THE CENTERLINE OF A GRAVEL DRIVE, SOUTHEAST 17.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 48.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "400019 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400019A	Date Monumented 3/17/2010	Monumented By AHTD	County LINCOLN	Route 11	Job Number: 0020506
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	542,702.9251	
Easting (M)	416,208.3570	
Elevation (M)*	64.185	
Northing (SFT)	1,780,517.8468	
Easting (SFT)	1,365,510.2513	
Elevation (SFT)*	210.579	

Convergence Angle	0	5	53.3346324
Scale Factor	0.999919470		
Elevation Adjust. Factor	0.9999899274		
Combined Adjust. Factor	0.9999093983		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHAINLINK FENCE CORNER	33	27.74	91.0
MK # 2	COMBINATION POLE	142	5.61	18.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 CSAL Ref Mon # 3 MSB6	DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 ON 3/2010 FROM P 77.

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 57 11.4219540
Longitude	91 49 28.6966020
Ellipsoid Height (M):	38.426
Geoid Height (M):	-25.758

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 11, 14, AND 425, IN STAR CITY, GO NORTH ON STATE HIGHWAY 11 FOR 1.40 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST 19.3 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 18.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "400019A 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400020	Date Monumented 2/12/2012	Monumented By AHTD	County Lincoln	Route 212	Job Number: 020542
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	546,982.7532	
Easting (M)	442,970.4190	
Elevation (M)*	50.179	0.0011
Northing (SFT)	1,794,559.2495	
Easting (SFT)	1,453,312.1163	
Elevation (SFT)*	164.629	

Convergence Angle	0	15	37.1534825
Scale Factor	0.999918755		
Elevation Adjust. Factor	0.9999921254		
Combined Adjust. Factor	0.9999108810		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
Lat. 33.5928 Lon. 91.3206 Starting at the junction of highway 212 and 65. Go east on 212 for 1.4 miles to Duke lane. Turn left (north) on Duke lane and go 0.4 miles to the station on the right. The station is a standard 2" alum. cap on a 4 foot rebar. Stamped 400020-2012			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	east of duke lane		265	8.80	28.9
MK # 2	north east of a pp		230	3.00	9.8
MK # 3	south west of electric meter		40	4.60	15.1

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px; vertical-align: top;"> Elevation BASED ON NGS POINT 12 AR </td> </tr> </table>	Comments	Elevation BASED ON NGS POINT 12 AR
Comments			
Elevation BASED ON NGS POINT 12 AR			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400020A	Date Monumented 2/12/2012	Monumented By AHTD	County Lincoln	Route 212	Job Number: 020542
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	546,183.1319		
Easting (M)	442,958.0180		
Elevation (M)*	48.997	0.0010	
Northing (SFT)	1,791,935.8252		
Easting (SFT)	1,453,271.4307		
Elevation (SFT)*	160.749		

Convergence Angle	0	15	36.8038251
Scale Factor	0.999918858		
Elevation Adjust. Factor	0.9999923109		
Combined Adjust. Factor	0.9999111695		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description	Azimuth	Distance		AZ Mark Station	Geodetic Azimuth	Grid Azimuth
		Meters	Feet			
MK # 1 south west of double cmp's	57	8.00	26.2			
MK # 2 west of pp with guy	85	2.40	7.9			
MK # 3 east of field entrance	270	2.75	9.0			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Elevation BASED ON NGS POINT 12 AR

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400021	Date Monumented 9/12/2016	Monumented By AHTD	County LINCOLN	Route 11	Job Number: 020581
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	562,408.3974	0.0040			
Easting (M)	428,841.9434	0.0040			
Elevation (M)*					
Northing (SFT)	1,845,168.2171				
Easting (SFT)	1,406,958.9426				
Elevation (SFT)*					

Convergence Angle	0	10	30.0517459
Scale Factor	0.999919872		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	109	51.00	167.3
MK # 2	NORTH END 24" CMP	347	47.00	154.2
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARPB, IULM</td> </tr> </table>	Ref Mon # 1	ARCM	Ref Mon # 2	ARHP	Ref Mon # 3	ARPB, IULM	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARCM							
Ref Mon # 2	ARHP							
Ref Mon # 3	ARPB, IULM							
Comments								

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 12B

Latitude 34 7 50.0339028

Longitude 91 41 14.2858140

Ellipsoid Height (M): 29.825 0.0090

Geoid Height (M): -26.051 0.0090

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 11 AND STATE HIGHWAY 65, NORTH OF GRADY, GO NORTH ON STATE HIGHWAY 11 FOR 3.5 MILES TO THE MARK ON THE RIGHT, EAST 69' OF THE CENTER LINE OF THE HIGHWAY AND SOUTH 18.9' OF THE CENTER LINE OF A DIRT FARM ROAD. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "400021 2016" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400021A	Date Monumented 9/12/2016	Monumented By AHTD	County LINCOLN	Route 11	Job Number: 020581
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	562,952.8973 0.0040
Easting (M)	428,851.4972 0.0040
Elevation (M)*	

Northing (SFT)	1,846,954.6306	
Easting (SFT)	1,406,990.2871	
Elevation (SFT)*		

Convergence Angle	0	10	30.2967944
Scale Factor	0.999920019		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 11 AND STATE HIGHWAY 65, NORTH OF GRADY, GO NORTH ON STATE HIGHWAY 11 FOR 3.8 MILES TO THE MARK ON THE RIGHT, 31.9 FEET EAST OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "400021A 2016" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description	Azimuth	Distance			
		Meters	Feet		
MK # 1 COMBINATION POLE	13	30.70	100.7	AZ Mark Station	400021
MK # 2				Geodetic Azimuth	
MK # 3				Grid Azimuth	

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM</p> <p>Ref Mon # 2 ARHP</p> <p>Ref Mon # 3 ARPB, IULM</p>	<div style="border: 1px solid black; height: 100px; margin: 5px 0;"></div> <p style="text-align: center; margin: 0;">Comments</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400022	Date Monumented 9/13/2016	Monumented By AHTD	County LINCOLN	Route 11	Job Number: 020583
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	536,755.1618	0.0020	
Easting (M)	410,759.1288	0.0020	
Elevation (M)*			
Northing (SFT)	1,761,004.2267		
Easting (SFT)	1,347,632.2417		
Elevation (SFT)*			

Convergence Angle	0	3	54.3967806
Scale Factor	0.999921223		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	SW COR OF MTL BU	84	54.40	178.5	400022A
MK # 2	PP & TRANS	227	113.50	372.4	
MK # 3	PP & TRANS & GY	56	135.50	444.6	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	
Ref Mon # 2 ARHP, ARLR	
Ref Mon # 3 ARPB, IULM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400022A	Date Monumented 9/13/2016	Monumented By AHTD	County LINCOLN	Route 11	Job Number: 020583
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	536,158.8644	0.0030			
Easting (M)	410,186.8579	0.0020			
Elevation (M)*					
Northing (SFT)	1,759,047.8743				
Easting (SFT)	1,345,754.7163				
Elevation (SFT)*					

Convergence Angle	0	3	41.9154051
Scale Factor	0.999921446		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	PP & GY	212	46.00	150.9		
MK # 2	FE COR	166	50.30	165.0		
MK # 3	FE COR & R/W	229	55.30	181.4		

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM Ref Mon # 2 ARHP, ARLR Ref Mon # 3 ARPB, IULM	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	33 53 39.2868240
Longitude	91 53 23.5034880
Ellipsoid Height (M):	63.310 0.0110
Geoid Height (M):	-25.826 0.0110

Location Description
FROM JCT OF US-425 & SR-11S IN STAR CITY, GO S ON SR-11 3.9 MI TO STA ON L, JUST PAST A MTL BUILDING. 25.2' SE OF SR-11 C/L. STA IS A 2 1/2" ALUM CAP STAMPED "400022A 2016" SET BELOW SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400023	Date Monumented 9/26/2016	Monumented By AHTD	County LINCOLN	Route 54	Job Number: 020614
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	534,543.9843	0.0020			
Easting (M)	436,719.2001	0.0020			
Elevation (M)*					
Northing (SFT)	1,753,749.7218				
Easting (SFT)	1,432,802.9090				
Elevation (SFT)*					

Convergence Angle	0	13	19.7685914
Scale Factor	0.999922125		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	255	12.60	41.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	STATIC GPS DERIVED ELEVATION BASED ON CONSTRAINTS ON CORS SITES ARCM, ARLR & ARWY IN FINAL NETWORK ADJUSTMENT.
Ref Mon # 2 ARLR	
Ref Mon # 3 ARWY, MSGN	

AZ Mark Station	400023A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 400023A	Date Monumented 9/26/2016	Monumented By AHTD	County LINCOLN	Route 54	Job Number: 020614
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	534,225.9074	0.0020			
Easting (M)	436,258.6885	0.0020			
Elevation (M)*					
Northing (SFT)	1,752,706.1645				
Easting (SFT)	1,431,292.0472				
Elevation (SFT)*					

Convergence Angle	0	13	9.7119162
Scale Factor	0.999922260		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	150	13.00	42.7
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARLR Ref Mon # 3 ARWY, MSGN	STATIC GPS DERIVED ELEVATION BASED ON CONSTRAINTS ON CORS SITES ARCM, ARLR & ARWY IN FINAL NETWORK ADJUSTMENT.

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	33 52 34.4713044
Longitude	91 36 29.0208024
Ellipsoid Height (M):	25.800 0.0070
Geoid Height (M):	-25.895 0.0070

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 54 AND STATE HIGHWAY 293 SOUTH, WEST OF DUMAS, GO WEST ON HIGHWAY 54 0.3 MILES TO THE MARK ON THE LEFT, 24.5 FEET SOUTHEAST OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "400023A 2016" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 40004A	Date Monumented 4/15/1993	Monumented By AHTD	County LINCOLN	Route 425	Job Number: R20115
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 525,430.4491		Geoid Datum:
Easting (M) 414,830.5870		Latitude 33 47 50.8608492
Elevation (M)* 81.372		Longitude 91 50 23.4121704
Northing (SFT) 1,723,849.7318		Ellipsoid Height (M): 54.955
Easting (SFT) 1,360,990.0175		Geoid Height (M): -26.538
Elevation (SFT)* 266.968		

Convergence Angle 0 5 22.7108384	Scale Factor 0.999926973
Elevation Adjust. Factor 0.9999872302	Combined Adjust. Factor 0.9999142042

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
THE STATION IS ON HWY. 425 0.39 MILES NORTH OF THE DREW AND LINCOLN COUNTY LINE, 59.0 FEET EAST OF THE CENTERLINE OF HWY. 425 AND 2.00 FEET WEST OF A WITNESS POST.ELEVATION (NGVD 29) = 81.467 meters				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN 7" PINE	206	46.74	153.4	AZ Mark Station 93400004
MK # 2	NBC IN DOUBLE 6" GUM	237	36.97	121.3	Geodetic Azimuth 171 01 43.04308
MK # 3	NBC IN DOUBLE 24" GUM	254	37.04	121.5	Grid Azimuth 170 56 20.32624

Area Reference Monuments (used for Processing) Ref Mon # 1 CELLPORT Ref Mon # 2 DUMAS Ref Mon # 3 TARRY	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 410001	Date Monumented 1/28/1999	Monumented By AHTD	County LITTLE RIVER	Route 32	Job Number: 30108, 030202
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 512,543.3501		Latitude 33 39 43.4582820
Easting (M) 198,402.9920		Longitude 94 10 25.9352112
Elevation (M)* 102.022		Ellipsoid Height (M): 75.007
Northing (SFT) 1,681,569.3078		Geoid Height (M): -26.990
Easting (SFT) 650,927.1496		
Elevation (SFT)* 334.717		

Convergence Angle -1 13 0.1030535	Location Description
Scale Factor 0.999939457	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 32 WEST, LOCATED IN ASHDOWN, GO WEST ON STATE HIGHWAY 32 FOR 5.09 KM (3.16 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.35 METERS NORTH OF THE CENTER OF STATE HIGHWAY 32 AND 1.11 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "410001 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 0.9999839897	
Combined Adjust. Factor 0.9999234476	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	TELEPHONE JUNCTION BOX	86	12.39	40.6		410001A
MK # 2	CROSS TIE FENCE POST	1	1.33	4.4		271 46 25.01404
MK # 3	NONE					272 59 25.16886

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 X 303 Ref Mon # 2 HOPEPORT Ref Mon # 3 NEW BOSTON MAG STA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 410001A	Date Monumented 1/28/1999	Monumented By AHTD	County LITTLE RIVER	Route 32	Job Number: 30108, 030202
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	512,569.1531	
Easting (M)	197,909.0560	
Elevation (M)*	98.633	
Northing (SFT)	1,681,653.9631	
Easting (SFT)	649,306.6279	
Elevation (SFT)*	323.598	

Convergence Angle	-1	13	10.8435065
Scale Factor	0.999939441		
Elevation Adjust. Factor	0.9999845215		
Combined Adjust. Factor	0.9999239634		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	177	22.77	74.7
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 X 303	
Ref Mon # 2 HOPEPORT	
Ref Mon # 3 NEW BOSTON MAG STA	

Vertical Determined By: LEVEL - Unkown Quality	
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 39 43.9547796
Longitude	94 10 45.1251912
Ellipsoid Height (M):	71.626
Geoid Height (M):	-26.990

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 32 WEST, LOCATED IN ASHDOWN, GO WEST ON STATE HIGHWAY 32 FOR 5.58 KM (3.47 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.77 METERS NORTH OF THE CENTER OF STATE HIGHWAY 32 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "410001A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 410002	Date Monumented 1/28/1998	Monumented By AHTD	County LITTLE RIVER	Route 71	Job Number: 30108, 030202
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	511,205.0382	
Easting (M)	204,427.3500	
Elevation (M)*	99.270	
Northing (SFT)	1,677,178.5295	
Easting (SFT)	670,692.0641	
Elevation (SFT)*	325.688	

Convergence Angle	-1	10	48.6504214
Scale Factor	0.999940706		
Elevation Adjust. Factor	0.9999844215		
Combined Adjust. Factor	0.9999251285		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST END OF CMP	143	29.36	96.3
MK # 2	TELEPHONE JUNCTION BOX	290	1.75	5.7
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 X 303 Ref Mon # 2 HOPEPORT Ref Mon # 3 NEW BOSTON MAG STA	

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 39 4.1175072

Longitude 94 6 31.0686408

Ellipsoid Height (M): 72.288

Geoid Height (M): -26.982

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 32 WEST, LOCATED IN ASHDOWN, GO SOUTH ON U.S. HIGHWAY 71 FOR 2.90 KM (1.80 MI) TO THE STATION ON THE LEFT. THE STATION IS 33.34 METERS NORTHWEST OF THE CENTER OF A CONCRETE DRIVEWAY, 23.14 METERS SOUTHEAST OF THE CENTER OF A GRAVEL ENTRANCE TO LOCAL 1327, 10.89 METERS NORTHEAST OF THE CENTER OF THE NORTHBOUND LANE OF U.S. HIGHWAY 71 AND 1.00 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "410002 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 410002A	Date Monumented 1/28/1999	Monumented By AHTD	County LITTLE RIVER	Route 71	Job Number: 30108, 030202
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	510,843.6941
Easting (M)	204,710.9800
Elevation (M)*	98.936
Northing (SFT)	1,675,993.0197
Easting (SFT)	671,622.6069
Elevation (SFT)*	324.593

Convergence Angle	-1	10	42.3291080
Scale Factor	0.999941079		
Elevation Adjust. Factor	0.9999844740		
Combined Adjust. Factor	0.9999255539		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 32 WEST, LOCATED IN ASHDOWN, GO SOUTH ON U.S. HIGHWAY 71 FOR 3.36 KM (2.09 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.00 METERS NORTHEAST OF THE NORTHBOUND LANE OF U.S. HIGHWAY 71, 6.80 METERS NORTHWEST OF THE CENTER OF A CONCRETE ENTRANCE TO CRYSTAL COMPUTERS AND 1.07 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "410002A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 X 303</p> <p>Ref Mon # 2 HOPEPORT</p> <p>Ref Mon # 3 NEW BOSTON MAG STA</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 410003	Date Monumented 1/28/1999	Monumented By AHTD	County LITTLE RIVER	Route 32	Job Number: 030202
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	514,399.3652				
Easting (M)	205,551.5270				
Elevation (M)*	99.138				
Northing (SFT)	1,687,658.5840				
Easting (SFT)	674,380.3015				
Elevation (SFT)*	325.255				

Convergence Angle	-1	10	25.6569238
Scale Factor	0.999937470		
Elevation Adjust. Factor	0.9999844423		
Combined Adjust. Factor	0.9999219132		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 32 EAST, LOCATED IN ASHDOWN, GO EAST ON STATE HIGHWAY 32 FOR 3.67 KM (2.28 MI) TO A CURVE TO THE RIGHT AND A GRAVEL ROAD ON THE LEFT. GO LEFT, NORTH ON THE GRVEL ROAD FOR ABOUT 30. 0 METERS TO THE STATION ON THE LEFT. THE STATION IS 8.95 METERS WEST OF THE CENTER OF THE GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "410003 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	410003A
Geodetic Azimuth	179 34 51.81680
Grid Azimuth	180 45 17.47329

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 X 303	
Ref Mon # 2 HOPEPORT	
Ref Mon # 3 NEW BOSTON MAG STA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 410003A	Date Monumented 1/28/1999	Monumented By AHTD	County LITTLE RIVER	Route 32	Job Number: 030202
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	513,816.0581	
Easting (M)	205,543.8420	
Elevation (M)*	100.140	
Northing (SFT)	1,685,744.8506	
Easting (SFT)	674,355.0883	
Elevation (SFT)*	328.543	

Convergence Angle	-1	10	25.5642350
Scale Factor	0.999938038		
Elevation Adjust. Factor	0.9999842850		
Combined Adjust. Factor	0.9999223240		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 32 EAST, LOCATED IN ASHDOWN, GO EAST ON STATE HIGHWAY 32 FOR 3.15 KM (1.96 MI) TO THE STATION ON THE RIGHT. THE STATION IS 48.45 METERS NORTH OF THE CENTER OF COUNTY ROAD 700, 18.20 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVEWAY, 10.95 METERS EAST OF THE CENTER OF STATE HIGHWAY 32 AND 1.165 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "410003A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 X 303</p> <p>Ref Mon # 2 HOPEPORT</p> <p>Ref Mon # 3 NEW BOSTON MAG STA</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 410004	Date Monumented 2/11/2003	Monumented By AHTD	County LITTLE RIVER	Route N/A	Job Number: 030208,030295,30108
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Zone Arkansas South	Zone Code 302	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Geoid Datum:		
Northing (M) 503,012.1772		Latitude 33 34 37.9732332
Easting (M) 204,024.9170		Longitude 94 6 40.1273640
Elevation (M)*		Ellipsoid Height (M): 58.423
		Geoid Height (M): -26.941

Northing (SFT) 1,650,299.1180		Location Description
Easting (SFT) 669,371.7485		<p>TO REACH THE STATION FROM THE JUNCTION OF U.S.HIGHWAY 71/59 AND LITTLE RIVER COUNTY 23 SOUTH OF ASHDOWN. GO WEST (LEFT) ON COUNTY ROAD 23 FOR 1.21 MILES AND ROAD TURNING TO DIRT, CONTINUE ON 2.5 MILES TO THE CHESLEY FARMS AND LITTLE RIVER COUNTY ROAD 715 ON THE LEFT. TURN LEFT THROUGH GATE AND CONTINUE FOLLOWING ROAD .34 MILES THROUGH A 2ND GATE, CONTINUE ON .36 MILES THROUGH A 3RD GATE, CONTINUE ON .29 MILES TO A 4TH GATE, GO THROUGH GATE AND CONTINUE 0.15 MILES TO THE STATION ON THE RIGHT. THE STATION IS 8.0 METERS WEST OF THE CENTER OF THE FARM ROAD, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "410004 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Elevation (SFT)*		

Convergence Angle -1 10 53.7205044		
Scale Factor 0.999950103		
Elevation Adjust. Factor		
Combined Adjust. Factor		

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE				410004A	
MK # 2					Geodetic Azimuth	176 14 39
MK # 3					Grid Azimuth	177 25 33

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 X 303, 660015,660017</p> <p>Ref Mon # 2 DQUA CORS,410001</p> <p>Ref Mon # 3 ARTX CORS, HOPE CORS</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 410004A	Date Monumented 2/11/2003	Monumented By AHTD	County LITTLE RIVER	Route N/A	Job Number: 030208,030295,30108
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	502,443.9782
Easting (M)	204,050.4630
Elevation (M)*	

Northing (SFT)	1,648,434.9518
Easting (SFT)	669,455.5607
Elevation (SFT)*	

Convergence Angle	-1	10	52.9119204
Scale Factor	0.999950814		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S.HIGHWAY 71/59 AND LITTLE RIVER COUNTY 23 SOUTH OF ASHDOWN. GO WEST (LEFT) ON COUNTY ROAD 23 FOR 1.21 MILES AND ROAD TURNING TO DIRT, CONTINUE ON 2.5 MILES TO THE CHESLEY FARMS AND LITTLE RIVER COUNTY ROAD 715 ON THE LEFT. TURN LEFT THROUGH GATE AND CONTINUE FOLLOWING ROAD .34 MILES THROUGH A 2ND GATE, CONTINUE ON .36 MILES THROUGH A 3RD GATE, CONTINUE ON .29 MILES TO A 4TH GATE, GO THROUGH GATE AND CONTINUE 0.15 MILES TO STATION 410004 ON THE RIGHT. CONTINUE ON 0.35 MILES STRAIGHT AHEAD PASSING THROUGH TWO MORE GATES TO THE STATION STRAIGHT AHEAD SET ON THE BANK OF THE RED RIVER NEXT TO 4 STRANDS OF BARB WIRE. THE STATION IS 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "410004A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 X 303, 660015,660017</p> <p>Ref Mon # 2 DQUA CORS,410001</p> <p>Ref Mon # 3 ARTX CORS, HOPE CORS</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 410005	Date Monumented 2/11/2003	Monumented By AHTD	County LITTLE RIVER	Route N/A	Job Number: 030208
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Zone Arkansas South	Zone Code 302	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 508,376.7001		Geoid Datum:
Easting (M) 202,008.5650		Latitude 33 37 30.7056396
Elevation (M)* 		Longitude 94 8 2.6374920
Northing (SFT) 1,667,899.2236		Ellipsoid Height (M): 60.886
Easting (SFT) 662,756.4337		Geoid Height (M): -26.966
Elevation (SFT)* 		

Convergence Angle -1 11 39.9006546	Location Description TO REACH THE STATION FROM THE COUNTY COURT HOUSE IN ASHDOWN GO SOUTH DOWN 2ND STREET 0.30 MILES (STREET BECOMES MARTIN LUTHER KING JR DRIVE) HERE, CONTINUE ON MLK JR DRIVE FOR A TOTAL DISTANCE OF 3.31MILES AND THE STATION ON THE LEFT. THE STATION IS 11.95 METERS EAST OF THE CENTER OF MLK JR. DR (CO ROAD 23), 5.50 METERS SOUTH OF A GRAVEL DRIVE, AND 1.45 METERS WEST OF A WITNESS. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED" 410005 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.
Scale Factor 0.999943816	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	355	21.80	71.5
MK # 2	GATE POST	104	9.50	31.2
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 X 303, 660015,660017	
Ref Mon # 2 DQUA CORS,410001	
Ref Mon # 3 ARTX CORS, HOPE CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 410005A	Date Monumented 2/11/2003	Monumented By AHTD	County LITTLE RIVER	Route N/A	Job Number: 030208
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	509,180.5522
Easting (M)	202,023.1900
Elevation (M)*	
Northing (SFT)	1,670,536.5283
Easting (SFT)	662,804.4159
Elevation (SFT)*	

Convergence Angle	-1	11	39.9470091
Scale Factor	0.999942927		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	234	3.50	11.5
MK # 2	TELEPHONE POLE	354	2.50	8.2
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 X 303, 660015,660017 Ref Mon # 2 DQUA CORS,410001 Ref Mon # 3 ARTX CORS, HOPE CORS	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 37 56.8020360
Longitude	94 8 2.7203136
Ellipsoid Height (M):	61.693
Geoid Height (M):	-26.970

Location Description
TO REACH THE STATION FROM THE COUNTY COURT HOUSE IN ASHDOWN GO SOUTH DOWN 2ND STREET 0.30 MILES (STREET BECOMES MARTIN LUTHER KING JR DRIVE) HERE, CONTINUE ON MLK JR DRIVE FOR A TOTAL DISTANCE OF 2.81 MILES AND THE STATION ON THE RIGHT AT THE HANEY CREEK MISSIONARY BAPTIST CHURCH. THE STATION IS 6.80 METERS WEST OF THE CENTER OF MARTIN LUTHER KING JR. DRIVE (CO. ROAD 23), AND 0.80 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "410005A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	410005
Geodetic Azimuth	179 50 52
Grid Azimuth	181 02 32

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 410006	Date Monumented 2/11/2003	Monumented By AHTD	County LITTLE RIVER	Route 71	Job Number: 030208
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	518,479.1192
Easting (M)	201,010.2110
Elevation (M)*	
Northing (SFT)	1,701,043.5769
Easting (SFT)	659,481.0006
Elevation (SFT)*	

Convergence Angle	-1	12	6.1771880
Scale Factor	0.999933814		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LOG MILE 14 SIGN POST	265	6.20	20.3
MK # 2	POWER POLE	4	26.90	88.3
MK # 3	NORTHERN MOST WOODEN BRACE POST	157	16.80	55.1

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>X 303, 660015,660017</td> </tr> <tr> <td>Ref Mon # 2</td> <td>DQUA CORS,410001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARTX CORS, HOPE CORS</td> </tr> </table>	Ref Mon # 1	X 303, 660015,660017	Ref Mon # 2	DQUA CORS,410001	Ref Mon # 3	ARTX CORS, HOPE CORS	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	X 303, 660015,660017							
Ref Mon # 2	DQUA CORS,410001							
Ref Mon # 3	ARTX CORS, HOPE CORS							
Comments								

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 33 42 57.8693592

Longitude 94 8 49.5858048

Ellipsoid Height (M): 71.871

Geoid Height (M): -27.042

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 108 LOCATED NORTH OF ASHDOWN, GO NORTH ON U.S. HIGHWAY 71 FOR 1.31 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.35 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71, 4.40 METERS WEST OF A WEBB WIRE FENCE LINE, AND 4.22 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED " 410006 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 410006A	Date Monumented 2/11/2003	Monumented By AHTD	County LITTLE RIVER	Route 71	Job Number: 030208
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Zone Arkansas South	Zone Code 302	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 519,095.6182		Geoid Datum:
Easting (M) 200,986.6190		Latitude 33 43 17.8596912
Elevation (M)* 		Longitude 94 8 51.0042336
Northing (SFT) 1,703,066.2074		Ellipsoid Height (M): 71.316
Easting (SFT) 659,403.5992		Geoid Height (M): -27.048
Elevation (SFT)* 		

Convergence Angle -1 12 6.9710694	Location Description
Scale Factor 0.999933283	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 108 LOCATED NORTH OF ASHDOWN, GO NORTH ON U.S. HIGHWAY 71 FOR 1.70 MILES TO THE STATION ON THE RIGHT. THE STATION IS 15.00 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71, 9.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "410006A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL				
Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	SOUTH END OF PLASTIC PIPE	282	4.80	15.7	410006
MK # 2	SOUTH GATE POST	22	6.40	21.0	176 36 24
MK # 3	GAS PIPE LINE MARKER	161	14.80	48.6	177 48 31

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 X 303, 660015,660017	
Ref Mon # 2 DQUA CORS,410001	
Ref Mon # 3 ARTX CORS, HOPE CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 410007	Date Monumented 2/11/2003	Monumented By AHTD	County LITTLE RIVER	Route 71	Job Number: 030208
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	523,955.8802	
Easting (M)	201,024.0370	
Elevation (M)*		
Northing (SFT)	1,719,011.9170	
Easting (SFT)	659,526.3614	
Elevation (SFT)*		

Convergence Angle	-1	12	8.3749254
Scale Factor	0.999929425		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>X 303, 660015, 660017</td> </tr> <tr> <td>Ref Mon # 2</td> <td>DQUA CORS, 410001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARTX CORS, HOPE CORS</td> </tr> </table>	Ref Mon # 1	X 303, 660015, 660017	Ref Mon # 2	DQUA CORS, 410001	Ref Mon # 3	ARTX CORS, HOPE CORS	<table style="width: 100%;"> <tr> <td style="width: 30%;">AZ Mark Station</td> <td>410007A</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>358 39 54</td> </tr> <tr> <td>Grid Azimuth</td> <td>359 52 02</td> </tr> </table>	AZ Mark Station	410007A	Geodetic Azimuth	358 39 54	Grid Azimuth	359 52 02
Ref Mon # 1	X 303, 660015, 660017												
Ref Mon # 2	DQUA CORS, 410001												
Ref Mon # 3	ARTX CORS, HOPE CORS												
AZ Mark Station	410007A												
Geodetic Azimuth	358 39 54												
Grid Azimuth	359 52 02												

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 45 55.6082784
Longitude	94 8 53.5125048
Ellipsoid Height (M):	62.507
Geoid Height (M):	-27.108

Location Description
TO REACH THE STATION FROM THE SEVIER / LITTLE RIVER COUNTY LINE, GO SOUTH ON U.S. HIGHWAY 71 FOR 1.70 MILES TO THE STATION ON THE LEFT. THE STATION IS 13.35 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "410007 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 410007A	Date Monumented 2/11/2003	Monumented By AHTD	County LITTLE RIVER	Route 71	Job Number: 030208
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	524,690.2402	
Easting (M)	201,022.3350	
Elevation (M)*		
Northing (SFT)	1,721,421.2297	
Easting (SFT)	659,520.7774	
Elevation (SFT)*		

Convergence Angle	-1	12	8.7471394
Scale Factor	0.999928893		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>X 303, 660015, 660017</td> </tr> <tr> <td>Ref Mon # 2</td> <td>DQUA CORS, 410001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARTX CORS, HOPE CORS</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	X 303, 660015, 660017	Ref Mon # 2	DQUA CORS, 410001	Ref Mon # 3	ARTX CORS, HOPE CORS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	X 303, 660015, 660017										
Ref Mon # 2	DQUA CORS, 410001										
Ref Mon # 3	ARTX CORS, HOPE CORS										
Comments											

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 46 19.4382012
Longitude	94 8 54.1775400
Ellipsoid Height (M):	62.677
Geoid Height (M):	-27.118

Location Description
<p>TO REACH THE STATION FROM THE SEVIER / LITTLE RIVER COUNTY LINE, GO SOUTH ON U.S. HIGHWAY 71 FOR 1.29 MILES TO THE STATION ON THE LEFT. THE STATION IS 16.20 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "410007A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 410008	Date Monumented 2/23/2012	Monumented By AHTD	County Little River	Route 41	Job Number: 030415
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	540,275.8841	
Easting (M)	177,402.1386	
Elevation (M)*	94.725	
Northing (SFT)	1,772,555.1298	
Easting (SFT)	582,026.8497	
Elevation (SFT)*	310.776	

Convergence Angle	-1	20	50.3957909
Scale Factor	0.999920898		
Elevation Adjust. Factor	0.9999851348		
Combined Adjust. Factor	0.9999060340		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>The station is located at the southwest corner of the junction of highways 41 and 380 at Billingsleys corner southwest of Horatio. 184 feet south of the center of hwy-380, 78.7 feet west of the center of hwy-41 and 2 feet WNW of a witness post. The station mark is a 2 1/2in. cap stamped "410008 2012" set on top of a 5/8 in. by 4 foot long rebar and is 0.20 ft. below the surface.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <p>ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS E 303, F 303, AND G 303 DURING JOB 030415 BY CREW S5112 IN OCT 2012.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 410008A	Date Monumented 2/23/2012	Monumented By AHTD	County Little River	Route 41	Job Number: 030415
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	539,679.4637				
Easting (M)	177,114.9339				
Elevation (M)*	95.693				
Northing (SFT)	1,770,598.3738				
Easting (SFT)	581,084.5790				
Elevation (SFT)*	313.954				

Convergence Angle	-1	20	56.3457305
Scale Factor	0.999921111		
Elevation Adjust. Factor	0.9999849828		
Combined Adjust. Factor	0.9999060950		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach the station from the junction of highways 41 and 380 southwest of Horatio go south on hwy-41 for 0.40 miles to the station on the left at the end of a guard rail. 68.9 ft. northeast of a bridge corner, 25.6 ft. east of the center of hwy-41 and 2 feet east of a witness post. The station mark is a 2 1/2in. cap stamped "410008A 2012" set on top of a 5/8 in. by 4 foot long rebar and is 0.20 ft. below the surface.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS E 303, F 303, AND G 303 DURING JOB 030415 BY CREW S5112 IN OCT 2012.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 410009	Date Monumented 4/29/2019	Monumented By ARDOT	County LITTLE RIVER	Route 71	Job Number: 030531
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	503,562.5275 0.0020
Easting (M)	210,628.4754 0.0020
Elevation (M)*	89.998 0.0006
Northing (SFT)	1,652,104.7256
Easting (SFT)	691,036.9230
Elevation (SFT)*	295.269

Convergence Angle	-1 8 30.6641693
Scale Factor	0.999949256
Elevation Adjust. Factor	0.9999858765
Combined Adjust. Factor	0.9999351332

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	4'X5' CONC. DI IN MEDIAN	302	44.70	146.7
MK # 2	C/L OF HWY 71/59 N BND	240	17.00	55.8
MK # 3	C/L OF HWY 71/59 S BND	65	8.00	26.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS Ref Mon # 2 ARHP Ref Mon # 3 TXCR	Digital levels ran from NGS BM Q307 during job 030531 by crew S5102 in May 2019

Vertical Determined By: 3rd Order - Digital Levels

Elevation Datum: NAVD 88

Geoid Datum: GEOID 12B

Latitude 33 35 0.1790880

Longitude 94 2 24.5284440

Ellipsoid Height (M): 62.960 0.0070

Geoid Height (M): -27.030

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71/59 AND I30, GO NORTH ON HWY 71/59 FROM THE INTERSECTION OF HWY 71/59 AND I30 FOR 8.8 MILES TO THE STATION I30 FOR 9.1MILES TO THE STATION ON THE LEFT. THE POINT IS A 2" ALUMINUM CAP STAMPED "2019 2019 410009" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND, 11.0 FEET SOUTH WEST OF A WITNESS POST, IN THE MEDIAN BETWEEN THE SOUTH BOUND AND THE NORTH BOUND LANES OF HWY 71/59.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 410009A	Date Monumented 4/29/2019	Monumented By ARDOT	County LITTLE RIVER	Route 71	Job Number: 030531
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	503,316.5144 0.0030
Easting (M)	210,856.1774 0.0030
Elevation (M)*	92.140 0.0007
Northing (SFT)	1,651,297.5977
Easting (SFT)	691,783.9754
Elevation (SFT)*	302.294

Convergence Angle	-1 8 25.6164958
Scale Factor	0.999949553
Elevation Adjust. Factor	0.9999855405
Combined Adjust. Factor	0.9999350942

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID 12B
Latitude	33 34 52.3425360
Longitude	94 2 15.5097600
Ellipsoid Height (M):	65.108 0.0100
Geoid Height (M):	-27.029

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71/59 AND I30, GO NORTH ON HWY 71/59 FROM THE INTERSECTION OF HWY 71/59 AND I30 FOR 8.8 MILES TO THE STATION I30 FOR 8.8MILES TO THE STATION ON THE RIGHT. THE POINT IS A 2" ALUMINUM CAP STAMPED "2019 2019 410009A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND, 35.0 FEET WEST OF A WITNESS POST, 75.4 FEET NORTH WEST OF THE C/L OF HWY 380, 28.0 FEET EAST OF THE C/L OF THE NORTH BOUND LANES OF HWY 71/59.</p>

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	P.P. #169		186	31.90	104.7
MK # 2	P.P. #68873		292	22.60	74.1
MK # 3	TELEPHONE BOX		255	11.80	38.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS	Digital levels ran from NGS BM Q307 during job 030531 by crew S5102 in May 2019
Ref Mon # 2 ARHP	
Ref Mon # 3 TXCR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420001	Date Monumented 2/17/1994	Monumented By AHTD	County LOGAN	Route 217	Job Number: R40099
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	86,545.6761	
Easting (M)	231,638.2190	
Elevation (M)*	162.462	
Northing (SFT)	283,941.9390	
Easting (SFT)	759,966.3902	
Elevation (SFT)*	533.011	

Convergence Angle	-1	4	28.4960346
Scale Factor	0.999971535		
Elevation Adjust. Factor	0.9999745051		
Combined Adjust. Factor	0.9999460408		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	337	9.85	32.3
MK # 2	NONE			
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>PINNACLE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>Q-299</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	PINNACLE	Ref Mon # 2	Q-299	Ref Mon # 3	NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	PINNACLE										
Ref Mon # 2	Q-299										
Ref Mon # 3	NONE										
Comments											

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 5 57.1279812
Longitude	93 50 48.0526404
Ellipsoid Height (M):	131.761
Geoid Height (M):	-30.701

Location Description
<p>FROM THE JCT. OF HWY. 217 AND HWY. 23 IN BOONEVILLE, GO EAST ON HWY. 217 FOR 9.14 KM (5.68 MILES) TO THE STATION ON THE LEFT. THE STATION IS 10.70 METERS NORTH NORTHEAST OF THE CENTERLINE OF HWY. 217, 30.0 METERS SOUTHEAST OF A FIELD ENTRANCE AND 1.76 METERS SOUTH SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "420001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420001A	Date Monumented 2/17/1994	Monumented By AHTD	County LOGAN	Route 217	Job Number: R40099
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	86,175.2491	
Easting (M)	231,994.9070	
Elevation (M)*	153.100	
Northing (SFT)	282,726.6298	
Easting (SFT)	761,136.6240	
Elevation (SFT)*	502.296	

Convergence Angle	-1	4	20.1429627
Scale Factor	0.999972018		
Elevation Adjust. Factor	0.9999759742		
Combined Adjust. Factor	0.9999479929		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MONUMENT	346	40.83	134.0
MK # 2	CONCRETE RIGHT OF WAY MONUMENT	20	24.66	80.9
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>PINNACLE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>Q-299</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	PINNACLE	Ref Mon # 2	Q-299	Ref Mon # 3	NONE	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	PINNACLE							
Ref Mon # 2	Q-299							
Ref Mon # 3	NONE							
Comments								

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 5 45.3264972
Longitude	93 50 33.6977952
Ellipsoid Height (M):	122.403
Geoid Height (M):	-30.697

Location Description
FROM THE JCT. OF HWY. 217 AND HWY. 23 IN BOONEVILLE, GO EAST ON HWY. 217 FOR 9.65 KM (5.99 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 12.90 METERS SOUTH SOUTHWEST OF THE CENTERLINE OF HWY. 217 AND 1.145 METERS NORTH NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "420001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420002	Date Monumented 2/17/1994	Monumented By AHTD	County LOGAN	Route 109	Job Number: R40099
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	89,730.8751	
Easting (M)	235,010.4200	
Elevation (M)*	131.883	
Northing (SFT)	294,392.0461	
Easting (SFT)	771,030.0196	
Elevation (SFT)*	432.686	

Convergence Angle	-1	3	12.3751222
Scale Factor	0.999967372		
Elevation Adjust. Factor	0.9999793037		
Combined Adjust. Factor	0.9999466764		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FOURTH GUARD RAIL POST FROM END OF BRIDGE	125	2.50	8.2
MK # 2	EIGHTH GUARD RAIL POST FROM END OF BRIDGE	333	2.40	7.9
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 PINNACLE Ref Mon # 2 Q-299 Ref Mon # 3 NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">AZ Mark Station</th> <td style="text-align: center;">420002A</td> </tr> <tr> <th style="text-align: center;">Geodetic Azimuth</th> <td style="text-align: center;">109 19 43.35582</td> </tr> <tr> <th style="text-align: center;">Grid Azimuth</th> <td style="text-align: center;">110 22 55.68535</td> </tr> </table> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>	AZ Mark Station	420002A	Geodetic Azimuth	109 19 43.35582	Grid Azimuth	110 22 55.68535
AZ Mark Station	420002A						
Geodetic Azimuth	109 19 43.35582						
Grid Azimuth	110 22 55.68535						

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 7 42.5024868
Longitude	93 48 37.2380220
Ellipsoid Height (M):	101.266
Geoid Height (M):	-30.617

Location Description
FROM THE JCT. OF HWY. 10 AND HWY. 109 IN THE TOWN OF MAGAZINE, GO SOUTH ON HWY. 109 FOR 2.84 KM (1.77 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 5.70 METERS SOUTHWEST OF THE CENTERLINE OF HWY. 109, 5.30 METERS NORTH NORTHWEST OF THE BRIDGE END, 4.50 METERS NORTH NORTHWEST OF A WITNESS POST AND 0.57 METERS SOUTHWEST OF ANOTHER WITNESS POST ADJACENT TO THE GUARD RAIL. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "420002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420002A	Date Monumented 2/17/1994	Monumented By AHTD	County LOGAN	Route 109	Job Number: R40099
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	89,599.6341				
Easting (M)	235,363.6530				
Elevation (M)*	156.490				
Northing (SFT)	293,961.4662				
Easting (SFT)	772,188.9182				
Elevation (SFT)*	513.418				

Convergence Angle	-1	3	4.2023550
Scale Factor	0.999967527		
Elevation Adjust. Factor	0.9999754422		
Combined Adjust. Factor	0.9999429700		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN FENCE POST	330	8.33	27.3
MK # 2	NBC IN FENCE POST	300	18.68	61.3
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 PINNACLE	
Ref Mon # 2 Q-299	
Ref Mon # 3 NONE	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 7 38.4549240
Longitude	93 48 23.1930324
Ellipsoid Height (M):	125.877
Geoid Height (M):	-30.613

Location Description
<p>FROM THE JCT. OF HWY. 10 AND HWY. 109 IN THE TOWN OF MAGAZINE, GO SOUTH ON HWY. 109 FOR 3.21 KM (1.99 MILES) TO THE STATION ON THE LEFT. THE STATION IS 9.975 METERS NORTHEAST OF THE CENTERLINE OF HWY. 109, 13.95 METERS EAST OF A TRACK ROAD, 6.10 METERS SOUTHWEST OF A FENCE LINE AND 0.60 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "420002A" SET ON TOP OF A 3/4" REBAR 0.457 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420003	Date Monumented 4/23/1996	Monumented By AHTD	County LOGAN	Route 309	Job Number: 4818
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	104,924.4611	
Easting (M)	246,874.4190	
Elevation (M)*	168.577	
Northing (SFT)	344,239.6695	
Easting (SFT)	809,953.8230	
Elevation (SFT)*	553.073	

Convergence Angle	0	58	45.6986170
Scale Factor	0.999951146		
Elevation Adjust. Factor	0.9999735455		
Combined Adjust. Factor	0.9999246928		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	358	20.45	67.1
MK # 2	TWIN TRUNK CEDAR TREE	265	17.40	57.1
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 OZARPORT Ref Mon # 2 CLARPORT Ref Mon # 3 PINNACLE 1917	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3-WIRE USING USC&GS BENCH MARK # TT 14 WM 1958</td> </tr> </table>	Comments	ELEVATION BY 3-WIRE USING USC&GS BENCH MARK # TT 14 WM 1958
Comments			
ELEVATION BY 3-WIRE USING USC&GS BENCH MARK # TT 14 WM 1958			

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 22-109 & 309 LOCATED AT THE SOUTHEAST CORNER OF THE LOGAN COUNTY COURTHOUSE SQUARE IN PARIS, GO SOUTH ON HWY-109 & 309 FOR 1.61 KM. (1.0 MI.) TO A "Y" JUNCTION, GO LEFT AND EASTERLY ON HWY-309 FOR 5.31 KM. (3.30 MI.) TO THE STATION ON THE LEFT. 8.35 METERS EAST OF THE CENTER OF HWY-309 AND 0.42 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "420003 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420003A	Date Monumented 4/23/1996	Monumented By AHTD	County LOGAN	Route 309	Job Number: 4818
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	105,435.1961	
Easting (M)	246,873.7240	
Elevation (M)*	161.652	
Northing (SFT)	345,915.3059	
Easting (SFT)	809,951.5428	
Elevation (SFT)*	530.353	

Convergence Angle	0	58	45.9156170
Scale Factor	0.999950707		
Elevation Adjust. Factor	0.9999746322		
Combined Adjust. Factor	0.9999253404		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER POST	352	15.45	50.7
MK # 2	NONE			
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>OZARPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>CLARPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>PINNACLE 1917</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	OZARPORT	Ref Mon # 2	CLARPORT	Ref Mon # 3	PINNACLE 1917	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3-WIRE USING USC&GS BENCH MARK # TT 14 WM 1958</td> </tr> </table>	Comments	ELEVATION BY 3-WIRE USING USC&GS BENCH MARK # TT 14 WM 1958
Area Reference Monuments (used for Processing)											
Ref Mon # 1	OZARPORT										
Ref Mon # 2	CLARPORT										
Ref Mon # 3	PINNACLE 1917										
Comments											
ELEVATION BY 3-WIRE USING USC&GS BENCH MARK # TT 14 WM 1958											

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	35 16 18.8577768
Longitude	93 40 59.3244552
Ellipsoid Height (M):	131.419
Geoid Height (M):	-30.233

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 22-109 & 309 LOCATED AT THE SOUTHEAST CORNER OF THE LOGAN COUNTY COURTHOUSE SQUARE IN PARIS, GO SOUTH ON HWY-109 & 309 FOR 1.61 KM. (1.0 MI.) TO A "Y" JUNCTION, GO LEFT AND EASTERLY ON HWY-309 FOR 4.75 KM. (2.95 MI.) TO THE STATION ON THE RIGHT. 9.50 METERS WEST OF THE CENTER OF HWY-309 AND 1.07 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "420003A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	420003
Geodetic Azimuth	178 56 33.3379
Grid Azimuth	179 55 19.25268

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420004	Date Monumented 4/23/1996	Monumented By AHTD	County LOGAN	Route 109	Job Number: 4818, 004980
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	106,568.6515	0.0020	
Easting (M)	242,613.0574	0.0020	
Elevation (M)*			

Northing (SFT)	349,633.9841		
Easting (SFT)	795,973.0058		
Elevation (SFT)*			

Convergence Angle	-1	0	24.4612070
Scale Factor	0.999949818		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	16	53.2480116
Longitude	93	43	48.6687108
Ellipsoid Height:	99.966		
Grid Northing (Meters)	106,569.0031		
Grid Easting (Meters)	242,613.2510		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	GUY POLE		116	17.00	55.8
MK # 2	COMBINATION POLE		167	5.20	17.1
MK # 3	COMBINATION POLE		358	31.50	103.3

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHP (OZARPORT) Ref Mon # 2 ARLR (CLARPORT) Ref Mon # 3 ARFY, ARHR (PINNACLE 191)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>OLD ELEV. (130.218m) SOURCE WAS UNDOCUMENTED</td> </tr> </table>	Comments	OLD ELEV. (130.218m) SOURCE WAS UNDOCUMENTED
Comments			
OLD ELEV. (130.218m) SOURCE WAS UNDOCUMENTED			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12A
Latitude	35 16 53.2364952
Longitude	93 43 48.6761268
Ellipsoid Height (M):	100.602 0.0050
Geoid Height (M):	-29.757 0.0050

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 22-109 AND 309 AT THE SOUTHEAST CORNER OF THE LOGAN COUNTY COURTHOUSE SQUARE IN PARIS, GO SOUTH ON HIGHWAYS 109 & 309 FOR 1.21 KM. (0.75 MI.) TO THE STATION ON THE RIGHT. 11.90 METERS NORTH OF THE NORTH DRIVEWAY TO THE LOGAN COUNTY NURSING CENTER, 11.40 METERS SOUTH OF A GRAVEL DRIVE, 5.70 METERS WEST OF THE CENTER OF THE HIGHWAY AND 0.62 METERS EAST OF A WITNESS POST SET NEXT TO A CHAIN LINK FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "420004 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	420004A
Geodetic Azimuth	2 08 25.29491
Grid Azimuth	3 08 49.75021

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420004A	Date Monumented 4/23/1996	Monumented By AHTD	County LOGAN	Route 109	Job Number: 4818, 004980
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	107,068.0580	0.0020	
Easting (M)	242,640.5168	0.0020	
Elevation (M)*			
Northing (SFT)	351,272.4536		
Easting (SFT)	796,063.0955		
Elevation (SFT)*			

Convergence Angle	-1	0	24.0310218
Scale Factor	0.999949409		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	17	9.4666560
Longitude	93	43	47.9294436
Ellipsoid Height:	96.009		
Grid Northing (Meters)	107,068.4031		
Grid Easting (Meters)	242,640.7100		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	GUY POLE		41	29.30	96.1
MK # 2	COMBINATION POLE		114	27.00	88.6
MK # 3	GUY POLE		175	20.00	65.6

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHP(OZARPORT) Ref Mon # 2 ARLR(CLARPORT) Ref Mon # 3 ARFY, ARHR (PINNACLE 191)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>OLD ELEV. (126.251m) SOURCE WAS UNDOCUMENTED</td> </tr> </table>	Comments	OLD ELEV. (126.251m) SOURCE WAS UNDOCUMENTED
Comments			
OLD ELEV. (126.251m) SOURCE WAS UNDOCUMENTED			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420005	Date Monumented 8/10/1998	Monumented By AHTD	County LOGAN	Route 10	Job Number: R80019
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	90,115.8481	
Easting (M)	243,619.8120	
Elevation (M)*	162.500	
Northing (SFT)	295,655.0783	
Easting (SFT)	799,275.9999	
Elevation (SFT)*	533.135	

Convergence Angle	0	59	54.6789344
Scale Factor	0.999966706		
Elevation Adjust. Factor	0.9999744991		
Combined Adjust. Factor	0.9999412060		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	340	20.79	68.2
MK # 2	COMBINATION POLE = TBM 901	107	45.99	150.9
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEVATION ON THIS STATION WAS ESTABLISHED BY 3 WIRE LEVELING FROM USC&GS BENCH MARK H 46 1934.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420005A	Date Monumented 8/10/1998	Monumented By AHTD	County LOGAN	Route 10	Job Number: R80019
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	90,294.6670	
Easting (M)	243,244.4090	
Elevation (M)*	163.813	
Northing (SFT)	296,241.7533	
Easting (SFT)	798,044.3652	
Elevation (SFT)*	537.443	

Convergence Angle	-1	0	3.3782933
Scale Factor	0.999966494		
Elevation Adjust. Factor	0.9999742931		
Combined Adjust. Factor	0.9999407879		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	348	23.97	78.6
MK # 2	EAST END OF A 0.457 METER CMP	320	33.31	109.3
MK # 3	WEST END OF A 0.381 METER CMP	103	33.43	109.7

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>Q 299</td> </tr> <tr> <td>Ref Mon # 2</td> <td>OZARPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>91750001</td> </tr> </table>	Ref Mon # 1	Q 299	Ref Mon # 2	OZARPORT	Ref Mon # 3	91750001	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	Q 299						
Ref Mon # 2	OZARPORT						
Ref Mon # 3	91750001						

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 8 5.5846500
Longitude	93 43 12.4449096
Ellipsoid Height (M):	134.012
Geoid Height (M):	-29.801

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 309 SOUTH, IN WAVELAND, GO WEST ON STATE HIGHWAY 10 FOR 8.37 KM (5.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 40.919 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY, 9.939 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.77 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "420005A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	420005
Geodetic Azimuth	114 28 09.58604
Grid Azimuth	115 28 12.91646

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420006	Date Monumented 8/26/1998	Monumented By AHTD	County LOGAN	Route 10	Job Number: 040246
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 92,198.5641		Geoid Datum:
Easting (M) 219,308.8360		Latitude 35 8 52.7501328
Elevation (M)* 175.792		Longitude 93 58 59.2674132
Northing (SFT) 302,488.1224		Ellipsoid Height (M): 145.651
Easting (SFT) 719,515.7394		Geoid Height (M): -30.101
Elevation (SFT)* 576.744		

Convergence Angle -1 9 14.3334826	Location Description TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 60, LOCATED ABOUT 4.35 KM (2.70 MI) WEST OF BOONEVILLE, GO EAST ON STATE HIGHWAY 10 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE RIGHT. THE STATION IS 37.96 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 9.831 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10 AND 1.22 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "420006 1998" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.
Scale Factor 0.999964740	
Elevation Adjust. Factor 0.9999724133	
Combined Adjust. Factor 0.9999371542	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	4	21.98	72.1
MK # 2	GAS METER	221	5.36	17.6
MK # 3	TELEPHONE JUNCTION BOX	246	14.54	47.7

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD FS2 Ref Mon # 2 OZARPORT Ref Mon # 3 Q 299	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevations based on 3 wire from NGS point V 45</td> </tr> </table>	Comments	Elevations based on 3 wire from NGS point V 45
Comments			
Elevations based on 3 wire from NGS point V 45			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420006A	Date Monumented 8/26/1998	Monumented By AHTD	County LOGAN	Route 10	Job Number: 040246
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 92,092.2691		Latitude 35 8 49.6567788
Easting (M) 219,853.2320		Longitude 93 58 37.6793184
Elevation (M)* 165.883		Ellipsoid Height (M): 135.786
		Geoid Height (M): -30.097

Northing (SFT) 302,139.3862		
Easting (SFT) 721,301.8120		
Elevation (SFT)* 544.234		

Convergence Angle -1 9 1.7713890		
Scale Factor 0.999964853		
Elevation Adjust. Factor 0.9999739682		
Combined Adjust. Factor 0.9999388221		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 60, LOCATED ABOUT 4.35 KM (2.70 MI) WEST OF BOONEVILLE, GO EAST ON STATE HIGHWAY 10 FOR 0.80 KM (0.50 MI) TO THE STATION ON THE LEFT. THE STATION IS 23.00 METERS WEST OF THE CENTER OF A PAVED DRIVE, 9.57 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 1.13 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "420006A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE POLE	90	18.65	61.2	AZ Mark Station 420006
MK # 2	POWER POLE	180	22.65	74.3	Geodetic Azimuth 279 53 51.55731
MK # 3	TELEPHONE POLE	283	27.10	88.9	Grid Azimuth 281 02 53.39581

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 AHTD FS2</p> <p>Ref Mon # 2 OZARPORT</p> <p>Ref Mon # 3 Q 299</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420007	Date Monumented 6/25/2001	Monumented By AHTD	County LOGAN	Route 309	Job Number: 040347
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	116,462.9031	
Easting (M)	238,950.3630	
Elevation (M)*		
Northing (SFT)	382,095.3746	
Easting (SFT)	783,956.3159	
Elevation (SFT)*		

Convergence Angle	-1	1	52.8924198
Scale Factor	0.999942886		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF A CONCRETE HEAD WALL	288	16.45	54.0
MK # 2	METAL GATE POST	260	6.80	22.3
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>CLARKPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>OZARPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>240006</td> </tr> </table>	Ref Mon # 1	CLARKPORT	Ref Mon # 2	OZARPORT	Ref Mon # 3	240006	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	CLARKPORT							
Ref Mon # 2	OZARPORT							
Ref Mon # 3	240006							
Comments								

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 22 12.1383948

Longitude 93 46 20.6461308

Ellipsoid Height (M): 92.095

Geoid Height (M): -29.465

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 288 AND 309, LOCATED IN ROSEVILLE, GO SOUTH ON STATE HIGHWAY 309 FOR 1.416 KM (0.88 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.45 METERS EAST OF THE CENTER OF A GRAVEL ROAD, 17.40 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 309, AND 0.675 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "420007 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 759.139 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420007A	Date Monumented 6/25/2001	Monumented By AHTD	County LOGAN	Route 309	Job Number: 040347
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	117,208.0821	
Easting (M)	238,805.7340	
Elevation (M)*		
Northing (SFT)	384,540.1827	
Easting (SFT)	783,481.8123	
Elevation (SFT)*		

Convergence Angle	-1	1	56.5355381
Scale Factor	0.999942458		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL IN LINE BRACE POST	350	9.20	30.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CLARKPORT	
Ref Mon # 2 OZARPORT	
Ref Mon # 3 240006	

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 22 36.2307612

Longitude 93 46 26.9068692

Ellipsoid Height (M): 89.411

Geoid Height (M): -29.448

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 288 AND 309, LOCATED IN ROSEVILLE, GO SOUTH ON STATE HIGHWAY 309 FOR 0.66 KM (0.41 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.60 METERS EAST OF THE CENTER OF STATE HIGHWAY 309 AND 0.545 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "420007A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 759.139 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420008	Date Monumented 12/19/2006	Monumented By AHTD	County LOGAN	Route 22	Job Number: 040472,004980
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	108,810.7451	
Easting (M)	232,434.8920	
Elevation (M)*	131.562	
Northing (SFT)	356,989.9195	
Easting (SFT)	762,580.1415	
Elevation (SFT)*	431.632	

Convergence Angle	-1	4	19.7670463
Scale Factor	0.999948171		
Elevation Adjust. Factor	0.9999793541		
Combined Adjust. Factor	0.9999275262		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	137	6.79	22.3
MK # 2	Wooden fence post	176	5.85	19.2
MK # 3	Gas meter	92	28.04	92.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 OKHV Ref Mon # 2 Ozarport Ref Mon # 3 ARLR	3-wire levels ran from NGS 2nd Order Monument "TTS 4 H" by crew S5112 in July 07.

Location Description	
To reach the station from the junction of highways 22 and 23 in Caulksville, go east on Hwy-22 for 1.20 miles to the station on the right. 32 feet west of a gravel drive to a brick house, 59 feet south of the center of Hwy-22 and 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "420008 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420008A	Date Monumented 12/19/2006	Monumented By AHTD	County LOGAN	Route 22	Job Number: 040472,004980
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	108,942.5321	
Easting (M)	231,832.5000	
Elevation (M)*	120.506	
Northing (SFT)	357,422.2907	
Easting (SFT)	760,603.7938	
Elevation (SFT)*	395.360	

Convergence Angle	-1	4	33.6965509
Scale Factor	0.999948078		
Elevation Adjust. Factor	0.9999810891		
Combined Adjust. Factor	0.9999291680		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Metal fence corner post	219	11.64	38.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: OKHV	3-wire levels ran from NGS 2nd Order Monument "TTS 4 H" by crew S5112 in July 07.
Ref Mon # 2: Ozarport	
Ref Mon # 3: ARLR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420009	Date Monumented 12/19/2006	Monumented By AHTD	County LOGAN	Route 22	Job Number: 040472
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	108,421.2421	
Easting (M)	236,210.8100	
Elevation (M)*	123.442	
Northing (SFT)	355,712.0251	
Easting (SFT)	774,968.2991	
Elevation (SFT)*	404.993	

Convergence Angle	-1	2	52.6464598
Scale Factor	0.999948420		
Elevation Adjust. Factor	0.9999806283		
Combined Adjust. Factor	0.9999290493		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Wood corner post	109	1.82	6.0
MK # 2	Railroad iron post	14	3.69	12.1
MK # 3	East end of a headwall	264	32.19	105.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 OKHV Ref Mon # 2 Ozarport Ref Mon # 3 ARLR	3-wire levels ran from NGS 2nd Order Monument "TTS 4 H" by crew S5112 in July 07.

Location Description	
To reach the station from the junction of highways 22 and 23 in Caulksville, go east on Hwy-22 for 3.40 miles to the station on the right at the top of the ditch bank on the south side of the ditch. 72 feet south of the center of Hwy-22, 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "420009 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420009A	Date Monumented 12/19/2006	Monumented By AHTD	County LOGAN	Route 22	Job Number: 040472
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	108,467.9381	
Easting (M)	236,787.0960	
Elevation (M)*	129.579	
Northing (SFT)	355,865.2269	
Easting (SFT)	776,858.9975	
Elevation (SFT)*	425.126	

Convergence Angle	-1	2	39.3950937
Scale Factor	0.999948375		
Elevation Adjust. Factor	0.9999796653		
Combined Adjust. Factor	0.9999280413		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Water meter	79	9.14	30.0
MK # 2	East end of a culvert	133	4.57	15.0
MK # 3	Power pole	269	30.97	101.6

Area Reference Monuments (used for Processing) Ref Mon # 1 OKHV Ref Mon # 2 Ozarport Ref Mon # 3 ARLR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire levels ran from NGS 2nd Order Monument "TTS 4 H" by crew S5112 in July 07.</td> </tr> </table>	Comments	3-wire levels ran from NGS 2nd Order Monument "TTS 4 H" by crew S5112 in July 07.
Comments			
3-wire levels ran from NGS 2nd Order Monument "TTS 4 H" by crew S5112 in July 07.			

Location Description	
To reach the station from the junction of highways 22 and 23 in Caulksville, go east on Hwy-22 for 3.80 miles to the station on the left 55.4 feet north of the center of Hwy-22, 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "420009A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430001	Date Monumented 12/4/1995	Monumented By AHTD	County LONOKE	Route 5	Job Number: 48,061229,061261,061383,06
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	68,249.1100	
Easting (M)	394,175.5197	
Elevation (M)*	90.613	
Northing (SFT)	223,913.9551	
Easting (SFT)	1,293,224.1842	
Elevation (SFT)*	297.287	

Convergence Angle	0	2	13.5741185
Scale Factor	0.999997058		
Elevation Adjust. Factor	0.9999857800		
Combined Adjust. Factor	0.9999828380		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	56	54.5929332
Longitude	92	3	49.5412128
Ellipsoid Height:	62.770		
Grid Northing (Meters)	68,249.7011		
Grid Easting (Meters)	394,175.7070		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	"X" CUT IN SOUTHEAST END OF BRIDGE	287	2.15	7.1
MK # 2	NBC IN WOODEN GUARD RAIL POST	216	0.85	2.8
MK # 3	NBC IN WOODEN GUARD RAIL POST	151	4.06	13.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 430017A, 430014, 430014A Ref Mon # 3 430016, 430016A	PREVIOUS ELEVATION (90.651m) ON THIS STATION WAS ARRIVED AT BY USING A TBM FROM JOB # A RAIL ROAD SPIKE SET IN A LARGE OAK TREE IN THE NORHTEAST CORNER OF THE JUNCTION OF HWY-5 AND HWY-321. UPDATED ELEVATION BASED ON DIGITAL LEVELS BY S5111 IN JUNE OF 2011 FROM NGS 1ST ORDER BM RV 152 TO NGS 1ST ORDER BM RV 135 UNDER P.E. JOB #061261.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430001A	Date Monumented 12/4/1995	Monumented By AHTD	County LONOKE	Route N/A	Job Number: 001748,061229,061261,061383
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	67,962.4730	
Easting (M)	393,751.2390	
Elevation (M)*	92.257	
Northing (SFT)	222,973.5468	
Easting (SFT)	1,291,832.1900	
Elevation (SFT)*	302.680	

Convergence Angle	0	2	23.2996722
Scale Factor	0.999997556		
Elevation Adjust. Factor	0.9999855221		
Combined Adjust. Factor	0.9999830781		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	56	45.2825016
Longitude	92	4	6.2543820
Ellipsoid Height:	64.403		
Grid Northing (Meters)	67,963.0711		
Grid Easting (Meters)	393,751.4340		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	"X" CUT IN CONCRETE GUARD RAIL POST	250	1.99	6.5
MK # 2	COMBINATION POLE	289	22.90	75.1
MK # 3	MAN HOLE	316	18.46	60.6

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 430017A, 430014, 430014A Ref Mon # 3 430016, 430016A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> PREVIOUS ELEVATION (92.281m) ON THIS STATION WAS ARRIVED AT BY USING A TBM FROM JOB # A RAIL ROAD SPIKE SET IN A LARGE OAK TREE IN THE NORHTEAST CORNER OF THE JUNCTION OF HWY-5 AND HWY-321. UPDATED ELEVATION BASED ON DIGITAL LEVELS BY S5111 IN JUNE OF 2011 FROM NGS 1ST ORDER BM RV 152 TO NGS 1ST ORDER BM RV 135 UNDER P.E. JOB #061261. </td> </tr> </table>	Comments	PREVIOUS ELEVATION (92.281m) ON THIS STATION WAS ARRIVED AT BY USING A TBM FROM JOB # A RAIL ROAD SPIKE SET IN A LARGE OAK TREE IN THE NORHTEAST CORNER OF THE JUNCTION OF HWY-5 AND HWY-321. UPDATED ELEVATION BASED ON DIGITAL LEVELS BY S5111 IN JUNE OF 2011 FROM NGS 1ST ORDER BM RV 152 TO NGS 1ST ORDER BM RV 135 UNDER P.E. JOB #061261.
Comments			
PREVIOUS ELEVATION (92.281m) ON THIS STATION WAS ARRIVED AT BY USING A TBM FROM JOB # A RAIL ROAD SPIKE SET IN A LARGE OAK TREE IN THE NORHTEAST CORNER OF THE JUNCTION OF HWY-5 AND HWY-321. UPDATED ELEVATION BASED ON DIGITAL LEVELS BY S5111 IN JUNE OF 2011 FROM NGS 1ST ORDER BM RV 152 TO NGS 1ST ORDER BM RV 135 UNDER P.E. JOB #061261.			

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF HWY-5, HWY-321 AND HWY-367 ABOUT 8.0 KM. NORTH OF JACKSONVILLE, GO NORTH ON HWY-5 FOR 0.56 KM. (0.35 MI.) TO A PAVED ACCESS ROAD ON THE LEFT, GO LEFT ON THE ACCESS ROAD AND CONTINUE AHEAD SOUTHERLY FOR 0.56 KM. (0.35 MI.) TO THE STATION ON THE LEFT JUST OVER THE GUARD RAIL. 32.11 METERS NORTHWEST OF THE WEST EDGE OF THE CONCRETE SOUTH BOUND LANE OF HWY-67-167, 6.06 METERS SOUTHEAST OF THE CENTER OF THE ACCESS ROAD AND 0.54 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430001A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430002	Date Monumented 12/4/1995	Monumented By AHTD	County LONOKE	Route 5	Job Number: 061085, 060906
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	72,805.0788	0.0020			
Easting (M)	393,464.0824	0.0020			
Elevation (M)*	135.128				
Northing (SFT)	238,861.3294				
Easting (SFT)	1,290,890.0770				
Elevation (SFT)*	443.332				

Convergence Angle	0	2	29.9656295
Scale Factor	0.999989426		
Elevation Adjust. Factor	0.9999787945		
Combined Adjust. Factor	0.9999682207		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	59	22.3991988
Longitude	92	4	17.7186108
Ellipsoid Height:	107.804		
Grid Northing (Meters)	72,805.0570		
Grid Easting (Meters)	393,464.0560		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	NAD 83 (1986) LAT 34 59 22.418443 (N) LON 92 04 17.711281 (W) *****SUPERCEDED GEOID HT. = -27.166m & SUPERCEDED REF. MONUMENTS WERE AHTD LROC, AHTD MON 1 & BUTLER ***** *****UPDATE D STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARLR & ARSC *****
Ref Mon # 2 ARLR	
Ref Mon # 3 ARPB, ARSC	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430002A	Date Monumented 12/4/1995	Monumented By AHTD	County LONOKE	Route 5	Job Number: 061085, 060906
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	73,444.2395 0.0020
Easting (M)	393,511.0760 0.0020
Elevation (M)*	129.765

Northing (SFT)	240,958.3091		
Easting (SFT)	1,291,044.2552		
Elevation (SFT)*	425.737		

Convergence Angle	0	2	28.8979561
Scale Factor	0.999988396		
Elevation Adjust. Factor	0.9999796361		
Combined Adjust. Factor	0.9999680323		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	59	43.1411712
Longitude	92	4	15.8839428
Ellipsoid Height:	102.466		
Grid Northing (Meters)	73,444.2170		
Grid Easting (Meters)	393,511.0460		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	97	1.74	5.7
MK # 2	GUY POLE	281	28.49	93.5
MK # 3	COMBINATION POLE	2	28.03	92.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARLR Ref Mon # 3 ARPB, ARSC	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> NAD 83 (1986) LAT 34 59 43.160320 (N) LON 92 04 15.876474 (W) *****SUPERCEDED GEOID HT. = -27.178m & SUPERCEDED REF. MONUMENTS WERE AHTD LROC, AHTD MON 1 & BUTLER ***** *****UPDATE D STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARLR & ARSC ***** </td> </tr> </table>	Comments	NAD 83 (1986) LAT 34 59 43.160320 (N) LON 92 04 15.876474 (W) *****SUPERCEDED GEOID HT. = -27.178m & SUPERCEDED REF. MONUMENTS WERE AHTD LROC, AHTD MON 1 & BUTLER ***** *****UPDATE D STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARLR & ARSC *****
Comments			
NAD 83 (1986) LAT 34 59 43.160320 (N) LON 92 04 15.876474 (W) *****SUPERCEDED GEOID HT. = -27.178m & SUPERCEDED REF. MONUMENTS WERE AHTD LROC, AHTD MON 1 & BUTLER ***** *****UPDATE D STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARLR & ARSC *****			

Vertical Determined By: 3rd Order - 3 Wire Levels

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 34 59 43.1419020

Longitude 92 4 15.8827620

Ellipsoid Height (M): 102.433 0.0070

Geoid Height (M): -27.283 0.0070

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-89 ABOUT 5.0 KM. WEST OF CABOT, GO NORTH ON HWY-5 FOR 1.45 KM. (0.90 MI.) TO THE STATION ON THE RIGHT. 18.10 METERS NORTH OF THE CENTER OF "192 ARKY COVE ROAD", 13.49 METERS EAST OF THE CENTER OF HWY-5, 8.36 METERS SOUTH OF THE CENTER OF A PAVED DRIVEWAY AND 1.56 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430002A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430003	Date Monumented 12/4/1995	Monumented By AHTD	County LONOKE	Route 5	Job Number: 001748, 060906
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	79,389.0893	0.0020			
Easting (M)	392,333.6018	0.0020			
Elevation (M)*	92.178				

Northing (SFT)	260,462.3705				
Easting (SFT)	1,287,181.1586				
Elevation (SFT)*	302.421				

Convergence Angle	0	2	56.0332494		
Scale Factor	0.999979294				
Elevation Adjust. Factor	0.9999855345				
Combined Adjust. Factor	0.9999648288				

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)				
Latitude	35	2	56.0408136		
Longitude	92	5	2.5082844		
Ellipsoid Height:	64.128				
Grid Northing (Meters)	79,389.6261				
Grid Easting (Meters)	392,333.7740				

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA, GO SOUTH ON HWY-5 FOR 6.20 KM. (3.85 MI.) TO THE JUNCTION WITH HWY-319, CONTINUE SOUTH ON HWY-5 FOR 0.72 KM. (0.45 MI.) TO THE STATION ON THE LEFT. 14.29 METERS NORTH OF THE CENTER OF A GRAVEL ENTRANCE TO A CAR WASH, 11.85 METERS EAST OF THE CENTER OF HWY-5 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430003 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	153	39.99	131.2
MK # 2	TELEPHONE JUNCTION BOX	218	33.10	108.6
MK # 3	GUY POLE	298	30.15	98.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	SUPERCEDED GEOID HT. = -28.065m SUPERCEDED REF. MONUMENTS WERE 120009, 430001 & 730001 *****UPDATE D STATIC DERIVED ELEV. IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARLR & ARSC
Ref Mon # 2 ARLR	
Ref Mon # 3 ARPB, ARSC	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430003A	Date Monumented 12/4/1995	Monumented By AHTD	County LONOKE	Route 5	Job Number: 001748, 060906
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	79,876.8411	0.0020			
Easting (M)	392,261.1990	0.0030			
Elevation (M)*	87.401				

Northing (SFT)	262,062.6028				
Easting (SFT)	1,286,943.6171				
Elevation (SFT)*	286.748				

Convergence Angle	0	2	57.7053859		
Scale Factor	0.999978586				
Elevation Adjust. Factor	0.9999862841				
Combined Adjust. Factor	0.9999648704				

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)				
Latitude	35	3	11.8668060		
Longitude	92	5	5.3817180		
Ellipsoid Height:	59.352				
Grid Northing (Meters)	79,877.3891				
Grid Easting (Meters)	392,261.3750				

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA, GO SOUTH ON HWY-5 FOR 6.20 KM. (3.85 MI.) TO THE JUNCTION WITH HWY-319, CONTINUE SOUTH ON HWY-5 FOR 0.24 KM. (0.15 MI.) TO THE STATION ON THE LEFT. 41.8 METERS NORTH-NORTHWEST OF THE CENTER OF A GRAVEL DRIVEWAY, 11.10 METERS NORTHEAST OF THE CENTER OF HWY-5 AND 0.97 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430003A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER POST	343	4.85	15.9
MK # 2	6" (0.15 M) CEDAR TREE	147	20.10	65.9
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARLR Ref Mon # 3 ARPB, ARSC	SUPERCEDED GEOID HT. = -28.072m SUPERCEDED REF. MONUMENTS WERE 120009, 430001 & 730001 *****UPDATE D STATIC DERIVED ELEV. IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARLR & ARSC

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430004	Date Monumented 11/21/1996	Monumented By AHTD	County LONOKE	Route N/A	Job Number: R60121
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	608,323.0979	
Easting (M)	402,736.3930	
Elevation (M)*	70.029	
Northing (SFT)	1,995,806.6970	
Easting (SFT)	1,321,310.9827	
Elevation (SFT)*	229.753	

Convergence Angle	0	1	0.0687385
Scale Factor	0.999958060		
Elevation Adjust. Factor	0.9999890103		
Combined Adjust. Factor	0.9999470707		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 256,15 AND U.S. HIGHWAY 165 IN ENGLAND GO NORTH ON U.S. HWY-165 FOR 0.08 KM. (0.05 MI.) TO THE JUNCTION WITH "HAYWOOD ST." GO LEFT AND WEST ON "HAYWOOD ST." FOR 0.08 KM. (0.05 MI.) TO THE STATION ON THE RIGHT ON THE OLD RAILROAD RIGHT OF WAY. 47.15 METERS SOUTHWEST OF THE CENTER OF HWY-165 (MAIN STREET), 42.1 METERS NORTHEAST OF THE CENTER OF "ALLIS ST.", 13.90 METERS NORTH-NORTHWEST OF "HAYWOOD ST." AND 3.27 METERS NORTH-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430004 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PARKING SIGN	164	3.35	11.0
MK # 2	COMBINATION POLE	238	35.70	117.1
MK # 3	LIGHT POLE	53	40.35	132.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ADAMS 2 Ref Mon # 2 STUTPORT Ref Mon # 3 R 107	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK "L 53 1934" SET IN THE WEST WALL OF THE BANK OF ENGLAND. ELEVATION = 71.672 METERS. NAVD88 DATUM.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430004A	Date Monumented 11/21/1996	Monumented By AHTD	County LONOKE	Route N/A	Job Number: R60121
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	607,778.8849	
Easting (M)	402,937.7400	
Elevation (M)*	69.515	
Northing (SFT)	1,994,021.2249	
Easting (SFT)	1,321,971.5687	
Elevation (SFT)*	228.067	

Convergence Angle	0	1	4.4849324
Scale Factor	0.999957302		
Elevation Adjust. Factor	0.9999890909		
Combined Adjust. Factor	0.9999463934		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER OF BRICK HOUSE	239	26.75	87.8
MK # 2	LIGHT POLE	287	27.35	89.7
MK # 3	GUY POLE	313	20.70	67.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ADAMS 2	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK "L 53 1934" SET IN THE WEST WALL OF THE BANK OF ENGLAND. ELEVATION = 71.672 METERS. NAVD88 DATUM.
Ref Mon # 2 STUTPORT	
Ref Mon # 3 R 107	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430005	Date Monumented 11/21/1996	Monumented By AHTD	County LONOKE	Route 165	Job Number: R60121
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	608,532.4009	
Easting (M)	408,038.6090	
Elevation (M)*	68.143	
Northing (SFT)	1,996,493.3853	
Easting (SFT)	1,338,706.6697	
Elevation (SFT)*	223.566	

Convergence Angle	0	2	56.4657923
Scale Factor	0.999958349		
Elevation Adjust. Factor	0.9999893063		
Combined Adjust. Factor	0.9999476557		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	265	7.05	23.1
MK # 2	10 INCH ELM TREE	152	23.90	78.4
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 ADAMS 2 Ref Mon # 2 STUTPORT Ref Mon # 3 R 107	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING BY CREW S5101.</td> </tr> </table>	Comments	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING BY CREW S5101.
Comments			
ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING BY CREW S5101.			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 256, 15 AND U.S. HIGHWAY 165 IN ENGLAND GO EAST ON U.S.165 FOR 5.39 KM. (3.35 MI.) TO THE STATION ON THE LEFT. 42.0 METERS EAST OF A FIELD ENTRANCE, 13.0 METERS NORTH OF THE CENTER OF HWY-165 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430005 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 32 48.3272628
Longitude	91 54 44.7083640
Ellipsoid Height (M):	41.091
Geoid Height (M):	-27.052

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430005A	Date Monumented 11/21/1996	Monumented By AHTD	County LONOKE	Route 165	Job Number: R60121
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 608,543.4279		Latitude 34 32 48.6700296
Easting (M) 408,565.1350		Longitude 91 54 24.0564924
Elevation (M)* 66.936		Ellipsoid Height (M): 39.882
		Geoid Height (M): -27.054

Northing (SFT) 1,996,529.5630	Easting (SFT) 1,340,434.1137	Location Description
Elevation (SFT)* 219.606		<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 256, 15 AND U.S. HIGHWAY 165 IN ENGLAND GO EAST ON U.S. 165 FOR 5.96 KM. (3.70 MI.) TO THE STATION ON THE LEFT. 14.0 METERS NORTH OF THE CENTER OF U.S. 165, 8.0 METERS WEST OF A FIELD ENTRANCE AND 0.51 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430005A 1996" SET ON TOPOF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Convergence Angle 0 3 8.0244525		
Scale Factor 0.999958364		
Elevation Adjust. Factor 0.9999894957		
Combined Adjust. Factor 0.9999478601		

SUPERCEDED CONTROL			
Horizontal Datum		Latitude	
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	103	1.05	3.4	AZ Mark Station 430005
MK # 2	TELEPHONE JUNCTION BOX	181	27.30	89.6	Geodetic Azimuth 268 51 09.23612
MK # 3	NONE				Grid Azimuth 268 48 01.13537

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ADAMS 2</p> <p>Ref Mon # 2 STUTPORT</p> <p>Ref Mon # 3 R 107</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING BY CREW S5101.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430006	Date Monumented 11/21/1996	Monumented By AHTD	County LONOKE	Route 165	Job Number: R60121
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	608,396.9969	
Easting (M)	413,155.6710	
Elevation (M)*	63.559	
Northing (SFT)	1,996,049.1473	
Easting (SFT)	1,355,494.8973	
Elevation (SFT)*	208.526	

Convergence Angle	0	4	48.7926868
Scale Factor	0.999958151		
Elevation Adjust. Factor	0.9999900256		
Combined Adjust. Factor	0.9999481770		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/TBM-919	324	35.28	115.8
MK # 2	EAST END OF METAL PIPE	294	12.80	42.0
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ADAMS 2
Ref Mon # 2	STUTPORT
Ref Mon # 3	R 107

Comments
ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING BY CREW S5101.

Vertical Determined By: LEVEL - Unkown Quality	
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 32 43.7456256
Longitude	91 51 24.0137712
Ellipsoid Height (M):	36.487
Geoid Height (M):	-27.072

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 165 AND STATE HIGHWAY 13 IN HUMNOKE GO WEST ON U.S. 165 FOR 9.33 KM. (5.80 MI.) TO THE STATION ON THE LEFT. 17.6 METERS EAST OF A FIELD ENTRANCE, 13.5 METERS SOUTH OF THE CENTER OF U.S. 165 AND 1.60 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430006 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430006A	Date Monumented 11/21/1996	Monumented By AHTD	County LONOKE	Route 165	Job Number: R60121
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 608,370.2328		Latitude 34 32 42.8433252
Easting (M) 413,877.7730		Longitude 91 50 55.6933776
Elevation (M)* 63.214		Ellipsoid Height (M): 36.139
		Geoid Height (M): -27.075

Northing (SFT) 1,995,961.3388		
Easting (SFT) 1,357,863.9936		
Elevation (SFT)* 207.395		

Convergence Angle 0 5 4.6433473		
Scale Factor 0.999958112		
Elevation Adjust. Factor 0.9999900798		
Combined Adjust. Factor 0.9999481922		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 165 AND STATE HIGHWAY 13 IN HUMNOKE GO WEST ON U.S. 165 FOR 8.69 KM. (5.40 MI.) TO THE STATION ON THE LEFT. 16.15 METERS SOUTH OF THE CENTER OF U.S. 165, 8.25 METERS EAST OF "BUFFALO ROAD" AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430006A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	89	28.05	92.0
MK # 2	SQUARE CONCRETE ROAD SIGN	321	4.65	15.3
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ADAMS 2	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING BY CREW S5101.
Ref Mon # 2 STUTPORT	
Ref Mon # 3 R 107	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430007	Date Monumented 11/21/1996	Monumented By AHTD	County LONOKE	Route 165	Job Number: R60121
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	608,125.1919	
Easting (M)	417,294.1100	
Elevation (M)*	62.752	
Northing (SFT)	1,995,157.4004	
Easting (SFT)	1,369,072.4259	
Elevation (SFT)*	205.879	

Convergence Angle	0	6	19.6283488
Scale Factor	0.999957762		
Elevation Adjust. Factor	0.9999901523		
Combined Adjust. Factor	0.9999479147		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	216	56.06	183.9
MK # 2	SOUTHEAST CORNER OF METAL AIRPLANE HANGAR	286	27.21	89.3
MK # 3	NORTHEAST CORNER OF AIRPLANE HANGAR	318	41.64	136.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ADAMS 2	
Ref Mon # 2 STUTPORT	
Ref Mon # 3 R 107	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430007A	Date Monumented 11/21/1996	Monumented By AHTD	County LONOKE	Route 165	Job Number: R60121
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	608,104.3639	
Easting (M)	417,956.3350	
Elevation (M)*	61.957	
Northing (SFT)	1,995,089.0672	
Easting (SFT)	1,371,245.0757	
Elevation (SFT)*	203.271	

Convergence Angle	0	6	34.1641448
Scale Factor	0.999957731		
Elevation Adjust. Factor	0.9999902770		
Combined Adjust. Factor	0.9999480084		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF CONCRETE PIPE	175	45.50	149.3
MK # 2	POWER POLE W/TBM-926	158	44.16	144.9
MK # 3	POWER POLE	15	38.28	125.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ADAMS 2	
Ref Mon # 2 STUTPORT	
Ref Mon # 3 R 107	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 32 33.9907128
Longitude	91 48 15.7464648
Ellipsoid Height (M):	34.864
Geoid Height (M):	-27.093

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 165 AND STATE HIGHWAY 13 IN HUMNOKE GO WEST ON U.S. 165 FOR 4.43 KM. (2.75 MI.) TO THE JUNCTION WITH A GRAVEL DRIVEWAY ON THE RIGHT AND THE STATION AT THE EAST END OF A GRASS RUNWAY. 59.24 METERS NORTH OF THE CENTER OF U.S. 165, 6.94 METERS WEST OF THE GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430007A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430008	Date Monumented 11/21/1996	Monumented By AHTD	County LONOKE	Route 13	Job Number: R60121
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	607,297.3799	
Easting (M)	422,294.8170	
Elevation (M)*	60.529	
Northing (SFT)	1,992,441.4872	
Easting (SFT)	1,385,478.9121	
Elevation (SFT)*	198.586	

Convergence Angle	0	8	9.3569344
Scale Factor	0.999956602		
Elevation Adjust. Factor	0.9999905011		
Combined Adjust. Factor	0.9999471035		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	350	32.75	107.4
MK # 2	METAL DRAIN PIPE (CMP)	190	18.93	62.1
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 ADAMS 2 Ref Mon # 2 STUTPORT Ref Mon # 3 R 107	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS STATION MARK "HUMNOKE AZIMUTH MARK" ELEVATION = 60.685 METERS. NAVD88 DATUM.</td> </tr> </table>	Comments	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS STATION MARK "HUMNOKE AZIMUTH MARK" ELEVATION = 60.685 METERS. NAVD88 DATUM.
Comments			
ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS STATION MARK "HUMNOKE AZIMUTH MARK" ELEVATION = 60.685 METERS. NAVD88 DATUM.			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 165 AND STATE HIGHWAY 13 IN HUMNOKE GO SOUTH ON STATE HIGHWAY 13 FOR 0.72 KM. (0.45 MI.) TO THE STATION ON THE LEFT. 22.0 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY, 14.85 METERS EAST OF THE CENTER OF HWY-13 AND 1.00 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430008 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430008A	Date Monumented 11/21/1996	Monumented By AHTD	County LONOKE	Route 13	Job Number: R60121
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	606,793.8459	
Easting (M)	422,259.9630	
Elevation (M)*	61.087	
Northing (SFT)	1,990,789.4761	
Easting (SFT)	1,385,364.5619	
Elevation (SFT)*	200.416	

Convergence Angle	0	8	8.5657348
Scale Factor	0.999955913		
Elevation Adjust. Factor	0.9999904135		
Combined Adjust. Factor	0.9999463270		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF METAL DRAIN PIPE	95	2.80	9.2
MK # 2	SOUTH END OF METAL DRAIN PIPE	160	8.17	26.8
MK # 3	NORTHEAST CORNER OF WELL PUMP SHE	277	17.45	57.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ADAMS 2	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS STATION MARK "HUMNOKE AZIMUTH MARK" ELEVATION = 60.685 METERS. NAVD88 DATUM.
Ref Mon # 2 STUTPORT	
Ref Mon # 3 R 107	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430009	Date Monumented 1/19/1999	Monumented By AHTD	County LONOKE	Route 13	Job Number: 060778
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	614,418.7559	
Easting (M)	422,390.7850	
Elevation (M)*	61.129	
Northing (SFT)	2,015,805.5350	
Easting (SFT)	1,385,793.7671	
Elevation (SFT)*	200.554	

Convergence Angle	0	8	11.8360809
Scale Factor	0.999967013		
Elevation Adjust. Factor	0.9999904070		
Combined Adjust. Factor	0.9999574203		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	353	15.49	50.8
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	ALMYPORT
Ref Mon # 3	AHTD LR 1

Comments

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 35 58.6041396
Longitude	91 45 21.2359032
Ellipsoid Height (M):	34.673
Geoid Height (M):	-26.456

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 13 AND U.S. HIGHWAY 165, LOCATED IN HUMNOKE, GO NORTH ON STATE HIGHWAY 13 FOR 6.49 KM (4.03 MI) TO THE STATION ON THE RIGHT SET THE CENTER OF A ROAD ON TOP OF A LEVEE. THE STATION IS 27.19 METERS SOUTH THE CENTER OF A ROAD ON TOP OF AN EAST-WEST RUNNING LEVEE, 17.359 METERS EAST OF THE CENTER OF STATE HIGHWAY 13 AND 1.90 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430009 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430009A	Date Monumented 1/19/1999	Monumented By AHTD	County LONOKE	Route 13	Job Number: 060778
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	613,916.9029	
Easting (M)	422,384.2620	
Elevation (M)*	61.122	
Northing (SFT)	2,014,159.0389	
Easting (SFT)	1,385,772.3662	
Elevation (SFT)*	200.531	

Convergence Angle	0	8	11.6665201
Scale Factor	0.999966238		
Elevation Adjust. Factor	0.9999904081		
Combined Adjust. Factor	0.9999566464		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 13 AND U.S. HIGHWAY 165, LOCATED IN HUMNOKE, GO NORTH ON STATE HIGHWAY 13 FOR 5.99 KM (3.72 MI) TO THE STATION ON THE RIGHT SET IN THE CENTER OF A ROAD ON TOP OF A NORTH-SOUTH RINNING LEVEE. THE STATION IS 16.80 METERS EAST OF THE CENTER OF STATE HIGHWAY 13 AND 2.05 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430009A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				AZ Mark Station	420009
MK # 2	NONE				Geodetic Azimuth	0 52 52.792557
MK # 3	NONE				Grid Azimuth	0 44 41.127275

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	
Ref Mon # 2 ALMYPORT	
Ref Mon # 3 AHTD LR 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430010	Date Monumented 1/19/1999	Monumented By AHTD	County LONOKE	Route 13	Job Number: 060778
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	617,481.0240	
Easting (M)	422,440.7100	
Elevation (M)*	62.567	
Northing (SFT)	2,025,852.3262	
Easting (SFT)	1,385,957.5627	
Elevation (SFT)*	205.272	

Convergence Angle	0	8	13.0935333
Scale Factor	0.999971876		
Elevation Adjust. Factor	0.9999901813		
Combined Adjust. Factor	0.9999620576		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 13 AND U.S. HIGHWAY 165, LOCATED IN HUMNOKE, GO NORTH ON STATE HIGHWAY 13 FOR 9.40 KM (5.84 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.07 METERS EAST OF THE CENTER OF STATE HIGHWAY 13, 13.02 METERS NORTH OF THE CENTER OF A GRAVEL FIELD ENTRANCE ROAD, 1.44 METERS WEST OF THE CENTER OF A ROAD ON TOP OF A LEVEE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430010 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 BRINKLEYPORT</p> <p>Ref Mon # 2 ALMYPORT</p> <p>Ref Mon # 3 AHTD LR 1</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430010A	Date Monumented 1/19/1999	Monumented By AHTD	County LONOKE	Route 13	Job Number: 060778
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	616,874.6540	
Easting (M)	422,426.7970	
Elevation (M)*	62.185	
Northing (SFT)	2,023,862.9273	
Easting (SFT)	1,385,911.9165	
Elevation (SFT)*	204.019	

Convergence Angle	0	8	12.7559914
Scale Factor	0.999970895		
Elevation Adjust. Factor	0.9999902412		
Combined Adjust. Factor	0.9999611365		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	ALMYPORT
Ref Mon # 3	AHTD LR 1

Comments

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 34 37 18.3021204

Longitude 91 45 19.5922980

Ellipsoid Height (M): 35.693

Geoid Height (M): -26.492

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 13 AND U.S. HIGHWAY 165, LOCATED IN HUMNOKE, GO NORTH ON STATE HIGHWAY 13 FOR 8.79 KM (5.46 MI) TO THE STATION ON THE RIGHT SET WEST OF THE EXTENDED CENTER OF A EAST-WEST RUNNING LEVEE ROAD. THE STATION IS 18.35 METERS EAST OF THE CENTER OF STATE HIGHWAY 13, 2.00 METERS WEST OF THE CENTER OF A NORTH-SOUTH RUNNING LEVEE ROAD AND 1.48 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430010A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	430010
Geodetic Azimuth	1 27 04.430265
Grid Azimuth	1 18 51.676833

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430011	Date Monumented 1/19/1999	Monumented By AHTD	County LONOKE	Route 13	Job Number: 060778
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	624,488.3750	
Easting (M)	422,521.7510	
Elevation (M)*	65.241	
Northing (SFT)	2,048,842.2770	
Easting (SFT)	1,386,223.4447	
Elevation (SFT)*	214.045	

Convergence Angle	0	8	15.2439450
Scale Factor	0.999983881		
Elevation Adjust. Factor	0.9999897617		
Combined Adjust. Factor	0.9999736428		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	56	31.10	102.0
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	
Ref Mon # 2 ALMYPORT	
Ref Mon # 3 AHTD LR 1	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 41 25.3774032
Longitude	91 45 15.1470684
Ellipsoid Height (M):	38.628
Geoid Height (M):	-26.613

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 13 AND U.S. HIGHWAY 165, LOCATED IN HUMNOKE, GO NORTH ON STATE HIGHWAY 13 FOR 15.93 KM (9.90 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.90 METERS WEST OF THE CENTER OF STATE HIGHWAY 13 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430011 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	430011A
Geodetic Azimuth	3 48 49.973815
Grid Azimuth	3 40 34.737297

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430011A	Date Monumented 1/19/1999	Monumented By AHTD	County LONOKE	Route 13	Job Number: 060778
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	625,087.3220	
Easting (M)	422,560.2350	
Elevation (M)*	67.594	
Northing (SFT)	2,050,807.3223	
Easting (SFT)	1,386,349.7043	
Elevation (SFT)*	221.765	

Convergence Angle	0	8	16.1218673
Scale Factor	0.999984963		
Elevation Adjust. Factor	0.9999893924		
Combined Adjust. Factor	0.9999743556		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	4	22.67	74.4
MK # 2	POWER POLE WITH METER	159	29.75	97.6
MK # 3	COMBINATION POLE	175	31.50	103.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPOR	
Ref Mon # 2 ALMYPORT	
Ref Mon # 3 AHTD LR 1	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 41 44.8113444
Longitude	91 45 13.5784836
Ellipsoid Height (M):	40.971
Geoid Height (M):	-26.623

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 13 AND U.S. HIGHWAY 165, LOCATED IN HUMNOKE, GO NORTH ON STATE HIGHWAY 13 FOR 16.53 KM (10.27 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.20 METERS EAST OF THE CENTER OF STATE HIGHWAY 13 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430011A 1999" SET ON TO OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430012	Date Monumented 3/3/1999	Monumented By AHTD	County LONOKE	Route 5	Job Number: 001748, 060906
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	77,011.5279 0.0020
Easting (M)	393,626.6285 0.0020
Elevation (M)*	125.004

Northing (SFT)	252,661.9878
Easting (SFT)	1,291,423.3637
Elevation (SFT)*	410.117

Convergence Angle	0 2 26.3044936
Scale Factor	0.999982830
Elevation Adjust. Factor	0.9999803832
Combined Adjust. Factor	0.9999632135

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	1	38.9217072
Longitude	92	4	11.4193956
Ellipsoid Height:	97.759		
Grid Northing (Meters)	77,012.0790		
Grid Easting (Meters)	393,626.7930		

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 5 AND STATE HIGHWAY 319, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF EL PASO, GO SOUTH ON STATE HIGHWAY 5 FOR 3.54 KM (2.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 20.37 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVEWAY, 11.63 METERS EAST OF THE CENTER OF STATE HIGHWAY 5 AND 1.00 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430012 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARBT</p> <p>Ref Mon # 2 ARLR</p> <p>Ref Mon # 3 ARPB, ARSC</p>	<p style="text-align: center;">Comments</p> <p>SUPERCEDED GEOID HT. = 27.245m SUPERCEDED REF. MONUMENTS WERE 430002 & 430003 *****UPDATE D STATIC DERIVED ELEV. IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARLR & ARSC</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430012A	Date Monumented 3/3/1999	Monumented By AHTD	County LONOKE	Route 5	Job Number: 001748
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Vertical Determined By:</td> <td colspan="2">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>1 29.7617916</td> </tr> <tr> <td>Longitude</td> <td>92</td> <td>4 18.8694552</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>87.582</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-27.241</td> <td></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	35	1 29.7617916	Longitude	92	4 18.8694552	Ellipsoid Height (M):	87.582		Geoid Height (M):	-27.241	
Vertical Determined By:	LEVEL - Unkown Quality																						
Elevation Datum:	NAVD 88																						
Geoid Datum:																							
Latitude	35		1 29.7617916																				
Longitude	92		4 18.8694552																				
Ellipsoid Height (M):	87.582																						
Geoid Height (M):	-27.241																						
Horizontal Datum NAD 83 (1986)																							
Northing (M)	76,729.9391																						
Easting (M)	393,437.7360																						
Elevation (M)*	114.823																						
Northing (SFT)	251,738.1419																						
Easting (SFT)	1,290,803.6389																						
Elevation (SFT)*	376.715																						

Convergence Angle	0	2	30.6359103
Scale Factor	0.999983258		
Elevation Adjust. Factor	0.9999819809		
Combined Adjust. Factor	0.9999652392		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks											
Description		Azimuth	Distance		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">AZ Mark Station</td> <td>430012</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>33 47 00.694220</td> </tr> <tr> <td>Grid Azimuth</td> <td>33 49 31.300501</td> </tr> </table>	AZ Mark Station	430012	Geodetic Azimuth	33 47 00.694220	Grid Azimuth	33 49 31.300501
AZ Mark Station	430012										
Geodetic Azimuth	33 47 00.694220										
Grid Azimuth	33 49 31.300501										
			Meters	Feet							
MK # 1	NONE										
MK # 2	NONE										
MK # 3	NONE										

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430013	Date Monumented 11/14/2000	Monumented By AHTD	County LONOKE	Route 89	Job Number: 060897
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	51,185.8712
Easting (M)	407,813.4400
Elevation (M)*	72.330
Northing (SFT)	167,932.3124
Easting (SFT)	1,337,967.9277
Elevation (SFT)*	237.303

Convergence Angle	0	2	58.8480566
Scale Factor	1.000030155		
Elevation Adjust. Factor	0.9999886492		
Combined Adjust. Factor	1.0000188039		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 89 AND I-40, LOCATED ON THE NORTHEAST SIDE OF LONOKE, GO SOUTH ON STATE HIHWAY 89 FOR 0.98 KM (0.61 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.89 METERS SOUTH OF THE CENTER OF A PAVED DRIVEWAY, 13.65 METERS NORTH OF THE CENTER OF A PAVED DRIVEWAY, 10.80 METERS WEST OF THE CENTER OF STATE HIGHWAY 89, 5.50 METERS SOUTHEAST OF A WATER METERS COVER AND 0.93 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430013 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 550.979 METERS.</p>				

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	SOUTH END CMP		31	11.39	37.4
MK # 2	NORTH END CMP		197	9.60	31.5
MK # 3	END OF A PIPE FENCE		287	1.25	4.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEARPORT Ref Mon # 2 PAGIS 1001 Ref Mon # 3 ALMYPORT	ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM U.S.C.&G.S. BENCH MARK J 107. Station Elevation was confirmed on 2/26/07 by crew S5111 from J 107.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430013A	Date Monumented 11/14/2000	Monumented By AHTD	County LONOKE	Route 89	Job Number: 060897
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	51,735.7370	
Easting (M)	407,848.6619	
Elevation (M)*	72.575	
Northing (SFT)	169,736.3305	
Easting (SFT)	1,338,083.4849	
Elevation (SFT)*	238.106	

Convergence Angle	0	2	59.6652419
Scale Factor	1.000028977		
Elevation Adjust. Factor	0.9999886107		
Combined Adjust. Factor	1.0000175874		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END CMP	202	9.58	31.4
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	SEARPORT
Ref Mon # 2	PAGIS 1001
Ref Mon # 3	ALMYPORT

Comments
ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM U.S.C.&G.S. BENCH MARK J 107. Station Elevation was confirmed on 2/26/07 by crew S5111 from J 107.

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 89 AND I-40, LOCATED ON THE NORTHEAST SIDE OF LONOKE, GO SOUTH ON STATE HIHGWAY 89 FOR 0.40 KM (0.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.80 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE, 12.60 METERS EAST OF THE CENTER OF STATE HIGHWAY 89, 9.00 METERS SOUTH OF THE EXTENDED CENTER OF A GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430013A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 550.979 METERS.

AZ Mark Station	430013
Geodetic Azimuth	183 42 53.99043
Grid Azimuth	183 39 54.33306

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430014	Date Monumented 1/9/2003	Monumented By AHTD	County LONOKE	Route 67	Job Number: 061072,061383
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	70,072.0351	
Easting (M)	395,659.7980	
Elevation (M)*	82.752	
Northing (SFT)	229,894.6685	
Easting (SFT)	1,298,093.8539	
Elevation (SFT)*	271.495	

Convergence Angle	0	1	39.5550144
Scale Factor	0.999993942		
Elevation Adjust. Factor	0.9999870137		
Combined Adjust. Factor	0.9999809558		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH EAST OF SOUTH BOUND LANE BRI		6.15	20.2
MK # 2	NORTH WEST OF NORTH BOUND LANE BRI		6.55	21.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LROC	ELEVATION ESTABLISHED FROM DIGITAL LEVELS BY S5111 IN JUNE 2011 FROM 1ST ORDER NGS BM RV 152 TO 1ST ORDER NGS BM RV 135 UNDER P.E. JOB 061261.
Ref Mon # 2 480016, Butler	
Ref Mon # 3 Russport	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430014A	Date Monumented 1/9/2003	Monumented By AHTD	County LONOKE	Route 67	Job Number: 61072,061383,061509, 06137
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	70,639.1320
Easting (M)	396,142.4990
Elevation (M)*	84.849
Northing (SFT)	231,755.2189
Easting (SFT)	1,299,677.5155
Elevation (SFT)*	278.375

Convergence Angle	0	1	28.4884605
Scale Factor	0.999992989		
Elevation Adjust. Factor	0.9999866846		
Combined Adjust. Factor	0.9999796737		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	AHTD TRAFFIC COUNTER BOX	242	24.10	79.1		
MK # 2	POWER POLE	211	26.15	85.8		
MK # 3	EDGE OF CONC ON NORTH BOUND LANE		24.75	81.2		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LROC	ELEVATION ESTABLISHED FROM DIGITAL LEVELS BY S5111 IN JUNE 2011 FROM 1ST ORDER NGS BM RV 152 TO 1ST ORDER NGS BM RV 135 UNDER P.E. JOB 061261.
Ref Mon # 2 480016, Butler	
Ref Mon # 3 Russport	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430015	Date Monumented 1/15/2003	Monumented By AHTD	County LONOKE	Route 89	Job Number: 061085
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	71,434.8811	
Easting (M)	387,927.4750	
Elevation (M)*		
Northing (SFT)	234,365.9391	
Easting (SFT)	1,272,725.3909	
Elevation (SFT)*		

Convergence Angle	0	4	36.9599064
Scale Factor	0.999991678		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	138	8.90	29.2
MK # 2	POWER POLE WITH GUY	195	29.15	95.6
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD LROC Ref Mon # 2 AHTD MON 1 Ref Mon # 3 BUTLER	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV DETERMINED IN JOB 061085</td> </tr> </table>	Comments	ELEV DETERMINED IN JOB 061085
Comments			
ELEV DETERMINED IN JOB 061085			

Location Description
TO REACH THE STATION FROM U.S. STATE HIGHWAY 89 AND HIGHWAY 107, NORTH OF NORTH LITTLE ROCK, GO SOUTH ON HIGHWAY 89 0.70 MILES TO THE STATION ON THE RIGHT, 5.50 METERS SOUTH OF THE CENTER OF THE HIGHWAY, EAST 10.35 METERS OF A GRAVEL DRIVE AND NORTH 6.60 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "430015 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430015A	Date Monumented 1/15/2003	Monumented By AHTD	County LONOKE	Route 89	Job Number: 061085
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	71,515.1251	
Easting (M)	387,378.8650	
Elevation (M)*		
Northing (SFT)	234,629.2063	
Easting (SFT)	1,270,925.4929	
Elevation (SFT)*		

Convergence Angle	0	4	49.5483237
Scale Factor	0.999991546		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE AND TELEPHONE RIS	141	10.10	33.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LROC	ELEV DETERMINED IN JOB 061085
Ref Mon # 2 AHTD MON 1	
Ref Mon # 3 BUTLER	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430016	Date Monumented 8/6/2003	Monumented By AHTD	County LONOKE	Route 67	Job Number: 061102,061383,061384
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Vertical Determined By:</td> <td colspan="3">3rd Order - Digital Levels</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="3">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="3">Geoid 96</td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>0</td> <td>10.8140544</td> </tr> <tr> <td>Longitude</td> <td>91</td> <td>59</td> <td>38.5940292</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td colspan="2">54.806</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td colspan="2">-27.162</td> <td></td> </tr> </table>	Vertical Determined By:	3rd Order - Digital Levels			Elevation Datum:	NAVD 88			Geoid Datum:	Geoid 96			Latitude	35	0	10.8140544	Longitude	91	59	38.5940292	Ellipsoid Height (M):	54.806			Geoid Height (M):	-27.162		
Vertical Determined By:	3rd Order - Digital Levels																													
Elevation Datum:	NAVD 88																													
Geoid Datum:	Geoid 96																													
Latitude	35		0	10.8140544																										
Longitude	91		59	38.5940292																										
Ellipsoid Height (M):	54.806																													
Geoid Height (M):	-27.162																													
Horizontal Datum NAD 83 (1997)																														
Northing (M)	74,294.6711																													
Easting (M)	400,542.7820																													
Elevation (M)*	82.029																													
Northing (SFT)	243,748.4334																													
Easting (SFT)	1,314,114.1106																													
Elevation (SFT)*	269.123																													

Convergence Angle	0	0	12.4561157
Scale Factor	0.999987037		
Elevation Adjust. Factor	0.9999871272		
Combined Adjust. Factor	0.9999741644		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 67 AND EXIT 22 (HIGHWAY 305), WEST OF AUSTIN, GO SOUTH ON 67 0.4 MILES TO THE STATION IN THE MEDIAN, 12.85 METERS FROM THE SOUTH BOUND CENTERLINE, 12.80 METERS FROM THE NORTH BOUND CENTERLINE AND SOUTHEAST 0.50 METERS FROM A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430016 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	430016A
Geodetic Azimuth	231 23 28
Grid Azimuth	231 23 16

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER Ref Mon # 2 MEM2 CORS Ref Mon # 3 430014	ELEVATION ESTABLISHED FROM DIGITAL LEVELS BY S5111 IN JUNE 2011 FROM 1ST ORDER NGS BM RV 152 TO 1ST ORDER NGS BM RV 135 UNDER P.E. JOB 061261.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430016A	Date Monumented 8/6/2003	Monumented By AHTD	County LONOKE	Route 67	Job Number: 61102,061383,061102, 06137
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 73,724.7720		Geoid Datum: Geoid 96
Easting (M) 399,829.1960		Latitude 34 59 52.3211892
Elevation (M)* 75.956		Longitude 92 0 6.7356576
Northing (SFT) 241,878.6895		Ellipsoid Height (M): 48.753
Easting (SFT) 1,311,772.9539		Geoid Height (M): -27.155
Elevation (SFT)* 249.200		

Convergence Angle 0 0 3.9194733	Location Description TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 67 AND EXIT 22 (HIGHWAY 305), WEST OF AUSTIN, GO SOUTH ON 67 0.9 MILES TO THE STATION IN THE MEDIAN, 12.85 METERS FROM THE SOUTH BOUND CENTERLINE, 12.90 METERS FROM THE NORTH BOUND CENTERLINE AND SOUTHEAST 0.50 METERS FROM A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430016A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.
Scale Factor 0.999987943	
Elevation Adjust. Factor 0.9999880801	
Combined Adjust. Factor 0.9999760233	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station 430016
MK # 2					Geodetic Azimuth 51 23 12
MK # 3					Grid Azimuth 51 23 16

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER	ELEVATION ESTABLISHED FROM DIGITAL LEVELS BY S5111 IN JUNE 2011 FROM 1ST ORDER NGS BM RV 152 TO 1ST ORDER NGS BM RV 135 UNDER P.E. JOB 061261.
Ref Mon # 2 MEM2 CORS	
Ref Mon # 3 430014	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430017	Date Monumented 8/6/2003	Monumented By AHTD	County LONOKE	Route 38	Job Number: 061102,061383,061384,061102
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 71,974.6921		Geoid Datum: Geoid 09
Easting (M) 400,346.6790		Latitude 34 58 55.5305736
Elevation (M)* 78.991		Longitude 91 59 46.3313724
Northing (SFT) 236,136.9690		Ellipsoid Height (M): 51.805
Easting (SFT) 1,313,470.7294		Geoid Height (M): -27.119
Elevation (SFT)* 259.156		

Convergence Angle 0 0 7.9537625	
Scale Factor 0.999990776	
Elevation Adjust. Factor 0.9999876039	
Combined Adjust. Factor 0.9999783800	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	265	15.45	50.7
MK # 2	GUY	287	16.25	53.3
MK # 3	NORTHEAST CORNER OF MIDDLE SCHOOL SITE	275	29.30	96.1

Area Reference Monuments (used for Processing) Ref Mon # 1 BUTLER Ref Mon # 2 MEM2 CORS Ref Mon # 3 430014	Comments ELEV. ESTABLISHED BY DIGITAL LEVELS FROM 1ST ORDER NGS BM RV 137 IN JULY 2012 BY S5114. ELEVATION UPDATED FROM 259.1880 TO 259.1560 BASED ON LEVEL RUN FROM NGS BM RV 135 AND GPS MON 430016 BY GARVER DURING JOB 061102 IN FEBRUARY 2014.
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AZ Mark Station 430017A	
Geodetic Azimuth 92 17 48	
Grid Azimuth 92 17 39	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430017A	Date Monumented 8/6/2003	Monumented By AHTD	County LONOKE	Route 38	Job Number: 02,061261,061334,061383.06
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Vertical Determined By:</td> <td colspan="2">3rd Order - Digital Levels</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2">Geoid 09</td> </tr> <tr> <td>Latitude</td> <td>34</td> <td>58 54.6624516</td> </tr> <tr> <td>Longitude</td> <td>91</td> <td>59 20.0543532</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>59.934</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-27.116</td> <td></td> </tr> </table>	Vertical Determined By:	3rd Order - Digital Levels		Elevation Datum:	NAVD 88		Geoid Datum:	Geoid 09		Latitude	34	58 54.6624516	Longitude	91	59 20.0543532	Ellipsoid Height (M):	59.934		Geoid Height (M):	-27.116	
Vertical Determined By:	3rd Order - Digital Levels																						
Elevation Datum:	NAVD 88																						
Geoid Datum:	Geoid 09																						
Latitude	34		58 54.6624516																				
Longitude	91		59 20.0543532																				
Ellipsoid Height (M):	59.934																						
Geoid Height (M):	-27.116																						
Horizontal Datum NAD 83 (1997)																							
Northing (M)	71,947.9900																						
Easting (M)	401,013.1490																						
Elevation (M)*	87.109																						
Northing (SFT)	236,049.3639																						
Easting (SFT)	1,315,657.3063																						
Elevation (SFT)*	285.789																						
Convergence Angle	0 0 23.2443370																						
Scale Factor	0.999990819																						
Elevation Adjust. Factor	0.9999863300																						
Combined Adjust. Factor	0.9999771491																						

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	TELEPHONE RISER		89	22.10	72.5
MK # 2	UNITED METHODIST CHURCH SIGN		255	5.45	17.9
MK # 3	TELEPHONE POLE		264	22.60	74.1

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>BUTLER</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MEM2 CORS</td> </tr> <tr> <td>Ref Mon # 3</td> <td>430014</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	BUTLER	Ref Mon # 2	MEM2 CORS	Ref Mon # 3	430014	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BASED ON LEVEL RUN BY GARVER FROM NGS BM RV 135 AND GPS MON 430016 DURING JOB 061102 IN FEBRUARY 2014.</td> </tr> </table>	Comments	ELEVATION BASED ON LEVEL RUN BY GARVER FROM NGS BM RV 135 AND GPS MON 430016 DURING JOB 061102 IN FEBRUARY 2014.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	BUTLER										
Ref Mon # 2	MEM2 CORS										
Ref Mon # 3	430014										
Comments											
ELEVATION BASED ON LEVEL RUN BY GARVER FROM NGS BM RV 135 AND GPS MON 430016 DURING JOB 061102 IN FEBRUARY 2014.											

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430018	Date Monumented 2/14/2007	Monumented By AHTD	County LONOKE	Route 89	Job Number: 060897
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	52,034.4890	
Easting (M)	407,846.6910	
Elevation (M)*	75.907	
Northing (SFT)	170,716.4860	
Easting (SFT)	1,338,077.0187	
Elevation (SFT)*	249.038	

Convergence Angle	0	2	59.6260811
Scale Factor	1.000028341		
Elevation Adjust. Factor	0.9999880879		
Combined Adjust. Factor	1.0000164285		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	End of guard rail	346	1.89	6.2	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 430013 Ref Mon # 2 Q 205 Ref Mon # 3 ARLR	Comments 3-wire levels ran by crew S5111 on 2/26/07 from NGS mark J 107.
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Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 48 8.3583792
Longitude	91 54 51.3106200
Ellipsoid Height (M):	49.149
Geoid Height (M):	-26.743

Location Description
To reach the station from the junction of highways 89 and 31 in Lonoke go north on Hwy-89 for 2.0 miles to the station on the right just before crossing over the interstate 16.6 feet east of the center of hwy-89 and 1.50 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped " 430018 2007" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

AZ Mark Station	430018A
Geodetic Azimuth	280 10 03
Grid Azimuth	280 07 03

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430018A	Date Monumented 2/14/2007	Monumented By AHTD	County LONOKE	Route I 40	Job Number: 060897
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	52,121.3719	
Easting (M)	407,359.7960	
Elevation (M)*	72.666	
Northing (SFT)	171,001.5343	
Easting (SFT)	1,336,479.5974	
Elevation (SFT)*	238.405	

Convergence Angle	0	2	48.4817333
Scale Factor	1.000028155		
Elevation Adjust. Factor	0.9999885965		
Combined Adjust. Factor	1.0000167512		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Underground cable marker	265	20.21	66.3
MK # 2	Concrete drain pipe	343	26.70	87.6
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 430013 Ref Mon # 2 Q 205 Ref Mon # 3 ARLR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire levels ran by crew S5111 on 2/26/07 from NGS mark J 107.</td> </tr> </table>	Comments	3-wire levels ran by crew S5111 on 2/26/07 from NGS mark J 107.
Comments			
3-wire levels ran by crew S5111 on 2/26/07 from NGS mark J 107.			

Location Description	
To reach the station from the highway 89 bridge over I 40 northwest of Lonoke go west on I 40 for 0.30 miles to the station mark on the south side of the interstate near the right of way fence. The station mark is a 2 1/2 inch cap stamped "430018A 2007" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface. The station is 7.2 feet north of a witness post.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430019	Date Monumented 12/14/2020	Monumented By ARDOT	County LONOKE	Route 381	Job Number: 06X122
--------------------------	--------------------------------------	-------------------------------	-------------------------	---------------------	------------------------------

Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	632,746.8586 0.0030
Easting (M)	417,659.4674 0.0030
Elevation (M)*	

Northing (SFT)	2,075,936.9853	
Easting (SFT)	1,370,271.1026	
Elevation (SFT)*		

Convergence Angle	0	6	28.6668293
Scale Factor	0.999999616		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 381, EAST OF LONOKE, GO SOUTH ON STATE HIGHWAY 381 1.0 MILE TO THE MARK ON THE LEFT, EAST 38.8' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "430019 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER WELL	159	7.19	23.6
MK # 2	COMBINATION POLE W/LIGHT	248	27.16	89.1
MK # 3				

AZ Mark Station	430019A
Geodetic Azimuth	
Grid Azimuth	

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARLR</p> <p>Ref Mon # 2 ARPB</p> <p>Ref Mon # 3 ARWY</p>	<p style="text-align: center; margin: 0;">Comments</p> <div style="border: 1px solid black; height: 100px; margin-top: 5px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430019A	Date Monumented 12/14/2020	Monumented By ARDOT	County LONOKE	Route 381	Job Number: 06X122
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	633,222.7359	0.0030			
Easting (M)	417,671.2183	0.0030			
Elevation (M)*					
Northing (SFT)	2,077,498.2594				
Easting (SFT)	1,370,309.6554				
Elevation (SFT)*					

Convergence Angle	0	6	28.9452020
Scale Factor	1.000000573		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS TEST STATION	256	18.23	59.8
MK # 2	POWER POLE	287	76.90	252.3
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARPB</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARWY</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	ARPB	Ref Mon # 3	ARWY	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARLR						
Ref Mon # 2	ARPB						
Ref Mon # 3	ARWY						

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	34 46 9.1573104
Longitude	91 48 25.0711560
Ellipsoid Height (M):	43.401 0.0050
Geoid Height (M):	-26.821 0.0050

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 381, EAST OF LONOKE, GO SOUTH ON STATE HIGHWAY 381 0.7 MILES TO THE MARK ON THE LEFT, EAST 35.2' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "430019A 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430020	Date Monumented 12/14/2020	Monumented By ARDOT	County LONOKE	Route 31	Job Number: 06X131
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	606,114.2860	0.0020			
Easting (M)	411,536.4749	0.0020			
Elevation (M)*					
Northing (SFT)	1,988,559.9533				
Easting (SFT)	1,350,182.5847				
Elevation (SFT)*					

Convergence Angle	0	4	13.1866971
Scale Factor	0.999955020		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	41	21.79	71.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	
Ref Mon # 2 ARPB	
Ref Mon # 3 ARWY	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	34 31 29.7323220
Longitude	91 52 27.6310344
Ellipsoid Height (M):	39.826 0.0090
Geoid Height (M):	-26.348 0.0090

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND STATE HIGHWAY 31, NORTH OF COY, GO SOUTH ON STATE HIGHWAY 31 1.45 MILES TO THE MARK ON THE RIGHT, WEST 22.4' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "430020 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430020A	Date Monumented 12/14/2020	Monumented By ARDOT	County LONOKE	Route 31	Job Number: 06X131
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	606,481.1817 0.0020
Easting (M)	411,547.0258 0.0020
Elevation (M)*	

Northing (SFT)	1,989,763.6770	
Easting (SFT)	1,350,217.2005	
Elevation (SFT)*		

Convergence Angle	0	4	13.4281469
Scale Factor	0.999955515		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND STATE HIGHWAY 31, NORTH OF COY, GO SOUTH ON STATE HIGHWAY 31 1.2 MILES TO THE MARK ON THE RIGHT, WEST 26.9' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "430020A 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	130	21.43	70.3
MK # 2	TELEPHONE BOX	40	28.38	93.1
MK # 3				

AZ Mark Station	430020
Geodetic Azimuth	
Grid Azimuth	

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARPB</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARWY</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	ARPB	Ref Mon # 3	ARWY	<div style="border: 1px solid black; height: 100px; margin: 5px 0;"></div> <p style="text-align: center; margin: 0;">Comments</p>
Ref Mon # 1	ARLR						
Ref Mon # 2	ARPB						
Ref Mon # 3	ARWY						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430021	Date Monumented 12/14/2020	Monumented By ARDOT	County LONOKE	Route 13	Job Number: 06X282
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	602,265.6696 0.0020
Easting (M)	422,200.1675 0.0020
Elevation (M)*	

Northing (SFT)	1,975,933.2843	
Easting (SFT)	1,385,168.3829	
Elevation (SFT)*		

Convergence Angle	0	8	7.0186767
Scale Factor	0.999950004		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND STATE HIGHWAY 13, IN HOMNOKE, GO SOUTH ON STATE HIGHWAY 13 3.55 MILES TO THE MARK ON THE LEFT, EAST 24.3' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "430021 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	164	17.43	57.2	
MK # 2					
MK # 3					

AZ Mark Station	430021A
Geodetic Azimuth	
Grid Azimuth	

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARLR</p> <p>Ref Mon # 2 ARPB</p> <p>Ref Mon # 3 ARWY</p>	<p style="text-align: center; margin: 0;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430021A	Date Monumented 12/14/2020	Monumented By ARDOT	County LONOKE	Route 13	Job Number: 06X282
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	602,743.9043	0.0020			
Easting (M)	422,187.5286	0.0020			
Elevation (M)*					
Northing (SFT)	1,977,502.2927				
Easting (SFT)	1,385,126.9167				
Elevation (SFT)*					

Convergence Angle	0	8	6.7661692
Scale Factor	0.999950604		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END CMP	63	7.13	23.4
MK # 2	COMBINATION POLE W/2 GUYS	81	26.12	85.7
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARPB</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARWY</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	ARPB	Ref Mon # 3	ARWY	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARLR						
Ref Mon # 2	ARPB						
Ref Mon # 3	ARWY						

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 34 29 39.7302396

Longitude 91 45 30.2943204

Ellipsoid Height (M): 34.219 0.0100

Geoid Height (M): -26.405 0.0100

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND STATE HIGHWAY 13, IN HOMNOKE, GO SOUTH ON STATE HIGHWAY 13 3.25 MILES TO THE MARK ON THE RIGHT, WEST 49.3' OF THE C/L OF THE HIGHWAY AND 19.8' SOUTH OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "430021A 2020" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430022	Date Monumented 3/16/2021	Monumented By ARDOT	County LONOKE	Route 5	Job Number: 060906
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	76,730.4871 0.0020
Easting (M)	393,437.6619 0.0030
Elevation (M)*	

Northing (SFT)	251,739.9398		
Easting (SFT)	1,290,803.3958		
Elevation (SFT)*			

Convergence Angle	0	2	30.6376217
Scale Factor	0.999983257		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE	330	4.63	15.2
MK # 2	18" CMP	175	3.11	10.2
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARBT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARPB</td> </tr> </table>	Ref Mon # 1	ARBT	Ref Mon # 2	ARLR	Ref Mon # 3	ARPB	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARBT						
Ref Mon # 2	ARLR						
Ref Mon # 3	ARPB						

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 1 29.7795720
Longitude	92 4 18.8723964
Ellipsoid Height (M):	88.173 0.0080
Geoid Height (M):	-27.355 0.0080

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 5 AND STATE HIGHWAY 319, LOCATED ABOUT 5.00 MI) SOUTH OF EL PASO, GO SOUTH ON STATE HIGHWAY 5 FOR 2.41 MI TO THE STATION ON THE RIGHT. THE STATION IS 46' WEST OF THE CENTER OF STATE HIGHWAY 5. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "430022 2021" SET ON TOP OF AN IRON ROD 4' LONG AND DRIVEN BELOW SURFACE OF THE GROUND.

AZ Mark Station	430012
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440001	Date Monumented 2/23/1994	Monumented By AHTD	County MADISON	Route N/A	Job Number: R90018
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	165,555.6369	
Easting (M)	224,067.9740	
Elevation (M)*	699.916	
Northing (SFT)	543,160.4521	
Easting (SFT)	735,129.6780	
Elevation (SFT)*	2,296.308	

Convergence Angle	-1	7	58.2860089
Scale Factor	0.999943667		
Elevation Adjust. Factor	0.9998901724		
Combined Adjust. Factor	0.9998338456		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>DENNIS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NELSON</td> </tr> <tr> <td>Ref Mon # 3</td> <td>BIEHL</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	DENNIS	Ref Mon # 2	NELSON	Ref Mon # 3	BIEHL	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	DENNIS										
Ref Mon # 2	NELSON										
Ref Mon # 3	BIEHL										
Comments											

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	35 48 35.7270624
Longitude	93 56 48.5790000
Ellipsoid Height (M):	671.220
Geoid Height (M):	-28.696

Location Description
<p>FROM THE JCT. OF HWY. 16 AND HWY. 295 IN THE VILLAGE OF CROSSES, LOCATED ABOUT 35.4 KM. BY ROAD SOUTHEAST OF FAYETTEVILLE, GO SOUTH ON HWY. 295 FOR 8.85 KM (5.50 MILES) TO A "T" JCT. AND CO. RD. NO. 1 ON THE LEFT AND CO. RD. NO. 126 ON THE RIGHT, TURN LEFT ON CO. RD. NO. 1 AND GO 0.97 KM (0.60 MILES) TO THE STATION ON THE RIGHT IN AN EAST-WEST FENCE LINE. THE STATION IS 15.70 METERS WEST OF A FENCE, 23.70 METERS WEST OF THE CENTER OF CO. RD. NO. 1 AND 1.0 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "440001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440002	Date Monumented 2/23/1994	Monumented By AHTD	County MADISON	Route 295	Job Number: R90018
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	169,174.3710				
Easting (M)	225,028.1730				
Elevation (M)*	490.825				
Northing (SFT)	555,032.9155				
Easting (SFT)	738,279.9309				
Elevation (SFT)*	1,610.315				

Convergence Angle	-1	7	37.6833701
Scale Factor	0.999946077		
Elevation Adjust. Factor	0.9999229795		
Combined Adjust. Factor	0.9998690606		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>FROM THE JCT. OF HWY. 16 AND HWY. 295 IN THE VILLAGE OF CROSSES, LOCATED ABOUT 35.4 KM BY ROAD SOUTHEAST OF FAYETTEVILLE, GO SOUTH ON HWY. 295 FOR 4.82 KM (3.0 MILES) TO A MOBILE HOME AND FIELD ROAD ON THE RIGHT, TURN RIGHT (WEST) ONTO THE FIELD ROAD PASSING BY THE MOBILE HOME AND THEN CROSSING A CATTLE GUARD FOR 0.16 KM (0.10 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 16.00 METERS NORTHEAST OF THE MAIN DRIVEWAY, 8.00 METERS SOUTHEAST OF A ROAD TO A BARN AND 1.43 METERS SOUTHWEST OF A POWER POLE WITH A WITNESS POST DRIVEN IN FRONT OF IT. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "440002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 DENNIS</p> <p>Ref Mon # 2 NELSON</p> <p>Ref Mon # 3 BIEHL</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440002A	Date Monumented 2/23/1994	Monumented By AHTD	County MADISON	Route 295	Job Number: R90018
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	168,829.9889	
Easting (M)	224,926.9370	
Elevation (M)*	480.471	
Northing (SFT)	553,903.0552	
Easting (SFT)	737,947.7925	
Elevation (SFT)*	1,576.345	

Convergence Angle	-1	7	39.8733020
Scale Factor	0.999945834		
Elevation Adjust. Factor	0.9999246041		
Combined Adjust. Factor	0.9998704422		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	25	8.10	26.6
MK # 2	TELEPHONE JUNCTION BOX	205	10.20	33.5
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>DENNIS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NELSON</td> </tr> <tr> <td>Ref Mon # 3</td> <td>BIEHL</td> </tr> </table>	Ref Mon # 1	DENNIS	Ref Mon # 2	NELSON	Ref Mon # 3	BIEHL	<table border="1" style="width: 100%; height: 150px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	DENNIS							
Ref Mon # 2	NELSON							
Ref Mon # 3	BIEHL							
Comments								

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440003	Date Monumented 2/23/1994	Monumented By AHTD	County MADISON	Route 16	Job Number: 090009
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	173,081.8090	
Easting (M)	227,121.9306	
Elevation (M)*	404.802	
Northing (SFT)	567,852.5684	
Easting (SFT)	745,149.2006	
Elevation (SFT)*	1,328.088	

Convergence Angle	-1	6	50.9022316
Scale Factor	0.999949064		
Elevation Adjust. Factor	0.9999364774		
Combined Adjust. Factor	0.9998855446		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>FROM THE JCT. OF HWY. 16 AND HWY 295 IN THE VILLAGE OF CROSSES, LOCATED ABOUT 35.4 KM BY ROAD SOUTHEAST OF FAYETTEVILLE, GO NORTHWEST ON HWY. 16 FOR 0.36 KM (0.22 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.0 METERS NORTHWEST OF A FIELD ENTRANCE, 8.70 METERS SOUTHWEST OF THE CENTER OF HWY. 16 AND 0.67 METERS NORTHEAST OF A WITNESS POST SET IN A FENCELINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "440003" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGHT AND FLUSH WITH THE GROUND SURFACE. THE SHOT DISTANCE IS 379.338 METERS. THIS STATION WAS UPDATED 5/25/00.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 OLD MAIN</p> <p>Ref Mon # 2 GAYLOR</p> <p>Ref Mon # 3 OZARPORT</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440003A	Date Monumented 2/23/1994	Monumented By AHTD	County MADISON	Route 16	Job Number: 090009
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	172,773.7162	
Easting (M)	227,343.1697	
Elevation (M)*		
Northing (SFT)	566,841.7672	
Easting (SFT)	745,875.0493	
Elevation (SFT)*		

Convergence Angle	-1	6	45.6318127
Scale Factor	0.999948820		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	305	7.00	23.0
MK # 2	NBC IN POWER POLE	175	6.60	21.7
MK # 3	TELEPHONE JUNCTION BOX	281	8.43	27.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 OLD MAIN	
Ref Mon # 2 GAYLOR	
Ref Mon # 3 OZARPORT	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 52 31.9695708
Longitude	93 54 43.7219712
Ellipsoid Height (M):	379.595
Geoid Height (M):	-27.902

Location Description
<p>AT THE JCT. OF HWY. AND HWY. 295 IN THE VILLAGE OF CROSSES, LOCATED ABOUT 35.4 KM SOUTHEAST OF FAYETTEVILLE, THE STATION IS LOCATED 20.0 METERS FROM THE ROAD JCT., 7.70 METERS SOUTHWEST OF THE CENTERLINE OF HWY. 16, 20.0 METERS EAST OF THE CENTERLINE OF HWY. 295 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 1/2" ALUMINUM CAP STAMPED "440003A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGHT AND IS FLUSH WITH THE GROUND SURFACE. THE SHOT DISTANCE IS 379.338 METERS. THIS STATION WAS UPDATED 5/25/00.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440004A	Date Monumented 7/1/1993	Monumented By Aerial Data Service	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td colspan="2">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NGVD 29</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td style="width: 10%; text-align: center;">36</td> <td style="width: 10%; text-align: center;">7</td> <td>32.5283700</td> </tr> <tr> <td>Longitude</td> <td style="text-align: center;">93</td> <td style="text-align: center;">44</td> <td>2.8994928</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td style="text-align: center;">353.923</td> <td colspan="2"></td> </tr> <tr> <td>Geoid Height (M):</td> <td style="text-align: center;">-28.540</td> <td colspan="2"></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center; padding: 5px;">Location Description</th> </tr> <tr> <td style="padding: 5px;"> MONUMENT IS AN AHTD 2 1/2 ALUMINUM CAP ON 3/4" x 36" REBAR IN CONCRETE POST ON EAST SIDE OF HIGHWAY 23 AND NORTH OF NEW BRIDGE OVER HOLMAN CREEK. </td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality		Elevation Datum:	NGVD 29		Geoid Datum:			Latitude	36	7	32.5283700	Longitude	93	44	2.8994928	Ellipsoid Height (M):	353.923			Geoid Height (M):	-28.540			Location Description	MONUMENT IS AN AHTD 2 1/2 ALUMINUM CAP ON 3/4" x 36" REBAR IN CONCRETE POST ON EAST SIDE OF HIGHWAY 23 AND NORTH OF NEW BRIDGE OVER HOLMAN CREEK.
Vertical Determined By:	LEVEL - Unkown Quality																												
Elevation Datum:	NGVD 29																												
Geoid Datum:																													
Latitude	36		7	32.5283700																									
Longitude	93		44	2.8994928																									
Ellipsoid Height (M):	353.923																												
Geoid Height (M):	-28.540																												
Location Description																													
MONUMENT IS AN AHTD 2 1/2 ALUMINUM CAP ON 3/4" x 36" REBAR IN CONCRETE POST ON EAST SIDE OF HIGHWAY 23 AND NORTH OF NEW BRIDGE OVER HOLMAN CREEK.																													
Horizontal Datum	NAD 83 (1986)																												
Northing (M)	200,227.7539																												
Easting (M)	243,903.2810																												
Elevation (M)*	382.464																												
Northing (SFT)	656,913.8893																												
Easting (SFT)	800,206.0144																												
Elevation (SFT)*	1,254.801																												
Convergence Angle	-1 0 32.7377713																												
Scale Factor	0.999980497																												
Elevation Adjust. Factor	0.9999399825																												
Combined Adjust. Factor	0.9999204807																												

SUPERCEDED CONTROL												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)	
Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
Grid Northing (Meters)												
Grid Easting (Meters)												

Location Reference Marks																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 30%;">Description</th> <th style="width: 10%;">Azimuth</th> <th colspan="2" style="width: 20%;">Distance</th> <th style="width: 30%;"></th> </tr> <tr> <td></td> <td></td> <th style="width: 10%;">Meters</th> <th style="width: 10%;">Feet</th> <td></td> </tr> <tr> <td>MK # 1 STOP SIGN</td> <td style="text-align: center;">335</td> <td style="text-align: center;">34.69</td> <td style="text-align: center;">113.8</td> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">AZ Mark Station</td> <td>440003</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>168 59 25.7</td> </tr> <tr> <td>Grid Azimuth</td> <td>167 58 53.0</td> </tr> </table> </td> </tr> <tr> <td>MK # 2 CHISELED X ON TOP @ NE COR OF BRIDGE</td> <td style="text-align: center;">175</td> <td style="text-align: center;">67.57</td> <td style="text-align: center;">221.7</td> <td></td> </tr> <tr> <td>MK # 3 PK SHINER ON EAST EDGE OF PAVEMENT</td> <td style="text-align: center;">335</td> <td style="text-align: center;">8.11</td> <td style="text-align: center;">26.6</td> <td></td> </tr> </table>	Description	Azimuth	Distance					Meters	Feet		MK # 1 STOP SIGN	335	34.69	113.8	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">AZ Mark Station</td> <td>440003</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>168 59 25.7</td> </tr> <tr> <td>Grid Azimuth</td> <td>167 58 53.0</td> </tr> </table>	AZ Mark Station	440003	Geodetic Azimuth	168 59 25.7	Grid Azimuth	167 58 53.0	MK # 2 CHISELED X ON TOP @ NE COR OF BRIDGE	175	67.57	221.7		MK # 3 PK SHINER ON EAST EDGE OF PAVEMENT	335	8.11	26.6	
Description	Azimuth	Distance																													
		Meters	Feet																												
MK # 1 STOP SIGN	335	34.69	113.8	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">AZ Mark Station</td> <td>440003</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>168 59 25.7</td> </tr> <tr> <td>Grid Azimuth</td> <td>167 58 53.0</td> </tr> </table>	AZ Mark Station	440003	Geodetic Azimuth	168 59 25.7	Grid Azimuth	167 58 53.0																					
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Area Reference Monuments (used for Processing)											
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Ref Mon # 1	NONE										
Ref Mon # 2	NONE										
Ref Mon # 3	NONE										
Comments											

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440005A	Date Monumented 7/1/1993	Monumented By Aerial Data Service	County MADISON	Route 412	Job Number: 9948, R90104
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Northing (M) 198,718.7049		Geoid Datum:
Easting (M) 246,162.1580		Latitude 36 6 44.8568424
Elevation (M)* 420.381		Longitude 93 42 31.5294444
Northing (SFT) 651,962.9510		Ellipsoid Height (M): 391.846
Easting (SFT) 807,617.0134		Geoid Height (M): -28.535
Elevation (SFT)* 1,379.200		

Convergence Angle 0 59 39.5696198	Scale Factor 0.999978342	Location Description MONUMENT IS AN AHTD 2 1/2 ALUMINUM CAP ON A 36" x 3/4" REBAR SET IN A CONCRETE POST NW OF AHTD MAINTENANCE AREA HEADQUARTERS BLDG IN R/W NW SIDE OF HIGHWAY 412.
Elevation Adjust. Factor 0.9999340329	Combined Adjust. Factor 0.9999123763	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	60D NAIL ON NORTH SHOULDER	170		7.96	26.1	AZ Mark Station 440006
MK # 2	FENCE CORNER	110		29.35	96.3	Geodetic Azimuth 57 38 56.6
MK # 3	TO W MOST OF 2 2" POSTS IN R/W FENCE	35		4.30	14.1	Grid Azimuth 56 39 17.0

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440006	Date Monumented 7/1/1993	Monumented By erial Data Servic	County MADISON	Route 412	Job Number: 9948,R90104
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 198,905.8359		Latitude 36 6 51.0872724
Easting (M) 246,446.5490		Longitude 93 42 20.2893588
Elevation (M)* 426.837		Ellipsoid Height (M): 398.298
		Geoid Height (M): -28.538

Northing (SFT) 652,576.8966		
Easting (SFT) 808,550.0528		
Elevation (SFT)* 1,400.381		

Convergence Angle	0	59	33.0290238
Scale Factor	0.999978621		
Elevation Adjust. Factor	0.9999330198		
Combined Adjust. Factor	0.9999116423		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
MONUMENT IS AN AHTD 2 1/2 ALUMINUM CAP ON A 36"x 3/4" REBAR SET IN A CONCRETE POST IN NORTH R/W OF HIGHWAY 412 NEAR TOP OF HILL NE OF AHTD MAINTENANCE AREA HEADQUARTERS				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CURVE SIGN	110	23.35	76.6	AZ Mark Station 440005A
MK # 2	60D NAIL IN N SHOULDER OF HIGHWAY 41	190	8.89	29.2	Geodetic Azimuth 237 38 50.0
MK # 3	BLACK 2" PIPE CORNER POST	230	20.09	65.9	Grid Azimuth 236 39 17.0

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 440007A	Date Monumented 7/1/1993	Monumented By Aerial Data Service	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	198,873.4209	
Easting (M)	238,633.4660	
Elevation (M)*	464.699	
Northing (SFT)	652,470.5484	
Easting (SFT)	782,916.6297	
Elevation (SFT)*	1,524.600	

Convergence Angle	-1	2	34.7784189
Scale Factor	0.999978372		
Elevation Adjust. Factor	0.9999270789		
Combined Adjust. Factor	0.9999054525		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	60D NAIL IN THE SE FACE OF 18" OAK	320	26.21	86.0
MK # 2	60D NAIL IN THE NE FACE OF 14" OAK	210	14.33	47.0
MK # 3	60D NAIL IN THE EAST FACE OF 18" OAK	290	18.40	60.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Location Description

MON IS A 2 1/2" BRASS CAP ON 3/4"x 36" REBAR STAMPED "AHTD GPS 440007A" TO REACH FROM JCT OF HWY 412 & MADISON CO RD 478 PROCEED SW ON 478 APPROX .2 MILE TO CURVE S GO S APPROX .1MILE TO A DRIVE TURN W TO THE CORNETT HOOUSE TURN N AT RED GATE AND GO APPROX .15 MI N TO STA.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440008	Date Monumented 7/1/1993	Monumented By Aerial Data Service	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 199,364.2279		Latitude 36 7 1.4614968
Easting (M) 238,645.2610		Longitude 93 47 32.5133520
Elevation (M)* 443.732		Ellipsoid Height (M): 415.366
Northing (SFT) 654,080.8044		Geoid Height (M): -28.399
Easting (SFT) 782,955.3271		
Elevation (SFT)* 1,455.811		

Convergence Angle -1 2 34.7118932	Location Description MONUMENT IS 2 1/2" BRASS CAP FLUSH ON A 3/4" x 36" REBAR STAMPED "AHTD GPS 440008 WEST-NW OF "ELECTRONIC" OFFICE. MONUMENT IS ON LAND OWNED BY CLIFTON WOOD RT 3 BOX 273 HUNTSVILLE, ARKANSAS PHONE# (501) 738-2892
Scale Factor 0.999979087	
Elevation Adjust. Factor 0.9999303688	
Combined Adjust. Factor 0.9999094573	

SUPERCEDED CONTROL				
Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	60D NAIL IN THE EAST FACE OF 18" CEDAR	280		22.35	73.3	AZ Mark Station 440007A
MK # 2	60D NAIL IN THE SOUTH FACE OF 24" OAK	20		31.42	103.1	Geodetic Azimuth 177 34 49.4
MK # 3	NW CORNER OF OLD CHICKEN BARN	120		27.37	89.8	Grid Azimuth 178 37 24.1

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440009	Date Monumented 11/10/1994	Monumented By AHTD	County MADISON	Route 412	Job Number: 009951
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	200,312.0890	
Easting (M)	234,618.9550	
Elevation (M)*	416.507	
Northing (SFT)	657,190.5787	
Easting (SFT)	769,745.6882	
Elevation (SFT)*	1,366.491	

Convergence Angle	-1	4	8.7937504
Scale Factor	0.999980373		
Elevation Adjust. Factor	0.9999346407		
Combined Adjust. Factor	0.9999150150		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	3" BRACE POST	296	21.00	68.9
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 PRICE	Cross Reference Job: 9948 Elevations were established with levels on 9/04 by S5103 in Job 009951/090116
Ref Mon # 2 HINDSVILLE NO. 2	
Ref Mon # 3 440001	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440009A	Date Monumented 11/10/1994	Monumented By AHTD	County MADISON	Route 412	Job Number: 9951
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	200,633.7380				
Easting (M)	233,926.5710				
Elevation (M)*	419.604				
Northing (SFT)	658,245.8554				
Easting (SFT)	767,474.0917				
Elevation (SFT)*	1,376.651				

Convergence Angle	-1	4	25.0435884
Scale Factor	0.999980832		
Elevation Adjust. Factor	0.9999341548		
Combined Adjust. Factor	0.9999149880		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	125	5.74	18.8
MK # 2	48" MAPLE TREE	135	24.80	81.4
MK # 3	NORTHWEST CORNER OF A HOUSE	150	28.75	94.3

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>PRICE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>HIINDSVILLE NO. 2</td> </tr> <tr> <td>Ref Mon # 3</td> <td>440001</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	PRICE	Ref Mon # 2	HIINDSVILLE NO. 2	Ref Mon # 3	440001	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Cross Reference Job: 9948 Elevations were established with levels on 9/04 by S5103 in Job 009951/090116</td> </tr> </table>	Comments	Cross Reference Job: 9948 Elevations were established with levels on 9/04 by S5103 in Job 009951/090116
Area Reference Monuments (used for Processing)											
Ref Mon # 1	PRICE										
Ref Mon # 2	HIINDSVILLE NO. 2										
Ref Mon # 3	440001										
Comments											
Cross Reference Job: 9948 Elevations were established with levels on 9/04 by S5103 in Job 009951/090116											

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440010	Date Monumented 4/22/1997	Monumented By AHTD	County MADISON	Route 412	Job Number: R90104
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	196,959.0999	
Easting (M)	244,410.3500	
Elevation (M)*	425.918	
Northing (SFT)	646,189.9803	
Easting (SFT)	801,869.6233	
Elevation (SFT)*	1,397.366	

Convergence Angle	-1	0	19.6047593
Scale Factor	0.999975789		
Elevation Adjust. Factor	0.9999331640		
Combined Adjust. Factor	0.9999089547		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE "Y" JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 23, LOCATED ON THE EAST SIDE OF HUNTSVILLE, GO NORTHERLY ON U.S. HIGHWAY 412 FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 23.00 METERS NORTHEAST OF THE CENTER OF THE SOUTH ENTRANCE TO SAMS BARBER & BEAUTY SHOP, 17.65 METERS SOUTHWEST OF THE NORTH ENTRANCE TO SAMS BARBER & BEAUTY SHOP, 8.85 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 412 AND 1.45 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "440010 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NE COR OF SAMS BARBER & BEAUTY SH	328	17.26	56.6	
MK # 2	SE COR OF SAMS BARBER & BEAUTY SHO	281	12.96	42.5	
MK # 3	CABLE POLE	299	1.69	5.5	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HUNTSVILLE	
Ref Mon # 2 BURLINGTON RESET	
Ref Mon # 3 MARBLE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440010A	Date Monumented 4/22/1997	Monumented By AHTD	County MADISON	Route N/A	Job Number: R90104
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	198,019.9239	
Easting (M)	244,353.3560	
Elevation (M)*	431.301	
Northing (SFT)	649,670.3670	
Easting (SFT)	801,682.6355	
Elevation (SFT)*	1,415.027	

Convergence Angle	-1	0	21.3636199
Scale Factor	0.999977291		
Elevation Adjust. Factor	0.9999323194		
Combined Adjust. Factor	0.9999096119		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	FIRE HYDRANT	141	24.55	80.5	
MK # 2	GAS METER	285	43.65	143.2	
MK # 3	TELEPHONE JUNCTION BOX	302	50.20	164.7	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HUNTSVILLE	
Ref Mon # 2 BURLINGTON RESET	
Ref Mon # 3 MARBLE	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 6 21.1643244
Longitude	93 43 43.3528896
Ellipsoid Height (M):	402.778
Geoid Height (M):	-28.523

Location Description
<p>TO REACH THE STATION FROM THE "Y" JUNCTION OF U.S. 412 AND STATE HIGHWAY 63 ON THE EASTERN SIDE OF HUNTSVILLE GO NORTHERLY ON HWY-23 FOR 0.97 KM. (0.60 MI.) TO A PAVED ROAD RIGHT ENTERING INTO THE "CEDAR BLUFF" SUBDIVISION. TURN RIGHT AND GO EASTERLY AND UPHILL FOR 0.40 KM. (0.25 MI.) TO THE JUNCTION OF ANOTHER PAVED ROAD AND THE STATION ON THE LEFT IN THE NORTHWEST CORNER OF THE INTERSECTION. 7.85 METERS NORTH OF THE CENTER OF A PAVED STREET, 6.45 METERS WEST OF THE CENTER OF A PAVED STREET AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440010A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	440010
Geodetic Azimuth	175 55 07.5377
Grid Azimuth	176 55 28.9124

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440011	Date Monumented 4/22/1997	Monumented By AHTD	County MADISON	Route 412	Job Number: R90104
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 200,733.9850		Latitude 36 7 51.4889616
Easting (M) 248,411.3940		Longitude 93 41 2.9849172
Elevation (M)* 400.807		Ellipsoid Height (M): 372.245
		Geoid Height (M): -28.561

Northing (SFT) 658,574.7491		
Easting (SFT) 814,996.3818		
Elevation (SFT)* 1,314.981		

Convergence Angle 0 58 48.0456366		
Scale Factor 0.999981370		
Elevation Adjust. Factor 0.9999371043		
Combined Adjust. Factor 0.9999184754		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION FROM THE JUNCTION U.S. HIGHWAY 412 AND STATE HIGHWAY 127, LOCATED ABOUT 8.05 KM (5.00 MI) NORTHEAST OF HUNTSVILLE AT OLD ALABAM, GO SOUTHWEST ON U.S. HIGHWAY 412 FOR 0.48 (0.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.30 METERS NORTH-NORTHWEST OF THE CENTER OF U.S. HIGHWAY 412 , 0.82 METERS SOUTH-SOUTEAST OF A BARBED WIRE FENCE AND 0.68 METERS SOUTH-SOUTEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440011 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	0.060 METER IRON PIPE FENCE LINE BRACE	65	7.30	24.0	AZ Mark Station 440011A
MK # 2					Geodetic Azimuth 239 37 27.93039
MK # 3					Grid Azimuth 240 36 15.92509

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HUNTSVILLE Ref Mon # 2 BURLINGTON RESET Ref Mon # 3 MARBLE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440011A	Date Monumented 4/22/1997	Monumented By AHTD	County MADISON	Route 412	Job Number: R90104
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Vertical Determined By:</td> <td colspan="2">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td style="width: 10%; text-align: center;">36</td> <td style="width: 10%; text-align: center;">7</td> <td style="width: 80%;">45.2205516</td> </tr> <tr> <td>Longitude</td> <td style="text-align: center;">93</td> <td style="text-align: center;">41</td> <td>16.1676420</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td colspan="2" style="text-align: center;">364.685</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td colspan="2" style="text-align: center;">-28.558</td> <td></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	36	7	45.2205516	Longitude	93	41	16.1676420	Ellipsoid Height (M):	364.685			Geoid Height (M):	-28.558		
Vertical Determined By:	LEVEL - Unkown Quality																										
Elevation Datum:	NAVD 88																										
Geoid Datum:																											
Latitude	36		7	45.2205516																							
Longitude	93		41	16.1676420																							
Ellipsoid Height (M):	364.685																										
Geoid Height (M):	-28.558																										
Horizontal Datum NAD 83 (1986)																											
Northing (M)	200,546.4519																										
Easting (M)	248,078.5160																										
Elevation (M)*	393.243																										
Northing (SFT)	657,959.4843																										
Easting (SFT)	813,904.2646																										
Elevation (SFT)*	1,290.165																										

Convergence Angle	0	58	55.7166527
Scale Factor	0.999981080		
Elevation Adjust. Factor	0.9999382912		
Combined Adjust. Factor	0.9999193723		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 127, LOCATED ABOUT 8.05 KM (5.00 MI) NORTHEAST OF HUNTSVILLE AT OLD ALABAM, GO SOUTHWEST ON U.S. HIGHWAY 412 FOR 0.89 KM (0.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.30 METERS SOUTHEAST OF THE CENTER OF A FIELD ENTRANCE, 11.55 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 412, 10.00 METERS SOUTH OF THE CENTER OF A CONCRETE HEADWALL 1.64 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440011A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	0.110 METER IRON PIPE TO A CABLE FENCE	63	9.02	29.6	AZ Mark Station
MK # 2	0.110 METER IRON PIPE TO A CABLE FENCE	124	1.70	5.6	Geodetic Azimuth
MK # 3	TELEPHONE JUNCTION BOX	157	10.90	35.8	Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HUNTSVILLE	
Ref Mon # 2 BURLINGTON RESET	
Ref Mon # 3 MARBLE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440012	Date Monumented 4/22/1997	Monumented By AHTD	County MADISON	Route 412	Job Number: R90104
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	200,283.2139	
Easting (M)	254,874.3680	
Elevation (M)*	463.203	
Northing (SFT)	657,095.8443	
Easting (SFT)	836,200.3223	
Elevation (SFT)*	1,519.692	

Convergence Angle	0	56	17.4832677
Scale Factor	0.999980857		
Elevation Adjust. Factor	0.9999273136		
Combined Adjust. Factor	0.9999081720		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WOODEN FENCE POST	250	2.90	9.5	
MK # 2	POWER POLE	22	26.69	87.6	
MK # 3	WOODED GATE POST	87	39.69	130.2	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HUNTSVILLE	
Ref Mon # 2 BURLINGTON RESET	
Ref Mon # 3 MARBLE	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 7 40.3759308
Longitude	93 36 44.2418436
Ellipsoid Height (M):	434.613
Geoid Height (M):	-28.590

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 21 SOUTH, LOCATED ABOUT 3.22 KM (2.00 MI) EAST OF MARBLE, GO WEST ON U.S. HIGHWAY 412 FOR 6.68 KM (4.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 41.886 METERS WEST OF THE CENTER OF A PASTURE ENTRANCE, 11.24 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 412 AND 0.75 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440012 1997" SET ON TOP OF AN IRON ROD 1.20 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440012A	Date Monumented 4/22/1997	Monumented By AHTD	County MADISON	Route N/A	Job Number: R90104
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 200,557.0150		Latitude 36 7 49.0773288
Easting (M) 254,534.6220		Longitude 93 36 58.0071312
Elevation (M)* 462.725		Ellipsoid Height (M): 434.135
Northing (SFT) 657,994.1400		Geoid Height (M): -28.590
Easting (SFT) 835,085.6723		
Elevation (SFT)* 1,518.124		

Convergence Angle	0	56	25.4932766
Scale Factor	0.999981258		
Elevation Adjust. Factor	0.9999273886		
Combined Adjust. Factor	0.9999086480		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station 440012
MK # 2					Geodetic Azimuth 127 55 29.33587
MK # 3					Grid Azimuth 128 51 54.88224

Area Reference Monuments (used for Processing) Ref Mon # 1 HUNTSVILLE Ref Mon # 2 BURLINGTON RESET Ref Mon # 3 MARBLE	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440013	Date Monumented 4/22/1997	Monumented By AHTD	County MADISON	Route 412	Job Number: R90104
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	201,389.1620	
Easting (M)	257,492.1300	
Elevation (M)*	399.095	
Northing (SFT)	660,724.2757	
Easting (SFT)	844,788.7632	
Elevation (SFT)*	1,309.364	

Convergence Angle	0	55	16.9850223
Scale Factor	0.999982586		
Elevation Adjust. Factor	0.9999373729		
Combined Adjust. Factor	0.9999199600		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WOODEN CORNER FENCE POST	297	51.87	170.2	AZ Mark Station 440013A
MK # 2	WOODEN CORNER FENCE POST	84	41.09	134.8	Geodetic Azimuth 87 43 52.61868
MK # 3	WEST END OF CONCRETE HEADWALL	119	25.48	83.6	Grid Azimuth 88 39 09.67904

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HUNTSVILLE	
Ref Mon # 2 BURLINGTON RESET	
Ref Mon # 3 MARBLE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440013A	Date Monumented 4/22/1997	Monumented By AHTD	County MADISON	Route N/A	Job Number: R90104
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Vertical Determined By:</td> <td colspan="2">GPS - Unknown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>36</td> <td>8 18.2484672</td> </tr> <tr> <td>Longitude</td> <td>93</td> <td>34 41.0494728</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>368.813</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.617</td> <td></td> </tr> </table>	Vertical Determined By:	GPS - Unknown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	36	8 18.2484672	Longitude	93	34 41.0494728	Ellipsoid Height (M):	368.813		Geoid Height (M):	-28.617	
Vertical Determined By:	GPS - Unknown Quality																						
Elevation Datum:	NAVD 88																						
Geoid Datum:																							
Latitude	36		8 18.2484672																				
Longitude	93		34 41.0494728																				
Ellipsoid Height (M):	368.813																						
Geoid Height (M):	-28.617																						
Horizontal Datum NAD 83 (1986)																							
Northing (M)	201,400.4720																						
Easting (M)	257,973.0340																						
Elevation (M)*	397.430																						
Northing (SFT)	660,761.3819																						
Easting (SFT)	846,366.5290																						
Elevation (SFT)*	1,303.902																						

Convergence Angle	0	55	5.7977346
Scale Factor	0.999982615		
Elevation Adjust. Factor	0.9999376342		
Combined Adjust. Factor	0.9999202502		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 21 SOUTH, LOCATED ABOUT 3.22 KM (2.00 MI) EAST OF MARBLE, GO WEST ON U.S. HIGHWAY 412 FOR 2.49 KM (1.55 MI) TO THE JUNCTION OF COUNTY ROAD 24 ON THE RIGHT, TURN RIGHT NORTH ON COUNTY ROAD 24 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 4.30 METERS WEST OF THE CENTER OF COUNTY ROAD 24, 0.85 METERS EAST OF A BARBED WIRE FENCE AND 0.66 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440013A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND IS DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	WOODEN FENCE POST	173	19.65	64.5	440013	
MK # 2	WOODEN LINE BRACE FENCE POST	349	27.40	89.9		267 44 03.95665
MK # 3						268 39 09.67904

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HUNTSVILLE Ref Mon # 2 BURLINGTON RESET Ref Mon # 3 MARBLE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440014	Date Monumented 1/11/2000	Monumented By AHTD	County MADISON	Route 23	Job Number: 090009
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	165,635.0420	
Easting (M)	238,210.3099	
Elevation (M)*		
Northing (SFT)	543,420.9670	
Easting (SFT)	781,528.3251	
Elevation (SFT)*		

Convergence Angle	-1	2	30.5609383
Scale Factor	0.999943883		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN GATE POST	91	3.59	11.8
MK # 2	WOODEN BRACE POST	141	3.37	11.1
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	OLD MAIN
Ref Mon # 2	GAYLOR
Ref Mon # 3	OZARPORT

Comments

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 48 47.0110284
Longitude	93 47 25.3798908
Ellipsoid Height (M):	418.100
Geoid Height (M):	-27.962

Location Description
<p>TO REACH THE STATIONS FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO EAST ON STATE HIGHWAY 23 FOR 0.45 KM (0.28 MI) TO THE STATION ON THE RIGHT. THE STATION IS LOCATED 28.09 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 23, 5.72 METERS WEST OF A GRAVEL DRIVE AND 4.54 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440014 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 418.992 METERS.</p>

AZ Mark Station	440014A
Geodetic Azimuth	258 41 53.14165
Grid Azimuth	259 44 23.67609

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440014A	Date Monumented 1/11/2000	Monumented By AHTD	County MADISON	Route 23	Job Number: 090009
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	165,560.4408	
Easting (M)	237,798.1738	
Elevation (M)*		
Northing (SFT)	543,176.2129	
Easting (SFT)	780,176.1752	
Elevation (SFT)*		

Convergence Angle	-1	2	40.0813204
Scale Factor	0.999943832		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MOST WESTERLY WOODEN BRACE POST	265	2.87	9.4
MK # 2	MIDDLE WOODEN BRACE POST	322	1.63	5.3
MK # 3	MOST EASTERLY WOODEN BRACE POST	16	2.70	8.9

Area Reference Monuments (used for Processing) Ref Mon # 1 OLD MAIN Ref Mon # 2 GAYLOR Ref Mon # 3 OZARPORT	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 48 44.3473704
Longitude	93 47 41.7407712
Ellipsoid Height (M):	417.590
Geoid Height (M):	-27.965

Location Description
THE STATION IS LOCATED AT THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS. THE STATION IS 15.10 METERS NORTH OF THE CENTER OF STATE HIGHWAY 23 AND 1.44 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440014A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 418.892 METERS.

AZ Mark Station	440014
Geodetic Azimuth	78 41 43.56829
Grid Azimuth	79 44 23.67609

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440015	Date Monumented 1/11/2000	Monumented By AHTD	County MADISON	Route 16	Job Number: 090009
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 166,853.5828		Geoid Datum:
Easting (M) 234,358.3247		Latitude 35 49 24.2428548
Elevation (M)* 		Longitude 93 49 59.7040068
Northing (SFT) 547,418.7962		Ellipsoid Height (M): 404.998
Easting (SFT) 768,890.6036		Geoid Height (M): -27.958
Elevation (SFT)* 		

Convergence Angle -1 4 0.3620069	Location Description
Scale Factor 0.999944618	<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO NORTHWEST ON STATE HIGHWAY 16 FOR 5.55 KM (3.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.82 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 16 AND 1.12 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440015 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 482.304 METERS.</p>
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL				
Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	PUNCH MARK IN TOP OF METAL GUARD RAIL POST	344	1.95	6.4	AZ Mark Station 440015A
MK # 2	PUNCH MARK IN TOP OF METAL GUARD RAIL POST	36	1.87	6.1	Geodetic Azimuth 3 24 54.28873
MK # 3	PUNCH MARK IN TOP OF METAL GUARD RAIL POST	65	3.25	10.7	Grid Azimuth 4 28 54.65269

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 OLD MAIN</p> <p>Ref Mon # 2 GAYLOR</p> <p>Ref Mon # 3 OZARPORT</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440015A	Date Monumented 1/11/2000	Monumented By AHTD	County MADISON	Route 295	Job Number: 090009
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 167,334.3608		Geoid Datum:
Easting (M) 234,396.0095		Latitude 35 49 39.8627904
Elevation (M)* 		Longitude 93 49 58.5594192
Northing (SFT) 548,996.1487		Ellipsoid Height (M): 401.875
Easting (SFT) 769,014.2412		Geoid Height (M): -27.952
Elevation (SFT)* 		

Convergence Angle -1 3 59.6959723	Location Description
Scale Factor 0.999944936	<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 295 AND STATE HIGHWAY 16, LOCATED ON THE EAST SIDE OF COMBS, GO NORTH ON STATE HIGHWAY 295 FOR 0.37 KM (0.23 MI) TO THE STATION ON THE RIGHT. THE STATION IS 6.27 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 295 AND 1.04 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440015A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	PUNCH MARK IN TOP OF METAL GUARD RAIL POST	258	2.15	7.1	AZ Mark Station 440015
MK # 2	PUNCH MARK IN TOP OF METAL GUARD RAIL POST	316	1.15	3.8	Geodetic Azimuth 183 24 54.95868
MK # 3	PUNCH MARK IN TOP OF METAL GUARD RAIL POST	11	2.20	7.2	Grid Azimuth 184 28 54.65269

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 OLD MAIN</p> <p>Ref Mon # 2 GAYLOR</p> <p>Ref Mon # 3 OZARPORT</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440016	Date Monumented 1/11/2000	Monumented By AHTD	County MADISON	Route 16	Job Number: 090009
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	170,297.7069	
Easting (M)	228,130.3447	
Elevation (M)*		
Northing (SFT)	558,718.3934	
Easting (SFT)	748,457.6392	
Elevation (SFT)*		

Convergence Angle	-1	6	26.2639336
Scale Factor	0.999946932		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER POST	317	8.22	27.0
MK # 2	WOODEN CORNER POST	59	2.80	9.2
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>OLD MAIN</td> </tr> <tr> <td>Ref Mon # 2</td> <td>GAYLOR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>OZARPORT</td> </tr> </table>	Ref Mon # 1	OLD MAIN	Ref Mon # 2	GAYLOR	Ref Mon # 3	OZARPORT	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	OLD MAIN						
Ref Mon # 2	GAYLOR						
Ref Mon # 3	OZARPORT						

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 51 12.1407408

Longitude 93 54 10.4380596

Ellipsoid Height (M): 382.535

Geoid Height (M): -27.925

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO NORTHWEST ON STATE HIGHWAY 16 FOR 12.99 KM (8.07 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.10 METERS EAST OF THE CENTER OF A PASTURE ENTRANCE, 6.95 METERS NORTH OF THE CENTER OF STATE HIGHWAY 16 AND 2.05 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440016 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 483.966 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440016A	Date Monumented 1/11/2000	Monumented By AHTD	County MADISON	Route 16	Job Number: 090009
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	170,538.3036	
Easting (M)	227,710.4802	
Elevation (M)*		
Northing (SFT)	559,507.7511	
Easting (SFT)	747,080.1338	
Elevation (SFT)*		

Convergence Angle	-1	6	36.1077375
Scale Factor	0.999947104		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO NORTHWEST ON STATE HIGHWAY 16 FOR 13.45 KM (8.36 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.50 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 11.00 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 16 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440016A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 483.966 METERS.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					440016
MK # 2	NONE					118 42 14.89223
MK # 3	NONE					119 48 51.03239

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	OLD MAIN
Ref Mon # 2	GAYLOR
Ref Mon # 3	OZARPORT

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440017	Date Monumented 1/11/2000	Monumented By AHTD	County MADISON	Route 16	Job Number: 090009
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 177,552.5379		Geoid Datum:
Easting (M) 224,742.9398		Latitude 35 55 5.3451552
Elevation (M)* 		Longitude 93 56 31.1221572
Northing (SFT) 582,520.2848		Ellipsoid Height (M): 395.969
Easting (SFT) 737,344.1283		Geoid Height (M): -27.888
Elevation (SFT)* 		

Convergence Angle -1 7 48.1278873	Location Description
Scale Factor 0.999952868	<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO NORTHWEST ON STATE HIGHWAY 16 FOR 21.52 KM (13.37 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.30 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 16 AND 0.76 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440017 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 593.669 METERS.</p>
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WOODEN FENCE POST	45	1.00	3.3	440017A
MK # 2	NONE				320 06 28.06552
MK # 3	NONE				321 14 16.15734

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 OLD MAIN	
Ref Mon # 2 GAYLOR	
Ref Mon # 3 OZARPORT	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440017A	Date Monumented 1/11/2000	Monumented By AHTD	County MADISON	Route 16	Job Number: 090009
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	178,015.4090	
Easting (M)	224,371.2847	
Elevation (M)*		
Northing (SFT)	584,038.8877	
Easting (SFT)	736,124.7899	
Elevation (SFT)*		

Convergence Angle	-1	7	56.9649713
Scale Factor	0.999953287		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER POST	298	2.05	6.7
MK # 2	WOODEN CORNER POST	89	14.50	47.6
MK # 3	GUY POLE	158	11.60	38.1

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>OLD MAIN</td> </tr> <tr> <td>Ref Mon # 2</td> <td>GAYLOR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>OZARPORT</td> </tr> </table>	Ref Mon # 1	OLD MAIN	Ref Mon # 2	GAYLOR	Ref Mon # 3	OZARPORT	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	OLD MAIN							
Ref Mon # 2	GAYLOR							
Ref Mon # 3	OZARPORT							
Comments								

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 55 20.1226368

Longitude 93 56 46.3087824

Ellipsoid Height (M): 386.794

Geoid Height (M): -27.889

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO NORTHWEST ON STATE HIGHWAY 16 FOR 22.10 KM (13.73 MI) TO THE STATION ON THE RIGHT SET ON THE TOP OF A HILL. THE STATION IS 18.30 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 16, 2.85 METERS NORTH OF THE CENTER OF A GRAVEL ROAD AND 0.74 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440017A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440018	Date Monumented 9/14/2000	Monumented By AHTD	County MADISON	Route 23	Job Number: 009966,090552
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	166,802.3657	
Easting (M)	240,564.3026	
Elevation (M)*	461.191	
Northing (SFT)	547,250.7615	
Easting (SFT)	789,251.3828	
Elevation (SFT)*	1,513.091	

Convergence Angle	-1	1	36.4880436
Scale Factor	0.999944659		
Elevation Adjust. Factor	0.9999276293		
Combined Adjust. Factor	0.9998722923		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED ABOUT 3.22 KM (2.00 MI) NORTHEAST OF ST PAUL, GO SOUTHWEST ON STATE HIGHWAY 23 AND STATE HIGHWAY 16 FOR 3.03 KM (1.88 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.80 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 23 AND 16, 3.93 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.61 METERS NORTH OF A WITNESS POST SET AT THE NORTHEAST CORNER OF A CHAINLINK FENCE SURROUNDING A SCHOOL PLAYGROUND. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440018 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING BY CREW S5102 FROM TBM- 901. THE SHOT DISTANCE IS 403.750.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST OF CHAIN LINK FENCE	181	0.80	2.6
MK # 2	GATE POST OF CHAIN LINK FENCE	270	17.65	57.9
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 180px;" type="text" value="GAYLOR"/> Ref Mon # 2 <input style="width: 180px;" type="text" value="ENES"/> Ref Mon # 3 <input style="width: 180px;" type="text" value="AHTD HAR 1"/>	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440018A	Date Monumented 9/14/2000	Monumented By AHTD	County MADISON	Route 23	Job Number: 009966
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	166,841.5548	
Easting (M)	240,162.5058	
Elevation (M)*	458.964	
Northing (SFT)	547,379.3344	
Easting (SFT)	787,933.1544	
Elevation (SFT)*	1,505.784	

Convergence Angle	-1	1	45.8179505
Scale Factor	0.999944680		
Elevation Adjust. Factor	0.9999279788		
Combined Adjust. Factor	0.9998726628		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	90	23.84	78.2
MK # 2	GUY POLE	192	15.15	49.7
MK # 3	GUY POLE	269	16.00	52.5

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>GAYLOR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ENES</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD HAR 1</td> </tr> </table>	Ref Mon # 1	GAYLOR	Ref Mon # 2	ENES	Ref Mon # 3	AHTD HAR 1	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	GAYLOR						
Ref Mon # 2	ENES						
Ref Mon # 3	AHTD HAR 1						

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 49 27.2974548
Longitude	93 46 8.4885780
Ellipsoid Height (M):	431.028
Geoid Height (M):	-27.936

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED ABOUT 3.22 KM (2.00 MI) NORTHEAST OF ST PAUL, GO SOUTHWEST ON STATE HIGHWAY 23 AND STATE HIGHWAY 16 FOR 3.38 KM (2.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.70 METERS EAST-SOUTHEAST OF A WATER METER, 7.55 METERS NORTH OF THE CENTER OF STATE HIGHWAY 23 AND 16 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440018A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING BY CREW S5102 FROM TBM- 901. THE SHOT DISTANCE IS 403.750.</p>

AZ Mark Station	440018
Geodetic Azimuth	94 32 28.70281
Grid Azimuth	95 34 14.54803

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 440019	Date Monumented 9/14/2000	Monumented By AHTD	County MADISON	Route 23	Job Number: 009966,090552
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	168,430.4135	
Easting (M)	242,178.8026	
Elevation (M)*	480.928	
Northing (SFT)	552,592.1150	
Easting (SFT)	794,548.2882	
Elevation (SFT)*	1,577.845	

Convergence Angle	-1	0	59.7336972
Scale Factor	0.999945780		
Elevation Adjust. Factor	0.9999245324		
Combined Adjust. Factor	0.9998703165		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE R/W MARKER	199	15.15	49.7
MK # 2	CONCRETE R/W MARKER	27	19.15	62.8
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 GAYLOR Ref Mon # 2 ENES Ref Mon # 3 AHTD HAR 1	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 50 20.0111460
Longitude	93 44 49.2922860
Ellipsoid Height (M):	453.027
Geoid Height (M):	-27.901

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED ABOUT 3.22 KM (2.00 MI) NORTHEAST OF ST PAUL, GO SOUTHWEST ON STATE HIGHWAY 23 AND STATE HIGHWAY 16 FOR 0.69 KM (0.43 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.85 METERS EAST-SOUTHEAST OF THE CENTER OF STATE HIGHWAY 23 AND 16 AND 1.35 METERS WEST-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440019 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING BY CREW S5102 FROM TBM- 902. THE SHOT DISTANCE IS 286.285 METERS.

AZ Mark Station	440019A
Geodetic Azimuth	49 10 14.73716
Grid Azimuth	50 11 14.48646

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440019A	Date Monumented 9/14/2000	Monumented By AHTD	County MADISON	Route 23	Job Number: 009966
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	168,613.6925	
Easting (M)	242,398.6823	
Elevation (M)*	483.457	
Northing (SFT)	553,193.4228	
Easting (SFT)	795,269.6768	
Elevation (SFT)*	1,586.142	

Convergence Angle	-1	0	54.7112483
Scale Factor	0.999945911		
Elevation Adjust. Factor	0.9999241356		
Combined Adjust. Factor	0.9998700507		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED ABOUT 3.22 KM (2.00 MI) NORTHEAST OF ST PAUL, GO SOUTHWEST ON STATE HIGHWAY 23 AND STATE HIGHWAY 16 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 25.40 METERS NORTHEAST OF THE CENTER OF A PAVED ENTRANCE TO A PASTURE, 10.00 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 23 AND 16 AND 1.14 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440019A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING BY CREW S5102 FROM TBM 902. THE SHOT DISTANCE IS 286.285 METERS.</p>				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	GAS METER	192	3.60	11.8	AZ Mark Station 440019
MK # 2	TELEPHONE JUNCTION BOX	231	21.50	70.5	Geodetic Azimuth 229 10 19.79086
MK # 3	NONE				Grid Azimuth 230 11 14.48646

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 GAYLOR Ref Mon # 2 ENES Ref Mon # 3 AHTD HAR 1	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440020	Date Monumented 6/29/2001	Monumented By AHTD	County MADISON	Route 74	Job Number: 009862,090343
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	189,986.8949	
Easting (M)	246,639.1560	
Elevation (M)*	402.320	
Northing (SFT)	623,315.3377	
Easting (SFT)	809,181.9643	
Elevation (SFT)*	1,319.944	

Convergence Angle	0	59	24.9616059
Scale Factor	0.999966649		
Elevation Adjust. Factor	0.9999368669		
Combined Adjust. Factor	0.9999035180		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	HARRISON CORS
Ref Mon # 2	V 26
Ref Mon # 3	GAYLOR

Comments
ELEVATION BY DIGITAL LEVELS FROM 2ND ORDER NGS BM J 51 BY CREW S5112 IN SEPT. 2012 FOR JOB #090343 & AND USED 3RD ORDER NGS BM K 51 RESET AS A CHECK IN THE DIGITAL LEVEL LOOP.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440020A	Date Monumented 6/29/2001	Monumented By AHTD	County MADISON	Route 74	Job Number: 009862,090343
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	189,993.8240	
Easting (M)	247,131.7240	
Elevation (M)*		
Northing (SFT)	623,338.0709	
Easting (SFT)	810,797.9978	
Elevation (SFT)*		

Convergence Angle	0	59	13.5166198
Scale Factor	0.999966668		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WESTERN WOODEN IN LINE BRACE POST		1.45	4.8	
MK # 2	EASTERN WOODEN IN LINE BRACE POST		1.20	3.9	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 HARRISON CORS Ref Mon # 2 V 26 Ref Mon # 3 GAYLOR	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description	
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 23 AND 74 LOCATED SOUTH OF HUNTSVILLE, GO EAST ON STATE HIGHWAY 74 FOR 0.628 KM (0.39 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.85 METERS NORTH OF THE CENTER OF HIGHWAY 74 AND 0.59 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "440020A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 492.655 METERS.	

AZ Mark Station	440020
Geodetic Azimuth	268 12 25
Grid Azimuth	269 11 39

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440021	Date Monumented 6/29/2001	Monumented By AHTD	County MADISON	Route 23	Job Number: 009862,090343
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	193,367.5590	
Easting (M)	244,340.0570	
Elevation (M)*	467.618	
Northing (SFT)	634,406.7332	
Easting (SFT)	801,639.0037	
Elevation (SFT)*	1,534.177	

Convergence Angle	-1	0	19.7735738
Scale Factor	0.999970904		
Elevation Adjust. Factor	0.9999266208		
Combined Adjust. Factor	0.9998975270		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 23 AND 74 LOCATED SOUTH OF HUNTSVILLE, GO NORTH ON HIGHWAY 23 FOR 4.522 KM (2.81 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.70 METERS EAST OF THE CENTER OF HIGHWAY 23 AND 0.84 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "440021 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 470.799 METERS.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CORNER POST		0.95	3.1	
MK # 2	TELEPHONE JUNCTION BOX		17.10	56.1	
MK # 3					

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	HARRISON CORS	<p>ELEVATION BY DIGITAL LEVELS FROM 2ND ORDER NGS BM J 51 BY CREW S5112 IN SEPT. 2012 FOR JOB #090343 & AND USED 3RD ORDER NGS BM K 51 RESET AS A CHECK IN THE DIGITAL LEVEL LOOP.</p>
Ref Mon # 2	V 26	
Ref Mon # 3	GAYLOR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440021A	Date Monumented 6/29/2001	Monumented By AHTD	County MADISON	Route 23	Job Number: 009862,090343
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	192,904.8969	
Easting (M)	244,426.9600	
Elevation (M)*	483.475	
Northing (SFT)	632,888.8159	
Easting (SFT)	801,924.1179	
Elevation (SFT)*	1,586.200	

Convergence Angle	-1	0	17.5644385
Scale Factor	0.999970300		
Elevation Adjust. Factor	0.9999241328		
Combined Adjust. Factor	0.9998944351		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORRIGATED METAL PIPE		25.50	83.7
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HARRISON CORS	ELEVATION BY DIGITAL LEVELS FROM 2ND ORDER NGS BM J 51 BY CREW S5112 IN SEPT. 2012 FOR JOB #090343 & AND USED 3RD ORDER NGS BM K 51 RESET AS A CHECK IN THE DIGITAL LEVEL LOOP.
Ref Mon # 2 V 26	
Ref Mon # 3 GAYLOR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440022	Date Monumented 	Monumented By 	County NA	Route NA	Job Number: 040151
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 196,743.4160		Geoid Datum:
Easting (M) 225,408.8040		Latitude 36 5 28.3092576
Elevation (M)* 		Longitude 93 56 19.6390680
Northing (SFT) 645,482.3573		Ellipsoid Height (M): 365.618
Easting (SFT) 739,528.7178		Geoid Height (M): -27.894
Elevation (SFT)* 		

Convergence Angle -1 7 41.4458877	
Scale Factor 0.999974993	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks			
Description	Azimuth	Distance	
		Meters	Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 	
Ref Mon # 2 	
Ref Mon # 3 	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440022A	Date Monumented	Monumented By	County NA	Route NA	Job Number: 040151
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 196,479.4209		Geoid Datum:
Easting (M) 225,760.1670		Latitude 36 5 19.9698864
Elevation (M)*		Longitude 93 56 5.3888784
Northing (SFT) 644,616.2334		Ellipsoid Height (M): 404.884
Easting (SFT) 740,681.4812		Geoid Height (M): -27.892
Elevation (SFT)*		

Convergence Angle -1 7 33.1537148	
Scale Factor 0.999974637	
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks			
Description	Azimuth	Distance	
		Meters	Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440101	Date Monumented 7/1/1993	Monumented By erial Data Servic	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 198,764.6229		Latitude 36 6 42.9140844
Easting (M) 240,182.1330		Longitude 93 46 30.6355692
Elevation (M)* 464.970		Ellipsoid Height (M): 436.454
		Geoid Height (M): -28.516

Northing (SFT) 652,113.6003		
Easting (SFT) 787,997.5480		
Elevation (SFT)* 1,525.489		

Convergence Angle -1 1 58.7052653		
Scale Factor 0.999978255		
Elevation Adjust. Factor 0.9999270364		
Combined Adjust. Factor 0.9999052930		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "1" SET FLUSH WITH GROUND IN A CLEARING SOUTH APPROX 300' FROM HOUSE.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN SOUTH FACE OF 18" WHITE OA		33.57	110.1	AZ Mark Station
MK # 2	60D NAIL IN WEST FACE OF 8" OAK		22.71	74.5	Geodetic Azimuth
MK # 3	60D NAIL IN EAST FACE OF 4" BIRCH		27.33	89.6	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1: NONE Ref Mon # 2: NONE Ref Mon # 3: NONE	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440102	Date Monumented 7/1/1993	Monumented By Aerial Data Service	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Northing (M) 199,271.4379		Geoid Datum:
Easting (M) 240,226.4580		Latitude 36 6 59.3806896
Elevation (M)* 473.471		Longitude 93 46 29.2287828
Northing (SFT) 653,776.3758		Ellipsoid Height (M): 444.951
Easting (SFT) 788,142.9710		Geoid Height (M): -28.520
Elevation (SFT)* 1,553.379		

Convergence Angle -1 1 57.8866576	Scale Factor 0.999978993	Location Description STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "2" SET 21.65' WEST OF CENTER LINE OF COUNTY ROAD #34 AND NW OF CONVENIENCE STORE ON EAST SIDE OF ROAD.
Elevation Adjust. Factor 0.9999257025	Combined Adjust. Factor 0.9999046970	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	8" PINE			14.66	48.1	AZ Mark Station
MK # 2	60D NAIL IN NE FACE OF 6" CORNER POST			12.24	40.2	Geodetic Azimuth
MK # 3	WEST OF CENTER LINE OF COUNTY ROAD			6.60	21.7	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440103	Date Monumented 7/1/1993	Monumented By erial Data Servic	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Northing (M) 198,972.4520		Geoid Datum:
Easting (M) 241,222.6730		Latitude 36 6 50.2625484
Elevation (M)* 452.635		Longitude 93 45 49.1852736
Northing (SFT) 652,795.4529		Ellipsoid Height (M): 424.114
Easting (SFT) 791,411.3863		Geoid Height (M): -28.521
Elevation (SFT)* 1,485.020		

Convergence Angle -1 1 34.5853745	Location Description STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "3" FLUSH WITH GROUND ON PROPERTY OWNED BY X. DOTSON. STATION IS 102.2' SOUTH OF SOUTH RIGHT-OF-WAY FENCE OF A DIRT AND GRAVEL ROAD AND IS NORTH OF A DRAIN.
Scale Factor 0.999978584	
Elevation Adjust. Factor 0.9999289719	
Combined Adjust. Factor 0.9999075574	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	60D NAIL IN 5" ELM		15.67	51.4	
MK # 2	ORANGE "T" POST		31.15	102.2	
MK # 3	NONE				

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440104	Date Monumented 7/1/1993	Monumented By erial Data Servic	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	Vertical Determined By: ADS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 199,423.0400		Latitude 36 7 4.7503668
Easting (M) 241,000.9760		Longitude 93 45 58.3717608
Elevation (M)* 443.966		Ellipsoid Height (M): 415.443
Northing (SFT) 654,273.7571		Geoid Height (M): -28.523
Easting (SFT) 790,684.0354		
Elevation (SFT)* 1,456.578		

Convergence Angle -1 1 39.9309834	Location Description STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "4" NORTH OF TRACK ROAD AND APPROX 300' NW OF RIGHT ANGLE TURN ON PRIVATE PROPERTY.
Scale Factor 0.999979235	
Elevation Adjust. Factor 0.9999303321	
Combined Adjust. Factor 0.9999095686	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN SOUTH FACE OF UTILITY POLE		32.81	107.6	AZ Mark Station
MK # 2	60D NAIL IN SOUTH FACE OF 4" PECAN TR		20.67	67.8	Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440105	Date Monumented 7/1/1993	Monumented By Aerial Data Service	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 198,988.3139		Latitude 36 6 51.5050848
Easting (M) 242,480.4030		Longitude 93 44 58.9130880
Elevation (M)* 456.762		Ellipsoid Height (M): 428.237
		Geoid Height (M): -28.525

Northing (SFT) 652,847.4932		Location Description
Easting (SFT) 795,537.7888		STATION IS A 5/8 REBAR WITH ALUMINUM CAP STAMPED "5" IN UTILITY RIGHT-OF-WAY.
Elevation (SFT)* 1,498.560		
Convergence Angle -1 1 5.3320335		
Scale Factor 0.999978639		
Elevation Adjust. Factor 0.9999283243		
Combined Adjust. Factor 0.9999069648		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
MK # 1 60D NAIL IN SW FACE OF 12" OAK TREE		21.40	70.2	Geodetic Azimuth
MK # 2 60D NAIL IN WEST FACE OF 39" POST OAK		27.30	89.6	Grid Azimuth
MK # 3 NONE				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NONE	
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440106	Date Monumented 7/1/1993	Monumented By erial Data Servic	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 199,587.3350		Latitude 36 7 10.7992416
Easting (M) 242,241.7650		Longitude 93 45 8.8800444
Elevation (M)* 425.898		Ellipsoid Height (M): 397.368
		Geoid Height (M): -28.529

Northing (SFT) 654,812.7816		Location Description
Easting (SFT) 794,754.8573		STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "6" DRIVEN FLUSH WITH GROUND IN NE CORNER OF HAYFIELD WEST OF TRANSMISSION LINES AND 63.75' WEST OF GATE STATION IS SOUTH OF A SHARP DRAW.
Elevation (SFT)* 1,397.300		
Convergence Angle -1 1 11.1317967		
Scale Factor 0.999979508		
Elevation Adjust. Factor 0.9999331672		
Combined Adjust. Factor 0.9999126766		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN 10" OAK		33.56	110.1	AZ Mark Station
MK # 2	GATE		19.43	63.7	Geodetic Azimuth
MK # 3	WEST "H" IN BRACE POWER POLE		23.19	76.1	Grid Azimuth

Area Reference Monuments (used for Processing) <table style="width: 100%; margin-top: 10px;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	NONE							
Ref Mon # 2	NONE							
Ref Mon # 3	NONE							
Comments								

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440110	Date Monumented 7/1/1993	Monumented By erial Data Servic	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 199,896.8029		Latitude 36 7 21.7135956
Easting (M) 243,765.1859		Longitude 93 44 8.1880116
Elevation (M)* 396.802		Ellipsoid Height (M): 368.265
		Geoid Height (M): -28.536

Northing (SFT) 655,828.0942		Location Description
Easting (SFT) 799,752.9474		STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "10" NORTH OF UNKNOWN COUNTY ROAD IN CATTLE PASTURE. STATION IS IN EAST SLOPE OF HILL.
Elevation (SFT)* 1,301.841		
Convergence Angle -1 0 35.8151558		
Scale Factor 0.999980004		
Elevation Adjust. Factor 0.9999377327		
Combined Adjust. Factor 0.9999177379		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN SOUTH FACE OF POLE		26.14	85.8	AZ Mark Station
MK # 2	60D NAIL IN NW FACE OF 3" SWEET GUM		7.77	25.5	Geodetic Azimuth
MK # 3	3" PIPE POST		8.79	28.8	Grid Azimuth

Area Reference Monuments (used for Processing) <table style="width: 100%; margin-top: 10px;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	NONE							
Ref Mon # 2	NONE							
Ref Mon # 3	NONE							
Comments								

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440112	Date Monumented 7/1/1993	Monumented By erial Data Servic	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Northing (M) 199,430.5910		Geoid Datum:
Easting (M) 244,484.8480		Latitude 36 7 7.0005504
Elevation (M)* 441.842		Longitude 93 43 39.0859068
Northing (SFT) 654,298.5306		Ellipsoid Height (M): 413.307
Easting (SFT) 802,114.0388		Geoid Height (M): -28.535
Elevation (SFT)* 1,449.610		

Convergence Angle -1 0 18.8806664	Scale Factor 0.999979337	Location Description STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "12" SET FLUSH AND IN UTILITY LINE CUT EAST OF FENCE.
Elevation Adjust. Factor 0.9999306654	Combined Adjust. Factor 0.9999100038	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN EAST FACE OF 3" OAK TREE		11.06	36.3	AZ Mark Station
MK # 2	60D NAIL IN WEST FACE OF 10" ELM TREE		12.54	41.1	Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440113	Date Monumented 7/1/1993	Monumented By Aerial Data Service	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Northing (M) 200,096.4478		Geoid Datum:
Easting (M) 244,408.2517		Latitude 36 7 28.5569436
Elevation (M)* 402.376		Longitude 93 43 42.6157788
Northing (SFT) 656,483.0958		Ellipsoid Height (M): 373.833
Easting (SFT) 801,862.7391		Geoid Height (M): -28.540
Elevation (SFT)* 1,320.129		

Convergence Angle -1 0 20.9346958	Scale Factor 0.999980316	Location Description STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "13" FLUSH AND SOUTH OF PRIVATE ROAD AND SE OF LARGE CHICKEN BARNs AND OLD FARM HOUSE.
Elevation Adjust. Factor 0.9999368581	Combined Adjust. Factor 0.9999171753	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN WEST FACE OF 6" ELM TREE		45.42	149.0	AZ Mark Station
MK # 2	60D NAIL IN NORTH FACE OF TELEPHONE P		27.95	91.7	Geodetic Azimuth
MK # 3	SOUTH OF CENTER LINE OF TRACK ROAD		4.12	13.5	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440114	Date Monumented 7/1/1993	Monumented By erial Data Servic	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Northing (M) 199,023.3470		Geoid Datum:
Easting (M) 245,022.8000		Latitude 36 6 54.0954324
Elevation (M)* 453.092		Longitude 93 43 17.2927776
Northing (SFT) 652,962.4309		Ellipsoid Height (M): 424.559
Easting (SFT) 803,878.9697		Geoid Height (M): -28.533
Elevation (SFT)* 1,486.519		

Convergence Angle -1 0 6.1992635	Scale Factor 0.999978756	Location Description STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "14".
Elevation Adjust. Factor 0.9999289001	Combined Adjust. Factor 0.9999076577	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN SOUTH FACE OF 14" PINE TREE		35.46	116.4	AZ Mark Station
MK # 2	60D NAIL IN SW FACE OF 5" ELM TREE		30.39	99.7	Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440115	Date Monumented 7/1/1993	Monumented By Aerial Data Service	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td>LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td>NGVD 29</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td>36 7 4.1458440</td> </tr> <tr> <td>Longitude</td> <td>93 43 3.9399276</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>388.527</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.537</td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality	Elevation Datum:	NGVD 29	Geoid Datum:		Latitude	36 7 4.1458440	Longitude	93 43 3.9399276	Ellipsoid Height (M):	388.527	Geoid Height (M):	-28.537
Vertical Determined By:	LEVEL - Unkown Quality															
Elevation Datum:	NGVD 29															
Geoid Datum:																
Latitude	36 7 4.1458440															
Longitude	93 43 3.9399276															
Ellipsoid Height (M):	388.527															
Geoid Height (M):	-28.537															
Horizontal Datum	NAD 83 (1986)															
Northing (M)	199,327.2409															
Easting (M)	245,362.0880															
Elevation (M)*	417.064															
Northing (SFT)	653,959.4562															
Easting (SFT)	804,992.1170															
Elevation (SFT)*	1,368.317															
Convergence Angle	0 59 58.4292517															
Scale Factor	0.999979208															
Elevation Adjust. Factor	0.9999345533															
Combined Adjust. Factor	0.9999137627															

SUPERCEDED CONTROL	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Location Description</th> </tr> <tr> <td>STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "15".</td> </tr> </table>	Location Description	STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "15".
Location Description			
STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "15".			

Location Reference Marks				
Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
MK # 1 60D NAIL IN NORTH FACE OF 20" ELM TREE		30.97	101.6	
MK # 2 60D NAIL IN SOUTH FACE OF UTILITY POLE		17.91	58.7	
MK # 3 NONE				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	NONE										
Ref Mon # 2	NONE										
Ref Mon # 3	NONE										
Comments											

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440116	Date Monumented 7/1/1993	Monumented By erial Data Servic	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Northing (M) 198,652.3369		Geoid Datum:
Easting (M) 245,931.4430		Latitude 36 6 42.5738952
Elevation (M)* 419.966		Longitude 93 42 40.7070936
Northing (SFT) 651,745.2086		Ellipsoid Height (M): 391.432
Easting (SFT) 806,860.0759		Geoid Height (M): -28.534
Elevation (SFT)* 1,377.838		

Convergence Angle 0 59 44.9100859	
Scale Factor 0.999978240	
Elevation Adjust. Factor 0.9999340980	
Combined Adjust. Factor 0.9999123394	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN 4" BRACE POST		8.66	28.4	AZ Mark Station
MK # 2	60D NAIL IN POWER POLE		13.67	44.8	Geodetic Azimuth
MK # 3	60D NAIL IN 4" BRACE POST				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440117	Date Monumented 7/1/1993	Monumented By erial Data Servic	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Northing (M) 199,177.3790		Geoid Datum:
Easting (M) 245,915.8110		Latitude 36 6 59.5972296
Elevation (M)* 412.654		Longitude 93 42 41.6969568
Northing (SFT) 653,467.7843		Ellipsoid Height (M): 384.116
Easting (SFT) 806,808.7899		Geoid Height (M): -28.538
Elevation (SFT)* 1,353.849		

Convergence Angle	0	59	45.4860864
Scale Factor	0.999979003		
Elevation Adjust. Factor	0.9999352453		
Combined Adjust. Factor	0.9999142497		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN SE FACE OF UTILITY POLE		24.08	79.0	AZ Mark Station
MK # 2	60D NAIL IN NORTH FACE OF UTILITY POLE		24.20	79.4	Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440118	Date Monumented 7/1/1993	Monumented By erial Data Servic	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Northing (M) 198,841.1270		Geoid Datum:
Easting (M) 246,763.5060		Latitude 36 6 49.1660820
Elevation (M)* 423.770		Longitude 93 42 7.5726972
Northing (SFT) 652,364.5975		Ellipsoid Height (M): 395.231
Easting (SFT) 809,589.9359		Geoid Height (M): -28.539
Elevation (SFT)* 1,390.319		

Convergence Angle 0 59 25.6292095	Scale Factor 0.999978535	Location Description STATION IS 5/8" REBAR WITH ALUMINUM CAP ON RIDGE SE OF US HIGHWAY 412 AND NORTH OF CHICKEN BARN.
Elevation Adjust. Factor 0.9999335011	Combined Adjust. Factor 0.9999120375	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN EAST FACE OF POLE		26.73	87.7	AZ Mark Station
MK # 2	60D NAIL IN EAST FACE OF POLE		43.68	143.3	Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440119	Date Monumented 7/1/1993	Monumented By Aerial Data Service	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 199,368.3920		Latitude 36 7 6.2700600
Easting (M) 246,762.9710		Longitude 93 42 7.9585452
Elevation (M)* 392.138		Ellipsoid Height (M): 363.595
Northing (SFT) 654,094.4661		Geoid Height (M): -28.543
Easting (SFT) 809,588.1807		
Elevation (SFT)* 1,286.539		

Convergence Angle	0	59	25.8537341
Scale Factor	0.999979304		
Elevation Adjust. Factor	0.9999384645		
Combined Adjust. Factor	0.9999177698		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	GAS METER		27.34	89.7	AZ Mark Station
MK # 2	60D NAIL IN NORTH		15.77	51.7	Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1: NONE Ref Mon # 2: NONE Ref Mon # 3: NONE	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 440120	Date Monumented 7/1/1993	Monumented By erial Data Servic	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 198,823.2650		Latitude 36 6 44.3652804
Easting (M) 239,412.7390		Longitude 93 47 1.4370828
Elevation (M)* 459.331		Ellipsoid Height (M): 430.831
Northing (SFT) 652,305.9953		Geoid Height (M): -28.397
Easting (SFT) 785,473.2945		
Elevation (SFT)* 1,506.988		

Convergence Angle -1 2 16.6286392	Location Description STATION 0020 IS A 5/8" REBAR-ALUMINUM CAP STAMPED "20" DRIVEN FLUSH WITH GROUND EAST OF MADISON COUNTY ROAD #475, APPROXIMATELY 500' SOUTH OF THE INTERSECTION OF COUNTY ROAD #475 AND US HIGHWAY 412.
Scale Factor 0.999978320	
Elevation Adjust. Factor 0.9999279212	
Combined Adjust. Factor 0.9999062427	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN SE FACE OF 18" OAK TREE		13.51	44.3	AZ Mark Station
MK # 2	60D NAIL IN WEST FACE OF FENCE POST		27.46	90.1	Geodetic Azimuth
MK # 3	60D NAIL IN NE FACE OF 16" WHITE OAK		13.66	44.8	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 440121	Date Monumented 7/1/1993	Monumented By erial Data Servic	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 199,293.9669		Latitude 36 6 59.6260044
Easting (M) 239,398.3560		Longitude 93 47 2.3530776
Elevation (M)* 445.399		Ellipsoid Height (M): 416.979
Northing (SFT) 653,850.2897		Geoid Height (M): -28.399
Easting (SFT) 785,426.1063		
Elevation (SFT)* 1,461.280		

Convergence Angle -1 2 17.1616558	Location Description STATION 0021 IS A 5/8" REBAR-ALUMINUM CAP STAMPED "21" DRIVEN FLUSH WITH GROUND, SW OF SECTION CORNER 19-20-30-29 AT BASE OF HILL, NORTH OF THE INTERSECTION OF US HIGHWAY 412 AND MADISON COUNTY #475.
Scale Factor 0.999979004	
Elevation Adjust. Factor 0.9999301073	
Combined Adjust. Factor 0.9999091127	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
MK # 1 SECTION CORNER 19-20-30-29				
MK # 2 60D NAIL IN N FACE OF 16" OAK TREE				Geodetic Azimuth
MK # 3 60D IN THE EAST FACE OF A HACKBERRY TREE				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 440201	Date Monumented 7/1/1993	Monumented By Aerial Data Service	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 199,016.4710		Latitude 36 6 51.1037352
Easting (M) 240,216.1480		Longitude 93 46 29.4572172
Elevation (M)* 481.832		Ellipsoid Height (M): 439.662
Northing (SFT) 652,939.8719		Geoid Height (M): -28.518
Easting (SFT) 788,109.1456		
Elevation (SFT)* 1,580.810		

Convergence Angle -1 1 58.0195833	Location Description MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP ON A 3/4" x 36" REBAR SET IN A CONCRETE POST APPROX 300' NORTH OF THE JCT OF US HIGHWAY 412 AND MADISON COUNTY ROAD 34 ON THE WEST SIDE OF HIGHWAY 34
Scale Factor 0.999978621	
Elevation Adjust. Factor 0.9999243906	
Combined Adjust. Factor 0.9999030132	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D IN WEST FACE OF CORNER POST	95	19.73	64.7	AZ Mark Station 440202A
MK # 2	60D NAIL IN A POLE	185	8.57	28.1	Geodetic Azimuth 4 17 27.02
MK # 3	NONE				Grid Azimuth 3 15 29.0

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments ADS NUMBER 440001 AHTD NUMBER 440201
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 440202A	Date Monumented 7/1/1993	Monumented By Aerial Data Service	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td>LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td>NGVD 29</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td>36 7 10.0219080</td> </tr> <tr> <td>Longitude</td> <td>93 46 28.5511656</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>439.662</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.523</td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality	Elevation Datum:	NGVD 29	Geoid Datum:		Latitude	36 7 10.0219080	Longitude	93 46 28.5511656	Ellipsoid Height (M):	439.662	Geoid Height (M):	-28.523
Vertical Determined By:	LEVEL - Unkown Quality															
Elevation Datum:	NGVD 29															
Geoid Datum:																
Latitude	36 7 10.0219080															
Longitude	93 46 28.5511656															
Ellipsoid Height (M):	439.662															
Geoid Height (M):	-28.523															
Horizontal Datum	NAD 83 (1986)															
Northing (M)	199,599.0619															
Easting (M)	240,249.3120															
Elevation (M)*	468.186															
Northing (SFT)	654,851.2556															
Easting (SFT)	788,217.9511															
Elevation (SFT)*	1,536.040															
Convergence Angle	-1 1 57.4923527															
Scale Factor	0.999979473															
Elevation Adjust. Factor	0.9999265317															
Combined Adjust. Factor	0.9999060063															

SUPERCEDED CONTROL												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)	
Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
Grid Northing (Meters)												
Grid Easting (Meters)												

Location Reference Marks											
	Description	Azimuth	Distance								
			Meters	Feet							
MK # 1	60D NAIL IN SOUTH GATE POST	5	36.39	119.4	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">AZ Mark Station</td> <td>440201</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>184 17 26.5</td> </tr> <tr> <td>Grid Azimuth</td> <td>183 15 29</td> </tr> </table>	AZ Mark Station	440201	Geodetic Azimuth	184 17 26.5	Grid Azimuth	183 15 29
AZ Mark Station	440201										
Geodetic Azimuth	184 17 26.5										
Grid Azimuth	183 15 29										
MK # 2	60D NAIL AND SHINER ON E EDGE OF PVM	330	7.06	23.1							
MK # 3	60D NAIL AND SHINER ON E EDGE OF PVM	215	6.44	21.1							

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 5px;">Comments</td> </tr> <tr> <td style="height: 80px; vertical-align: top;"> ADS NUMBER 440002A AHTD NUMBER 440202A </td> </tr> </table>	Comments	ADS NUMBER 440002A AHTD NUMBER 440202A
Ref Mon # 1	NONE								
Ref Mon # 2	NONE								
Ref Mon # 3	NONE								
Comments									
ADS NUMBER 440002A AHTD NUMBER 440202A									

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440203	Date Monumented 7/1/1993	Monumented By Aerial Data Service	County MADISON	Route 412	Job Number: 9948
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	199,679.2110	
Easting (M)	244,019.9390	
Elevation (M)*	382.436	
Northing (SFT)	655,114.2114	
Easting (SFT)	800,588.7499	
Elevation (SFT)*	1,254.709	

Convergence Angle	-1	0	29.7987990
Scale Factor	0.999979690		
Elevation Adjust. Factor	0.9999399869		
Combined Adjust. Factor	0.9999196781		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	REFLECTOR POST	170	27.38	89.8
MK # 2	PK-SHINER ON EAST SIDE OF HIGHWAY 23	205	5.94	19.5
MK # 3	PK-SHINER ON EAST SIDE OF HIGHWAY 23	335	5.11	16.7

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ADS NUMBER 440003 AHTD NUMBER 440203</td> </tr> </table>	Comments	ADS NUMBER 440003 AHTD NUMBER 440203
Comments			
ADS NUMBER 440003 AHTD NUMBER 440203			

Location Description
MONUMENT IS AN AHTD ALUMINUM CAP APPROX 100' NORTH OF GRAVEL ROAD EAST SIDE OF HIGHWAY 23 AND SOUTH OF BELOW REFERENCED MONUMENT.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440204	Date Monumented 10/20/2014	Monumented By AHTD	County MADISON	Route 23	Job Number: 090423
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	202,018.9620	0.0030			
Easting (M)	243,758.3709	0.0030			
Elevation (M)*	402.365				
Northing (SFT)	662,790.5445				
Easting (SFT)	799,730.5885				
Elevation (SFT)*	1,320.091				

Convergence Angle	-1	0	36.8443952
Scale Factor	0.999983193		
Elevation Adjust. Factor	0.9999368599		
Combined Adjust. Factor	0.9999200539		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	8	30.5509164
Longitude	93	44	9.9571704
Ellipsoid Height:	374.492		
Grid Northing (Meters)	202,018.9609		
Grid Easting (Meters)	243,758.3608		

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 23, NORTH OF HUNTSVILLE, GO NORTH ON HIGHWAY 23 1.45 MILES TO THE MARK ON THE RIGHT, 36.2 FEET NORTHEAST OF THE CENTERLINE AND SOUTHWEST 4.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 440204" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 MOCS, ARLR</p> <p>Ref Mon # 2 ARFY</p> <p>Ref Mon # 3 ARHR</p>	<p style="text-align: center;">Comments</p> <p>ELEV. FROM DIGITAL LEVELS BY S5101 IN NOV. 2014 FOR JOB #090423 FROM A SINGLE 2ND ORDER NGS BM R 51.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440204A	Date Monumented 10/20/2014	Monumented By AHTD	County MADISON	Route 23	Job Number: 090423
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	202,563.6413	0.0020			
Easting (M)	243,630.5944	0.0020			
Elevation (M)*	395.532				
Northing (SFT)	664,577.5465				
Easting (SFT)	799,311.3751				
Elevation (SFT)*	1,297.673				

Convergence Angle	-1	0	40.0417573
Scale Factor	0.999984026		
Elevation Adjust. Factor	0.9999379320		
Combined Adjust. Factor	0.9999219590		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	8	48.1467552
Longitude	93	44	15.4518468
Ellipsoid Height:	367.658		
Grid Northing (Meters)	202,563.6416		
Grid Easting (Meters)	243,630.5850		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	335	34.00	111.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 MOCS, ARLR Ref Mon # 2 ARFY Ref Mon # 3 ARHR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. FROM DIGITAL LEVELS BY S5101 IN NOV. 2014 FOR JOB #090423 FROM A SINGLE 2ND ORDER NGS BM R 51.</td> </tr> </table>	Comments	ELEV. FROM DIGITAL LEVELS BY S5101 IN NOV. 2014 FOR JOB #090423 FROM A SINGLE 2ND ORDER NGS BM R 51.
Comments			
ELEV. FROM DIGITAL LEVELS BY S5101 IN NOV. 2014 FOR JOB #090423 FROM A SINGLE 2ND ORDER NGS BM R 51.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 23, NORTH OF HUNTSVILLE, GO NORTH ON HIGHWAY 23 1.8 MILES TO THE MARK ON THE LEFT, 24.7 FEET WEST OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 51 FEET OF THE CENTERLINE OF A GRAVEL DRIVE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 440204A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	440204
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440205	Date Monumented 10/20/2014	Monumented By AHTD	County MADISON	Route 23	Job Number: 090424
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	215,428.0579 0.0020
Easting (M)	241,583.4326 0.0020
Elevation (M)*	478.691

Northing (SFT)	706,783.5533
Easting (SFT)	792,594.9785
Elevation (SFT)*	1,570.506

Convergence Angle	-1	1	33.0476155
Scale Factor	1.000005858		
Elevation Adjust. Factor	0.9999248834		
Combined Adjust. Factor	0.9999307409		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	15	44.2666152
Longitude	93	45	46.5430752
Ellipsoid Height:	450.725		
Grid Northing (Meters)	215,428.0550		
Grid Easting (Meters)	241,583.4212		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY & LIGHT	303	26.20	86.0
MK # 2	TELEPHONE BOX	202	20.40	66.9
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 MOCS, ARLR Ref Mon # 2 ARFY Ref Mon # 3 ARHR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. FROM DIGITAL LEVELS BY S5101 IN NOV. 2014 FOR JOB #090424 FROM A SINGLE 3RD ORDER NGS BM X 51 RESET.</td> </tr> </table>	Comments	ELEV. FROM DIGITAL LEVELS BY S5101 IN NOV. 2014 FOR JOB #090424 FROM A SINGLE 3RD ORDER NGS BM X 51 RESET.
Comments			
ELEV. FROM DIGITAL LEVELS BY S5101 IN NOV. 2014 FOR JOB #090424 FROM A SINGLE 3RD ORDER NGS BM X 51 RESET.			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12A
Latitude	36 15 44.2667160
Longitude	93 45 46.5426180
Ellipsoid Height (M):	450.634 0.0040
Geoid Height (M):	-28.047 0.0040

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 12 AND STATE HIGHWAY 23, NORTH OF HUNTSVILLE, GO SOUTH ON HIGHWAY 23 0.35 MILES TO THE MARK ON THE RIGHT, 21.0 FEET SOUTHWEST OF THE CENTERLINE OF THE HIGHWAY AND NORTHEAST 14.3 FEET OF FENCE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 440205" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440205A	Date Monumented 10/20/2014	Monumented By AHTD	County MADISON	Route 23	Job Number: 090424
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	216,020.6055 0.0020
Easting (M)	241,483.7923 0.0020
Elevation (M)*	494.216
Northing (SFT)	708,727.6032
Easting (SFT)	792,268.0752
Elevation (SFT)*	1,621.439

Convergence Angle	-1 1 35.6174294
Scale Factor	1.000006961
Elevation Adjust. Factor	0.9999224475
Combined Adjust. Factor	0.9999294079

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36 16 3.4295772		
Longitude	93 45 50.9592924		
Ellipsoid Height:	466.237		
Grid Northing (Meters)	216,020.6043		
Grid Easting (Meters)	241,483.7818		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	345	26.00	85.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MOCS	ELEV. FROM DIGITAL LEVELS BY S5101 IN NOV. 2014 FOR JOB #090424 FROM A SINGLE 3RD ORDER NGS BM X 51 RESET.
Ref Mon # 2 ARFY	
Ref Mon # 3 ARHR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440206	Date Monumented 10/1/2015	Monumented By AHTD	County MADISON	Route CR3415	Job Number: 090451
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	173,290.4220	0.0020			
Easting (M)	256,732.4640	0.0020			
Elevation (M)*					
Northing (SFT)	568,536.9928				
Easting (SFT)	842,296.4256				
Elevation (SFT)*					

Convergence Angle	0	55	24.1246369
Scale Factor	0.999949662		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	CENTER OF GATE	49	16.40	53.8	440206A
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	
Ref Mon # 2 ARHR	
Ref Mon # 3 ARLR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440206A	Date Monumented 10/1/2015	Monumented By AHTD	County MADISON	Route CR3415	Job Number: 090451
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	173,740.4985	0.0020			
Easting (M)	256,878.7899	0.0020			
Elevation (M)*					
Northing (SFT)	570,013.6188				
Easting (SFT)	842,776.4965				
Elevation (SFT)*					

Convergence Angle	0	55	20.8982551
Scale Factor	0.999950037		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE	35	16.20	53.1
MK # 2	NORTH END OF GATE	305	53.70	176.2
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARLR</td> </tr> </table>	Ref Mon # 1	ARFY	Ref Mon # 2	ARHR	Ref Mon # 3	ARLR	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARFY							
Ref Mon # 2	ARHR							
Ref Mon # 3	ARLR							
Comments								

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440207	Date Monumented 5/8/2017	Monumented By AHTD	County MADISON	Route SR-74	Job Number: 090430
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	188,451.5568	0.0020			
Easting (M)	228,985.0790	0.0020			
Elevation (M)*					
Northing (SFT)	618,278.1493				
Easting (SFT)	751,261.8800				
Elevation (SFT)*					

Convergence Angle	-1	6	14.5568665
Scale Factor	0.999964402		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	CMP	120	3.06	10.0	440207A
MK # 2	CP WITH TRANS	157	14.33	47.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	
Ref Mon # 2 ARHR	
Ref Mon # 3 ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440207A	Date Monumented 5/8/2017	Monumented By AHTD	County MADISON	Route SR-74	Job Number: 090430
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	188,237.1708 0.0020
Easting (M)	229,401.1697 0.0020
Elevation (M)*	

Northing (SFT)	617,574.7845	
Easting (SFT)	752,627.0043	
Elevation (SFT)*		

Convergence Angle	-1	6	4.7931273
Scale Factor	0.999964158		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-74 AND SR-295, IN WESLEY, GO EAST ON SR-74 1.9 MILES TO THE STATION ON THE LEFT. 21.6' NORTH-EAST OF THE C/L OF THE HIGHWAY, 35.6' NORTH-WEST OF ASPHALT APRON AND 29' SOUTH-WEST OF A WITNESS POST. THE MARK IS A STANDARD 2½" CAP STAMPED "440207A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	440207
Geodetic Azimuth	
Grid Azimuth	

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY</p> <p>Ref Mon # 2 ARHR</p> <p>Ref Mon # 3 ARR V</p>	<div style="border: 1px solid black; height: 100px; margin: 5px 0;"></div> <p style="text-align: center; margin: 0;">Comments</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440208	Date Monumented 4/12/2021	Monumented By ARDOT	County MADISON	Route 16	Job Number: 09X034, 090644
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	165,837.2592	0.0030			
Easting (M)	249,800.6704	0.0030			
Elevation (M)*					
Northing (SFT)	544,084.4079				
Easting (SFT)	819,554.3661				
Elevation (SFT)*					

Convergence Angle	0	58	2.0087539
Scale Factor	0.999944139		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	218	4.69	15.4
MK # 2	RIGHT OF WAY MARKER	14	19.08	62.6
MK # 3	RIGHT OF WAY MARKER	8	19.75	64.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFS Ref Mon # 2 ARFY Ref Mon # 3 ARHR, ARRV	STATIC DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON ARDOT CORS SITES ARFS, ARFY, ARHR & ARRV

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 35 49 0.1645140

Longitude 93 39 43.8700320

Ellipsoid Height (M): 524.745 0.0140

Geoid Height (M): -28.033 0.0140

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 23, NORTHEAST OF ST. PAUL, GO EAST ON HIGHWAY 16 FOR 5.4 MILES TO THE MARK ON THE RIGHT, SOUTHWEST 22.9' OF THE3 C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 440208" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 440208A	Date Monumented 4/12/2021	Monumented By ARDOT	County MADISON	Route 16	Job Number: 09X034
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	165,612.6857 0.0030
Easting (M)	250,221.0670 0.0030
Elevation (M)*	
Northing (SFT)	543,347.6197
Easting (SFT)	820,933.6173
Elevation (SFT)*	

Convergence Angle	0 57 52.1770875
Scale Factor	0.999944001
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 48 53.1086976
Longitude	93 39 26.9742060
Ellipsoid Height (M):	532.032 0.0140
Geoid Height (M):	-28.036 0.0140

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 23, NORTHEAST OF ST. PAUL, GO EAST ON HIGHWAY 16 FOR 5.7 MILES TO THE MARK ON THE RIGHT, SOUTHWEST 23' OF THE3 C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 440208A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	128	33.04	108.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFS Ref Mon # 2 ARFY Ref Mon # 3 ARHR, ARRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON ARDOT CORS SITES ARFS, ARFY, ARHR & ARRV </td> </tr> </table>	Comments	STATIC DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON ARDOT CORS SITES ARFS, ARFY, ARHR & ARRV
Comments			
STATIC DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON ARDOT CORS SITES ARFS, ARFY, ARHR & ARRV			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450001	Date Monumented 11/1/1999	Monumented By AHTD	County MARION	Route 412	Job Number: R90095,R90097
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	216,643.6870
Easting (M)	352,338.8530
Elevation (M)*	145.423
Northing (SFT)	710,771.8298
Easting (SFT)	1,155,965.0536
Elevation (SFT)*	477.109

Convergence Angle	0	18	31.3495689
Scale Factor	1.000010599		
Elevation Adjust. Factor	0.9999771789		
Combined Adjust. Factor	0.9999877777		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 178, LOCATED ON THE WEST SIDE OF FLIPPIN, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 8.45 KM (5.25 MI) TO THE WEST END OF THE BRIDGE OVER THE WHITE RIVER AND THE STATION ON THE RIGHT. THE STATION IS 9.00 METERS SOUTH OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 1.55 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "450001 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 828.120 METERS.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH IN TOP OF METAL GUARD RAIL POS	300	4.22	13.9
MK # 2	PUNCH IN TOP OF METEL GUARD RAIL POS	71	4.31	14.2
MK # 3	SOUTHWEST CORNER OF BRIDGE	85	9.65	31.7

Area Reference Monuments (used for Processing) Ref Mon # 1 HOMEPORT Ref Mon # 2 N 37 Ref Mon # 3 TRI COUNTY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450002	Date Monumented 11/1/1999	Monumented By AHTD	County MARION	Route 412	Job Number: R90095
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	214,175.2050	
Easting (M)	348,817.0140	
Elevation (M)*	208.062	
Northing (SFT)	702,673.1517	
Easting (SFT)	1,144,410.4868	
Elevation (SFT)*	682.617	

Convergence Angle	0	19	53.1361288
Scale Factor	1.000005890		
Elevation Adjust. Factor	0.9999673494		
Combined Adjust. Factor	0.9999732392		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	83	35.00	114.8
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	HOMEPORT
Ref Mon # 2	N 37
Ref Mon # 3	TRI COUNTY

Comments

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 15 44.8288740
Longitude	92 34 10.4174544
Ellipsoid Height (M):	179.681
Geoid Height (M):	-28.356

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 178, LOCATED ON THE WEST SIDE OF FLIPPIN, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 3.86 KM (2.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 37.80 METERS EAST OF A PAVED ENTRANCE TO THE CURIOSITY SHOP, 11.90 METERS NORTH OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "450002 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 394.740 METERS.</p>

AZ Mark Station	420002A
Geodetic Azimuth	280 48 49.36548
Grid Azimuth	281 08 42.42715

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450002A	Date Monumented 11/1/1999	Monumented By AHTD	County MARION	Route 412	Job Number: R90095,R90097
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 214,251.5040		Latitude 36 15 47.2312332
Easting (M) 348,429.7310		Longitude 92 34 25.9496796
Elevation (M)* 211.705		Ellipsoid Height (M): 183.312
		Geoid Height (M): -28.355

Northing (SFT) 702,923.4760		Location Description
Easting (SFT) 1,143,139.8758		<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 178, LOCATED ON THE WEST SIDE OF FLIPPIN, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 3.46 (2.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS 40.40 METERS WEST OF A GRAVEL DRIVEWAY, 13.00 METERS SOUTH OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 0.91 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "450002A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 394.740 METERS.</p>
Elevation (SFT)* 694.569		
Convergence Angle 0 20 2.1743171		
Scale Factor 1.000006028		
Elevation Adjust. Factor 0.9999667777		
Combined Adjust. Factor 0.9999728055		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE JUNCTION BOX	109	32.50	106.6	AZ Mark Station 450002
MK # 2	NONE				Geodetic Azimuth 100 48 40.17834
MK # 3	NONE				Grid Azimuth 101 08 42.42715

Area Reference Monuments (used for Processing) Ref Mon # 1 HOMEPORT Ref Mon # 2 N 37 Ref Mon # 3 TRI COUNTY	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450003	Date Monumented 11/1/1999	Monumented By AHTD	County MARION	Route 412	Job Number: R90095,R90097
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	214,233.8910
Easting (M)	344,723.0100
Elevation (M)*	240.193
Northing (SFT)	702,865.6907
Easting (SFT)	1,130,978.7420
Elevation (SFT)*	788.033

Convergence Angle	0	21	28.5783731
Scale Factor	1.000005953		
Elevation Adjust. Factor	0.9999623073		
Combined Adjust. Factor	0.9999682601		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH CORNER OF A BRICK BUILDING	15	13.20	43.3
MK # 2	CONCRETE R/W MARKER	254	8.62	28.3
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="HOMEPORT"/>	
Ref Mon # 2 <input type="text" value="N 37"/>	
Ref Mon # 3 <input type="text" value="TRI COUNTY"/>	

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude

Longitude

Ellipsoid Height (M):

Geoid Height (M):

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 14 SOUTH, LOCATED IN YELLVILLE, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 8.06KM (5.01 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.95 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 2.10 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "450003 1999" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 561.159 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450003A	Date Monumented 11/1/1999	Monumented By AHTD	County MARION	Route 412	Job Number: R90095,R90097
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	214,564.7430	
Easting (M)	345,176.2500	
Elevation (M)*	233.289	
Northing (SFT)	703,951.1610	
Easting (SFT)	1,132,465.7469	
Elevation (SFT)*	765.382	

Convergence Angle	0	21	18.0608215
Scale Factor	1.000006576		
Elevation Adjust. Factor	0.9999633907		
Combined Adjust. Factor	0.9999699664		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 14 SOUTH, LOCATED IN YELLVILLE, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 8.66 KM (5.38 MI) TO THE STATION ON THE RIGHT. THE STATION IS 40.85 METERS NORTHEAST OF THE CENTER OF A CONCRETE DRIVEWAY TO THE KINGDOM HALL OF JEHOVAH'S WITNESS CHURCH, 11.75 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 0.41 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "450003A 1999" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 561.159 METERS.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	0.55 METER PERSIMMON TREE	180	24.65	80.9
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 HOMEPORT</p> <p>Ref Mon # 2 N 37</p> <p>Ref Mon # 3 TRI COUNTY</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450004	Date Monumented 11/1/1999	Monumented By AHTD	County MARION	Route 412	Job Number: R90095
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 211,166.6520		Latitude 36 14 5.7159384
Easting (M) 341,325.8710		Longitude 92 39 9.7094412
Elevation (M)* 171.837		Ellipsoid Height (M): 143.479
		Geoid Height (M): -28.337

Northing (SFT) 692,802.5908		
Easting (SFT) 1,119,833.2951		
Elevation (SFT)* 563.769		

Convergence Angle 0 22 47.2938750		
Scale Factor 1.000000318		
Elevation Adjust. Factor 0.9999730339		
Combined Adjust. Factor 0.9999733519		

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 14 SOUTH, LOCATED IN YELLVILLE, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 3.06 KM (1.90 MI) TO THE STATION ON THE RIGHT. THE STATION IS 37.00 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 5.98 METERS SOUTHWEST OF A WITNESS POST SET IN A CHAIN LINK FENCE AROUND THE R.E. OFFICE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "450004 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 527.485 METERS.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST OF A CHAIN LINK FENCE	44	6.12	20.1
MK # 2	CORNER POST OF A CHAIN LINK FENCE	126	30.55	100.2
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 HOMEPORT</p> <p>Ref Mon # 2 N 37</p> <p>Ref Mon # 3 TRI COUNTY</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450004A	Date Monumented 11/1/1999	Monumented By AHTD	County MARION	Route 412	Job Number: R90095,009916
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 211,617.0270		Latitude 36 14 20.3860968
Easting (M) 341,600.4520		Longitude 92 38 58.8326820
Elevation (M)* 181.338		Ellipsoid Height (M): 152.952
		Geoid Height (M): -28.338

Northing (SFT) 694,280.1961		Location Description
Easting (SFT) 1,120,734.1496		<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 14 SOUTH, LOCATED IN YELLVILLE, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 3.62 KM (2.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.65 METERS SOUTH-SOUTHWEST OF THE CENTER OF A GRAVEL DRIVEWAY, 14.57 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 3.05 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "450004A 1999" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Elevation (SFT)* 594.940		
Convergence Angle 0 22 40.9646983		
Scale Factor 1.000001128		
Elevation Adjust. Factor 0.9999715430		
Combined Adjust. Factor 0.9999726709		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	GUY POLE	2	4.20	13.8	450004
MK # 2	SOUTH END OF A CMP	56	14.15	46.4	210 59 29.49539
MK # 3	NONE				211 22 10.40985

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOMEPORT	
Ref Mon # 2 N 37	
Ref Mon # 3 TRI COUNTY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450005	Date Monumented 11/1/1999	Monumented By AHTD	County MARION	Route 412	Job Number: 290095,090342,090556.009916
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 211,110.0720		Geoid Datum: Geoid 96
Easting (M) 337,241.7100		Latitude 36 14 2.9714496
Elevation (M)* 235.985		Longitude 92 41 53.2455360
Northing (SFT) 692,616.9612		Ellipsoid Height (M): 207.630
Easting (SFT) 1,106,433.8436		Geoid Height (M): -28.334
Elevation (SFT)* 774.227		

Convergence Angle 0 24 22.4553859	Location Description
Scale Factor 1.000000167	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 14 SOUTH, LOCATED IN YELLVILLE, GO WEST ON U.S. HIGHWAYS 412 AND 62 FOR 2.03 KM (1.26 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.00 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAYS 412 AND 62, 7.12 METERS SOUTHWEST OF THE CENTER OF A GRAVEL DRIVEWAY AND 1.56 METERS SOUTHWEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "450005 1999" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 489.058 METERS.</p>
Elevation Adjust. Factor 0.9999629677	
Combined Adjust. Factor 0.9999631346	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	325	9.60	31.5	450005A
MK # 2	NONE				132 38 20.05055
MK # 3	NONE				133 02 42.57201

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOMEPORT	<p>Old Elev. 235.993m or 774.2537' was updated with Elev. by S5112 in Jan. 2013 using Digital Levels from NGS 2nd Order BM N 37.</p>
Ref Mon # 2 N 37	
Ref Mon # 3 TRI COUNTY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450006	Date Monumented 1/10/2013	Monumented By AHTD	County MARION	Route 14	Job Number: 090342
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	206,895.9036	0.0167			
Easting (M)	339,329.2579	0.0148			
Elevation (M)*	202.913				
Northing (SFT)	678,790.9771				
Easting (SFT)	1,113,282.7403				
Elevation (SFT)*	665.725				

Convergence Angle	0	23	33.1380578
Scale Factor	0.999992895		
Elevation Adjust. Factor	0.9999681573		
Combined Adjust. Factor	0.9999610525		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	DOUBLE COMBINATION POLE	165	3.96	13.0
MK # 2	WATER VALVE	16	23.38	76.7
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MOBR	Elev. by S5112 in Jan. 2013 using Digital Levels from NGS 2nd Order BM N 37. **Note: Elev. from Digital Levels used as a constraint in Static Network Adjustment.
Ref Mon # 2 P777	
Ref Mon # 3 ARM3	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 09
Latitude	36 11 46.7250792
Longitude	92 40 28.4931696
Ellipsoid Height (M):	174.559 0.0155
Geoid Height (M):	-28.354

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 14 AND STATE HIGHWAY 62/412, IN YELLVILLE, GO EAST ON HIGHWAY 14 2.15 MILES TO THE STATION MARK ON THE LEFT, EAST 21 FEET OF THE CENTERLINE OF THE HIGHWAY, 21 FEET SOUTH OF THE CENTERLINE OF A ASPHALT DRIVE WAY, AND WEST 27 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "450006 2013" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450006A	Date Monumented 1/10/2013	Monumented By AHTD	County MARION	Route 14	Job Number: 090342,090556
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	207,491.6428	0.0166			
Easting (M)	339,436.2449	0.0148			
Elevation (M)*	207.251				
Northing (SFT)	680,745.4981				
Easting (SFT)	1,113,633.7468				
Elevation (SFT)*	679.955				

Convergence Angle	0	23	30.7411057
Scale Factor	0.999993901		
Elevation Adjust. Factor	0.9999674767		
Combined Adjust. Factor	0.9999613779		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	352	12.65	41.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MOBR	Elev. by S5112 in Jan. 2013 using Digital Levels from NGS 2nd Order BM N 37. **Note: Elev. from Digital Levels used as a constraint in Static Network Adjustment.
Ref Mon # 2 P777	
Ref Mon # 3 ARM3	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 09
Latitude	36 12 6.0762816
Longitude	92 40 24.3739812
Ellipsoid Height (M):	178.893 0.0152
Geoid Height (M):	-28.358

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 14 AND STATE HIGHWAY 62/412, IN YELLVILLE, GO EAST ON HIGHWAY 14 1.8 MILES TO THE STATION MARK ON THE LEFT, EAST 29.5 FEET OF THE CENTERLINE OF THE HIGHWAY, AND WEST 14 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2013 450006A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450007	Date Monumented 4/7/2015	Monumented By AHTD	County MARION	Route 178	Job Number: 090422
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	215,932.4860 0.0020
Easting (M)	345,999.2958 0.0020
Elevation (M)*	197.119
Northing (SFT)	708,438.4978
Easting (SFT)	1,135,166.0230
Elevation (SFT)*	646.715

Convergence Angle	0 20 59.0689425
Scale Factor	1.000009168
Elevation Adjust. Factor	0.9999690665
Combined Adjust. Factor	0.9999782342

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RAILROAD SIGNAL POLE	91	39.50	129.6
MK # 2	NEAREST RAIL	180	27.50	90.2
MK # 3	SOUTHEAST CORNER RR STATION	339	80.70	264.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR Ref Mon # 2 ARM3 Ref Mon # 3 P777	ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN APRIL 2015 FOR JOB #090422 FROM AHTD GPS #450003 WHICH IS BASED ON 2ND ORDER NGS BM N 37. STATIC INCLUDED A CONSTRAINT ON 2ND ORDER NGS BM C 39 FOR A VERTICAL CHECK THAT CHECKED WITHIN +0.0114'.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450007A	Date Monumented 4/7/2015	Monumented By AHTD	County MARION	Route 178	Job Number: 090422
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	216,050.7023	0.0030			
Easting (M)	346,536.7332	0.0030			
Elevation (M)*	195.709				
Northing (SFT)	708,826.3458				
Easting (SFT)	1,136,929.2655				
Elevation (SFT)*	642.089				

Convergence Angle	0	20	46.5551308		
Scale Factor	1.000009400				
Elevation Adjust. Factor	0.9999692878				
Combined Adjust. Factor	0.9999786875				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NORTHEAST CORNER 1-S-F	200	55.30	181.4	
MK # 2	NORTHWEST CORNER 1-S-F	155	60.00	196.9	
MK # 3	SOUTH OF NEAREST RAIL	180	13.00	42.7	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR Ref Mon # 2 ARM3 Ref Mon # 3 P777	ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN APRIL 2015 FOR JOB #090422 FROM AHTD GPS #450003 WHICH IS BASED ON 2ND ORDER NGS BM N 37. STATIC INCLUDED A CONSTRAINT ON 2ND ORDER NGS BM C 39 FOR A VERTICAL CHECK THAT CHECKED WITHIN -0.0024'.

Location Description					
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 178 AND STATE HIGHWAY 202W, NORTH OF FLIPPIN, GO WEST ON HIGHWAY 178 0.25 MILES TO ALFORD STREET AND TURN LEFT (EAST) AND GO 0.3 MILES TO THE MARK ON THE RIGHT, 91.7 FEET SOUTH OF THE CENTERLINE OF THE STREET. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "450007A 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.					

Vertical Determined By:	3rd Order - Digital Levels				
Elevation Datum:	NAVD 88				
Geoid Datum:	GEOID12A				
Latitude	36	16	45.2364996		
Longitude	92	35	42.2185920		
Ellipsoid Height (M):	167.274		0.0200		
Geoid Height (M):	-28.435		0.0200		

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450008	Date Monumented 4/7/2015	Monumented By AHTD	County MARION	Route 178	Job Number: 090422
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	219,692.8540	0.0030			
Easting (M)	345,511.2605	0.0020			
Elevation (M)*	200.664				
Northing (SFT)	720,775.6385				
Easting (SFT)	1,133,564.8605				
Elevation (SFT)*	658.346				

Convergence Angle	0	21	10.9878289
Scale Factor	1.000016501		
Elevation Adjust. Factor	0.9999685102		
Combined Adjust. Factor	0.9999850107		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	19	29.80	97.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARHR	ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN APRIL 2015 FOR JOB #090422 FROM AHTD GPS #450003 WHICH IS BASED ON 2ND ORDER NGS BM N 37. STATIC INCLUDED A CONSTRAINT ON 2ND ORDER NGS BM C 39 FOR A VERTICAL CHECK THAT CHECKED WITHIN -0.0267'.
Ref Mon # 2: ARM3	
Ref Mon # 3: P777	

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 178 AND STATE HIGHWAY 202W, NORTH OF FLIPPIN, GO EAST ON HIGHWAY 178 2.1 MILES TO THE MARK ON THE LEFT, 56.1 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, SOUTH 15.4 FEET OF A PRIVATE ASPHALT DRIVE AND 4.4 FEET NORTH OF A PIPE FENCE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "450008 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	450008
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450008A	Date Monumented 4/7/2015	Monumented By AHTD	County MARION	Route 178	Job Number: 090422
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	220,269.7686 0.0030
Easting (M)	345,746.7089 0.0030
Elevation (M)*	207.255

Northing (SFT)	722,668.3991	
Easting (SFT)	1,134,337.3274	
Elevation (SFT)*	679.968	

Convergence Angle	0	21	5.5785349
Scale Factor	1.000017661		
Elevation Adjust. Factor	0.9999674760		
Combined Adjust. Factor	0.9999851365		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	COMBINATION POLE WITH A GUY	3	57.90 190.0
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR	ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN APRIL 2015 FOR JOB #090422 FROM AHTD GPS #450003 WHICH IS BASED ON 2ND ORDER NGS BM N 37. STATIC INCLUDED A CONSTRAINT ON 2ND ORDER NGS BM C 39 FOR A VERTICAL CHECK THAT CHECKED WITHIN -0.0235'.
Ref Mon # 2 ARM3	
Ref Mon # 3 P777	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12A
Latitude	36 19 1.9543512
Longitude	92 36 14.9105196
Ellipsoid Height (M):	178.829 0.0200
Geoid Height (M):	-28.418 0.0200

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 178 AND STATE HIGHWAY 202W, NORTH OF FLIPPIN, GO EAST ON HIGHWAY 178 2.5 MILES TO THE MARK ON THE RIGHT, 42.1 FEET EAST OF THE CENTERLINE OF THE HIGHWAY AND 5 FEET WEST OF A FENCE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "450008A 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460001	Date Monumented 4/14/1994	Monumented By AHTD	County Miller	Route 82	Job Number: 030349, RX0018,030646
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	486,420.9245	0.0010			
Easting (M)	216,846.0492	0.0010			
Elevation (M)*	115.569				
Northing (SFT)	1,595,865.9831				
Easting (SFT)	711,435.7464				
Elevation (SFT)*	379.161				

Convergence Angle	-1	6	8.5757857
Scale Factor	0.999973730		
Elevation Adjust. Factor	0.9999818639		
Combined Adjust. Factor	0.9999555943		

SUPERCEDED CONTROL			
Horizontal Datum	NAD83 (1997)		
Latitude	33	25	47.8389000
Longitude	93	58	10.6597488
Ellipsoid Height:			
Grid Northing (Meters)	486,420.9271		
Grid Easting (Meters)	216,846.0290		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	283	14.90	48.9
MK # 2	fire hydrant	270	45.30	148.6
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 460026,460026A Ref Mon # 2 ARHP, B 307 Ref Mon # 3 TXMA, 460001	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire levels ran by crew S5102 in October 07 from 1st order NGS marks G307, B307, & C307. DIGITAL LEVELS WERE RAN FROM NGS BM K 307 BY S5102 DURING JOB 030646 IN MARCH 2025.</td> </tr> </table>	Comments	3-wire levels ran by crew S5102 in October 07 from 1st order NGS marks G307, B307, & C307. DIGITAL LEVELS WERE RAN FROM NGS BM K 307 BY S5102 DURING JOB 030646 IN MARCH 2025.
Comments			
3-wire levels ran by crew S5102 in October 07 from 1st order NGS marks G307, B307, & C307. DIGITAL LEVELS WERE RAN FROM NGS BM K 307 BY S5102 DURING JOB 030646 IN MARCH 2025.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460001A	Date Monumented 4/13/1994	Monumented By AHTD	County MILLER	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	486,357.1511	
Easting (M)	217,527.2530	
Elevation (M)*	107.201	
Northing (SFT)	1,595,656.7532	
Easting (SFT)	713,670.6626	
Elevation (SFT)*	351.709	

Convergence Angle	-1	5	53.7926140
Scale Factor	0.999973814		
Elevation Adjust. Factor	0.9999831770		
Combined Adjust. Factor	0.9999569914		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	73	23.70	77.8
MK # 2	PIPELINE CROSSING SIGN	233	4.50	14.8
MK # 3	SOUTHWEST CORNER OF RC BOX HEADW	58	33.70	110.6

Area Reference Monuments (used for Processing) Ref Mon # 1 HOPEPORT Ref Mon # 2 X 303 Ref Mon # 3 GARLAND	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">AZ Mark Station</th> <td style="text-align: center;">460001</td> </tr> <tr> <th style="text-align: center;">Geodetic Azimuth</th> <td style="text-align: center;">274 17 01.35193</td> </tr> <tr> <th style="text-align: center;">Grid Azimuth</th> <td style="text-align: center;">275 22 55.26042</td> </tr> </table> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>	AZ Mark Station	460001	Geodetic Azimuth	274 17 01.35193	Grid Azimuth	275 22 55.26042
AZ Mark Station	460001						
Geodetic Azimuth	274 17 01.35193						
Grid Azimuth	275 22 55.26042						

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 25 46.1937972
Longitude	93 57 44.2458540
Ellipsoid Height (M):	79.717
Geoid Height (M):	-27.484

Location Description
FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 3.89 KM (2.41 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 17.0 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 28.5 METERS EAST OF A PAVED DRIVEWAY AND 1.70 METERS NORTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460002	Date Monumented 4/14/1994	Monumented By AHTD	County MILLER	Route 82	Job Number: RX0018,030497,030646
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	486,308.2567	0.0030			
Easting (M)	219,957.4608	0.0030			
Elevation (M)*	120.047				

Northing (SFT)	1,595,496.3389				
Easting (SFT)	721,643.7693				
Elevation (SFT)*	393.856				

Convergence Angle	-1	5	1.1278358		
Scale Factor	0.999973818				
Elevation Adjust. Factor	0.9999811610				
Combined Adjust. Factor	0.9999549795				

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)				
Latitude	33	25	46.1211132		
Longitude	93	56	10.1365440		
Ellipsoid Height:	92.575				
Grid Northing (Meters)	486,308.6261				
Grid Easting (Meters)	219,957.8060				

Location Description

FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 6.46 KM (4.02 MILES) TO THE STATION ON THE LEFT. THE STATION IS 15.2 METERS NORTH OF THE CENTERLINE OF HWY. 82, 32 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 28.4 METERS SOUTHWEST OF THE DOOR OF A ONE STORY FRAME HOUSE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 12" PERSIMMON TREE	57	17.00	55.8
MK # 2	RIGHT OF WAY MONUMENT	274	22.30	73.2
MK # 3	NBC IN 12" DOUBLE GUM TREE	18	22.30	73.2

AZ Mark Station	460002A
Geodetic Azimuth	91 23 07.667279
Grid Azimuth	92 28 08.690259

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM (HOPEPORT)	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 & CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM&ARHP. ELEV UPDATED BASED ON DIGITAL LEVEL RUN FROM NGS BMS K307 AND D307 BY CREW S5102 DURING JOB 030646 IN MARCH OF 2025
Ref Mon # 2 ARHP (GARLAND)	
Ref Mon # 3 TXMA (X 303)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460002A	Date Monumented 4/14/1994	Monumented By AHTD	County MILLER	Route 82	Job Number: RX0018,030497,030646
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	486,283.5375 0.0030
Easting (M)	220,530.9259 0.0030
Elevation (M)*	110.637

Northing (SFT)	1,595,415.2393
Easting (SFT)	723,525.2127
Elevation (SFT)*	362.982

Convergence Angle	-1	4	48.6949546
Scale Factor	0.999973841		
Elevation Adjust. Factor	0.9999826377		
Combined Adjust. Factor	0.9999564792		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	33	25	45.6700764
Longitude	93	55	47.9229276
Ellipsoid Height:	83.177		
Grid Northing (Meters)	486,283.8981		
Grid Easting (Meters)	220,531.2650		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN LIGHT POLE	309		12.30	40.4
MK # 2	TELEPHONE JUNCTION BOX	73		25.40	83.3
MK # 3	NONE				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARCM (HOPEPORT)</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHP (GARLAND)</td> </tr> <tr> <td>Ref Mon # 3</td> <td>TXMA (X 303)</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARCM (HOPEPORT)	Ref Mon # 2	ARHP (GARLAND)	Ref Mon # 3	TXMA (X 303)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 & CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM & ARHP.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 & CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM & ARHP.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARCM (HOPEPORT)										
Ref Mon # 2	ARHP (GARLAND)										
Ref Mon # 3	TXMA (X 303)										
Comments											
ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 & CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM & ARHP.											

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12A
Latitude	33 25 45.6581676
Longitude	93 55 47.9357904
Ellipsoid Height (M):	83.730 0.0050
Geoid Height (M):	-26.898 0.0050

Location Description
<p>FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 7.03 KM (4.37 MILES) TO THE STATION ON THE LEFT. THE STATION 15 METERS NORTH OF THE CENTERLINE OF HWY. 82, 25.5 METERS EAST OF THE CENTER OF A DRIVEWAY, 18.30 METERS WEST OF THE CENTER OF A DRIVEWAY, 20.3 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF A ONE STORY FRAME HOUSE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

AZ Mark Station	460002
Geodetic Azimuth	271 23 19.90498
Grid Azimuth	272 28 08.69026

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460003	Date Monumented 4/14/1994	Monumented By AHTD	County MILLER	Route 82	Job Number: RX0018,030497,030646
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	486,168.7658	0.0030			
Easting (M)	224,152.7361	0.0030			
Elevation (M)*	84.076				
Northing (SFT)	1,595,038.6925				
Easting (SFT)	735,407.7684				
Elevation (SFT)*	275.840				

Convergence Angle	-1	3	30.1904985
Scale Factor	0.999973919		
Elevation Adjust. Factor	0.9999868059		
Combined Adjust. Factor	0.9999607252		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	33	25	44.1386184
Longitude	93	53	27.6584892
Ellipsoid Height:	56.629		
Grid Northing (Meters)	486,169.1081		
Grid Easting (Meters)	224,153.0860		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	72	8.70	28.5
MK # 2	PLASTIC GAS LINE MARKING SIGN	272	18.00	59.1
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARCM (HOPEPORT)</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHP (GARLAND)</td> </tr> <tr> <td>Ref Mon # 3</td> <td>TXMA (X 303)</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARCM (HOPEPORT)	Ref Mon # 2	ARHP (GARLAND)	Ref Mon # 3	TXMA (X 303)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 & CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM & ARHP.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 & CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM & ARHP.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARCM (HOPEPORT)										
Ref Mon # 2	ARHP (GARLAND)										
Ref Mon # 3	TXMA (X 303)										
Comments											
ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 & CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM & ARHP.											

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12A
Latitude	33 25 44.1273000
Longitude	93 53 27.6717876
Ellipsoid Height (M):	57.170 0.0050
Geoid Height (M):	-26.903 0.0050

Location Description
<p>FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 10.734 KM (6.67 MILES) TO THE STATION ON THE LEFT. THE STATION IS 16.5 METERS NORTH OF THE INTERSECTION OF CO. RD. NO. 15 (LEADING SOUTH) WITH HWY. 82 AND 1.90 METERS SOUTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460003" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460003A	Date Monumented 4/14/1994	Monumented By AHTD	County MILLER	Route 82	Job Number: RX0018,030497,030646
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	486,154.1075 0.0030
Easting (M)	224,519.8010 0.0030
Elevation (M)*	85.523

Northing (SFT)	1,594,990.6010
Easting (SFT)	736,612.0471
Elevation (SFT)*	280.587

Convergence Angle	-1 3 22.2330288
Scale Factor	0.999973932
Elevation Adjust. Factor	0.9999865788
Combined Adjust. Factor	0.9999605112

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)
Latitude	33 25 43.8818448
Longitude	93 53 13.4392164
Ellipsoid Height:	58.073
Grid Northing (Meters)	486,154.4211
Grid Easting (Meters)	224,520.1930

Location Description

 FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 11.09 KM (6.89 MILES) TO THE STATION ON THE LEFT. THE STATION IS 16.4 METERS NORTH OF THE CENTERLINE OF HWY. 82 AND 1.40 METERS SOUTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460003A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 NOAA BENCH MARK # D 307	84	35.00	114.8	AZ Mark Station 460003
MK # 2 TELEPHONE JUNCTION BOX	268	42.90	140.7	Geodetic Azimuth 271 14 05.22773
MK # 3 NONE				Grid Azimuth 272 17 27.51488

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM (HOPEPORT) Ref Mon # 2 ARHP (GARLAND) Ref Mon # 3 TXMA (X 303)	<div style="border: 1px solid black; padding: 5px;"> Comments ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 & CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM & ARHP. </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460004	Date Monumented 4/14/1994	Monumented By AHTD	County MILLER	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 485,605.8072		Latitude 33 25 26.9533272
Easting (M) 225,990.4090		Longitude 93 52 16.1465628
Elevation (M)* 81.991		Ellipsoid Height (M): 54.549
Northing (SFT) 1,593,191.7191		Geoid Height (M): -27.442
Easting (SFT) 741,436.8669		
Elevation (SFT)* 268.999		

Convergence Angle -1 2 50.1584963	Location Description
Scale Factor 0.999974795	<p>FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 12.67 KM (7.87 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 16.6 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 21.5 METERS WEST OF A DRIVEWAY AND 1.28 METERS NORTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460004" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 0.9999871331	
Combined Adjust. Factor 0.9999619284	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	277	17.80	58.4
MK # 2	CENTER OF DOUBLE GATE TO FIELD	100	21.50	70.5
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 HOPE PORT</p> <p>Ref Mon # 2 GARLAND</p> <p>Ref Mon # 3 X 303</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460004A	Date Monumented 4/14/1994	Monumented By AHTD	County MILLER	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 485,709.5322		Geoid Datum:
Easting (M) 225,611.4120		Latitude 33 25 30.0944820
Elevation (M)* 82.567		Longitude 93 52 30.8883180
Northing (SFT) 1,593,532.0236		Ellipsoid Height (M): 55.122
Easting (SFT) 740,193.4409		Geoid Height (M): -27.445
Elevation (SFT)* 270.889		

Convergence Angle -1 2 58.4093194	Location Description FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 12.27 KM (7.63 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 19.9 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 10.0 METERS EAST OF A DRIVEWAY AND 0.85 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460004A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.
Scale Factor 0.999974634	
Elevation Adjust. Factor 0.9999870427	
Combined Adjust. Factor 0.9999616770	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	117	8.90	29.2
MK # 2	TELEPHONE JUNCTION BOX	283	21.55	70.7
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 460004	THE COORDINATES ON THIS STATION WERE ARRIVED AT BY SOLAR OBSERVATION.
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460005	Date Monumented 4/14/1994	Monumented By AHTD	County MILLER	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	484,846.9141	
Easting (M)	228,186.5020	
Elevation (M)*	76.005	
Northing (SFT)	1,590,701.9173	
Easting (SFT)	748,641.8820	
Elevation (SFT)*	249.360	

Convergence Angle	-1	2	2.2908082
Scale Factor	0.999975996		
Elevation Adjust. Factor	0.9999880725		
Combined Adjust. Factor	0.9999640688		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NBC IN POWER POLE	276	30.10	98.8	Geodetic Azimuth	83 26 38.004366
MK # 2	NBC IN FENCE CORNER W/RAILROAD TIE P OSTS	90	18.60	61.0	Grid Azimuth	84 28 40.21834
MK # 3	NONE					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	
Ref Mon # 2 GARLAND	
Ref Mon # 3 X 303	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460006	Date Monumented 4/14/1994	Monumented By AHTD	County MILLER	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	484,259.8361	
Easting (M)	232,174.3420	
Elevation (M)*	70.634	
Northing (SFT)	1,588,775.8123	
Easting (SFT)	761,725.3204	
Elevation (SFT)*	231.738	

Convergence Angle	-1	0	35.6893273
Scale Factor	0.999976866		
Elevation Adjust. Factor	0.9999889153		
Combined Adjust. Factor	0.9999657816		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN FENCE CORNER MADE W/RAILROAD	270	16.60	54.5
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	HOPEPORT
Ref Mon # 2	GARLAND
Ref Mon # 3	X 303

Comments

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 24 46.8747936

Longitude 93 48 15.8903424

Ellipsoid Height (M): 43.236

Geoid Height (M): -27.398

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 134 ON THE WEST EDGE OF GARLAND CITY, GO WEST ON HWY. 82 FOR 11.67 KM (7.25 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 17.30 METERS NORTH OF THE CENTERLINE OF HWY. 82, 22.8 METERS EAST OF THE CENTER OF CO. RD. NO. 27 AND 1.0 METERS SOUTH OF A WITNESS POST AND A FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460006" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460006A	Date Monumented 4/14/1994	Monumented By AHTD	County MILLER	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	484,189.5331	
Easting (M)	232,978.9730	
Elevation (M)*	70.198	
Northing (SFT)	1,588,545.1598	
Easting (SFT)	764,365.1806	
Elevation (SFT)*	230.308	

Convergence Angle	-1	0	18.2350831
Scale Factor	0.999976961		
Elevation Adjust. Factor	0.9999889838		
Combined Adjust. Factor	0.9999659450		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN GATE POST	92	16.80	55.1
MK # 2	TELEPHONE JUNCTION BOX	263	28.30	92.8
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>HOPEPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>GARLAND</td> </tr> <tr> <td>Ref Mon # 3</td> <td>X 303</td> </tr> </table>	Ref Mon # 1	HOPEPORT	Ref Mon # 2	GARLAND	Ref Mon # 3	X 303	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	HOPEPORT							
Ref Mon # 2	GARLAND							
Ref Mon # 3	X 303							
Comments								

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 24 45.0524088

Longitude 93 47 44.7048240

Ellipsoid Height (M): 42.805

Geoid Height (M): -27.393

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 134 IN NORTHWEST GARLAND CITY, GO WEST ON HWY. 82 FOR 10.86 KM (6.75 MILES) TO THE STATION ON THE LEFT. THE STATION IS 16.9 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 22.4 METERS EAST OF THE CENTER OF CO. RD. NO. 61, 12.2 METERS NORTHEAST OF THE NORTHEAST CORNER OF A ONE STORY BRICK BUILDING AND 0.77 METERS NORTH OF A WITNESS POST AND A FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460006A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

AZ Mark Station	460006
Geodetic Azimuth	273 59 17.90401
Grid Azimuth	274 59 36.27983

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460007	Date Monumented 4/13/1994	Monumented By AHTD	County MILLER	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	484,060.2561	
Easting (M)	235,360.3030	
Elevation (M)*	69.939	
Northing (SFT)	1,588,121.0236	
Easting (SFT)	772,177.9274	
Elevation (SFT)*	229.458	

Convergence Angle	0	59	26.6094322
Scale Factor	0.999977110		
Elevation Adjust. Factor	0.9999890244		
Combined Adjust. Factor	0.9999661347		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	170	2.20	7.2
MK # 2	SOUTH-SOUTHWEST HEADWALL OF RC BO	30	12.90	42.3
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 HOPEPORT Ref Mon # 2 GARLAND Ref Mon # 3 X 303	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 24 42.2030016
Longitude	93 46 12.4652136
Ellipsoid Height (M):	42.561
Geoid Height (M):	-27.378

Location Description
FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO WEST ON HWY. 82 FOR 8.449 KM (5.25 MILES) TO THE STATION ON ON THE LEFT. THE STATION IS 17.25 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 5.8 METERS EAST OF A FIELD ENTRANCE AND 1.85 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460007" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460007A	Date Monumented 4/13/1994	Monumented By AHTD	County MILLER	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 484,091.3951		Latitude 33 24 42.8645844
Easting (M) 234,739.6210		Longitude 93 46 36.5051352
Elevation (M)* 69.650		Ellipsoid Height (M): 42.268
		Geoid Height (M): -27.382

Northing (SFT) 1,588,223.1854		
Easting (SFT) 770,141.5732		
Elevation (SFT)* 228.510		

Convergence Angle 0 59 40.0643524		
Scale Factor 0.999977075		
Elevation Adjust. Factor 0.9999890698		
Combined Adjust. Factor 0.9999661450		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	95	8.60	28.2
MK # 2	WEST END OF METAL CULVERT UNDER FI	63	15.50	50.9
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	
Ref Mon # 2 GARLAND	
Ref Mon # 3 X 303	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460008	Date Monumented 4/14/1994	Monumented By AHTD	County MILLER	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 483,763.7101		Latitude 33 24 33.9163416
Easting (M) 237,760.9770		Longitude 93 44 39.3684396
Elevation (M)* 70.866		Ellipsoid Height (M): 43.506
Northing (SFT) 1,587,148.1056		Geoid Height (M): -27.360
Easting (SFT) 780,054.1387		
Elevation (SFT)* 232.500		

Convergence Angle 0 58 34.5040348	Location Description
Scale Factor 0.999977544	<p>FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO WEST ON HWY. 82 FOR 5.874 KM (3.65 MILES) TO THE INTERSECTION WITH HWY. 296 TO THE RIGHT AND THE STATION ON THE RIGHT. THE STATION IS 47.4 METERS NORTHEAST OF THE CENTERLINE OF HWY. 82, 26.5 METERS SOUTHEAST OF THE CENTERLINE OF HWY. 296 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460008" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 0.9999888789	
Combined Adjust. Factor 0.9999664232	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN 12" HACKBERRY USED AS FENCE P	120	22.00	72.2	AZ Mark Station 460008A
MK # 2	NONE				Geodetic Azimuth 182 22 37.48196
MK # 3	NONE				Grid Azimuth 183 21 11.99156

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 HOPEPORT</p> <p>Ref Mon # 2 GARLAND</p> <p>Ref Mon # 3 X 303</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460008A	Date Monumented 4/14/1994	Monumented By AHTD	County MILLER	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	483,004.3532				
Easting (M)	237,716.4830				
Elevation (M)*	70.205				
Northing (SFT)	1,584,656.7821				
Easting (SFT)	779,908.1613				
Elevation (SFT)*	230.331				

Convergence Angle	0	58	35.1873916
Scale Factor	0.999978845		
Elevation Adjust. Factor	0.9999889827		
Combined Adjust. Factor	0.9999678279		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL GATE POST	347	4.50	14.8
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	
Ref Mon # 2 GARLAND	
Ref Mon # 3 X 303	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 24 9.2473740
Longitude	93 44 40.5893940
Ellipsoid Height (M):	42.851
Geoid Height (M):	-27.354

Location Description
<p>FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO WEST ON HWY. 82 FOR 5.15 KM (3.20 MILES) TO THE STATION ON THE LEFT. THE STATION IS 16.2 METERS WEST OF THE CENTERLINE OF HWY. 82, 6.7 METERS SOUTH OF A DRIVEWAY TO A SHOP BUILDING AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460008A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460009	Date Monumented 4/14/1994	Monumented By AHTD	County MILLER	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	480,320.2951	
Easting (M)	238,458.8490	
Elevation (M)*	69.808	
Northing (SFT)	1,575,850.8348	
Easting (SFT)	782,343.7404	
Elevation (SFT)*	229.028	

Convergence Angle	0	58	18.1243538
Scale Factor	0.999983529		
Elevation Adjust. Factor	0.9999890450		
Combined Adjust. Factor	0.9999725741		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	181	29.40	96.5
MK # 2	TELEPHONE JUNCTION BOX	354	19.00	62.3
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPEPORT	
Ref Mon # 2 GARLAND	
Ref Mon # 3 X 303	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 22 42.5479116
Longitude	93 44 10.1028444
Ellipsoid Height (M):	42.482
Geoid Height (M):	-27.326

Location Description
<p>FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO WEST ON HWY. 82 FOR 2.092 KM (1.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 18.8 METERS WEST OF THE CENTERLINE OF HWY. 82, 10.5 METERS EAST OF A GRAVEL ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460009" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460009A	Date Monumented 4/14/1994	Monumented By AHTD	County MILLER	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	479,931.1461	
Easting (M)	238,907.5180	
Elevation (M)*	69.626	
Northing (SFT)	1,574,574.1018	
Easting (SFT)	783,815.7486	
Elevation (SFT)*	228.431	

Convergence Angle	0	58	8.2679200
Scale Factor	0.999984212		
Elevation Adjust. Factor	0.9999890735		
Combined Adjust. Factor	0.9999732857		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WESTERN MOST PIPE POST IN GATE AREA	105	12.25	40.2
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	HOPEPORT
Ref Mon # 2	GARLAND
Ref Mon # 3	X 303

Comments

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 22 30.1649880

Longitude 93 43 52.4923428

Ellipsoid Height (M): 42.306

Geoid Height (M): -27.320

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO WEST ON HWY. 82 FOR 1.448 KM (0.90 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 19.8 METERS NORTH OF THE CENTERLINE OF HWY. 82, 19.6 METERS WEST OF THE CENTER OF A FIELD ENTRANCE AND 0.80 METERS SOUTH OF A WITNESS POST AND FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460009A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460010	Date Monumented 	Monumented By erial Data Servic	County MILLER	Route I-49	Job Number: NA
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 482,691.8131		Geoid Datum:
Easting (M) 212,435.5590		Latitude 33 23 44.0318112
Elevation (M)* 101.291		Longitude 94 0 58.5208296
Northing (SFT) 1,583,631.3901		Ellipsoid Height (M): 73.823
Easting (SFT) 696,965.6632		Geoid Height (M): -27.468
Elevation (SFT)* 332.319		

Convergence Angle -1 7 42.5265085	Location Description 3/4" X 36' REBAR WITH AN AHTD ALUMINUM CAP SET ON THE EAST SIDE OF HWY. 71, ACROSS FROM A1 SALVAGE. NOTE: TARGET 160 IS APPROX. 300' SSW OF STATION.
Scale Factor 0.999980189	
Elevation Adjust. Factor 0.9999841044	
Combined Adjust. Factor 0.9999642937	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN THE SOUTH FACE OF POLE	040 00 00	40.66	133.4	AZ Mark Station 460010A
MK # 2	60D BAIL I BASE OF A POLE	210 00 00	22.68	74.4	Geodetic Azimuth 310 27 23.00
MK # 3					Grid Azimuth 309 19 40.00

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460010A	Date Monumented 	Monumented By erial Data Servic	County MILLER	Route I-49	Job Number: NA
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum: 		
Northing (M) 483,199.2862		Latitude 33 24 0.1040292
Easting (M) 211,816.1610		Longitude 94 1 22.8726084
Elevation (M)* 95.807		Ellipsoid Height (M): 68.330
		Geoid Height (M): -27.477

Northing (SFT) 1,585,296.3248		
Easting (SFT) 694,933.5215		
Elevation (SFT)* 314.327		

Convergence Angle -1 7 56.1559723		
Scale Factor 0.999979331		
Elevation Adjust. Factor 0.9999849650		
Combined Adjust. Factor 0.9999642963		

SUPERCEDED CONTROL		
Horizontal Datum 		
Latitude 		
Longitude 		
Ellipsoid Height: 		
Grid Northing (Meters) 		
Grid Easting (Meters) 		

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	60D NAIL IN EAST FACE OF POLE	300 00 00	80.89	265.4	AZ Mark Station 460010
MK # 2	60D NAIL IN NORTH FACE OF POLE	140 00 00	13.15	43.1	Geodetic Azimuth 130 27 36.00
MK # 3	60D NAIL IN NORTH FACE OF POLE	180 00 00	32.19	105.6	Grid Azimuth 129 19 40.00

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460011	Date Monumented 	Monumented By erial Data Servic	County MILLER	Route I-49	Job Number: NA
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 480,964.1062		Geoid Datum:
Easting (M) 213,036.9200		Latitude 33 22 48.3468888
Elevation (M)* 91.399		Longitude 94 0 33.9426324
Northing (SFT) 1,577,963.0718		Ellipsoid Height (M): 63.956
Easting (SFT) 698,938.6284		Geoid Height (M): -27.444
Elevation (SFT)* 299.865		

Convergence Angle -1 7 28.7703204	Scale Factor 0.999983210	Location Description 2 1/2" AHTD ALUMINUM CAP-GPS SURVEY-STAMPED "460011" AND SET ON A 3/4" X 36" REBAR. AND IS IN A CONCRETE POST 0.7 MILES SOUTH FROM JCT. OF HWY. 71 AND COUNTY ROAD 47.
Elevation Adjust. Factor 0.9999856567	Combined Adjust. Factor 0.9999688670	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	TO CORNER POST	020 00 00		51.21	168.0	AZ Mark Station 960011A
MK # 2	BENT 40D NAIL IN EAST FACE OF CORNER POST	190 00 00		25.39	83.3	Geodetic Azimuth 001 49 49.80
MK # 3	TO WITNESS POST	270 00 00		2.77	9.1	Grid Azimuth 001 42 21.00

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460011A	Date Monumented 	Monumented By erial Data Servic	County MILLER	Route I-49	Job Number: NA
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum: 		
Northing (M) 481,390.1721		Latitude 33 23 2.1819552
Easting (M) 213,049.6090		Longitude 94 0 33.7753368
Elevation (M)* 89.545		Ellipsoid Height (M): 62.081
Northing (SFT) 1,579,360.9230		Geoid Height (M): -27.464
Easting (SFT) 698,980.2589		
Elevation (SFT)* 293.782		

Convergence Angle -1 7 28.6766866	Location Description 2 1/2" AHTD ALUMINUM CAP-GPSSURVEY-SET ON A 3/4" X 36" REBAR AND SET IN A CONCRETE POST. 0.5 MILE SOUTH OF JCT. OF HWY. 71 AND COUNTY ROAD 47-3.5' NORTH OF SOUTH END OF GUARD RAIL.
Scale Factor 0.999982453	
Elevation Adjust. Factor 0.9999859477	
Combined Adjust. Factor 0.9999684009	

SUPERCEDED CONTROL	
Horizontal Datum 	
Latitude 	
Longitude 	
Ellipsoid Height: 	
Grid Northing (Meters) 	
Grid Easting (Meters) 	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CHISELED + ON TOP AR S. END OF BRIDGE	000 00 00	15.24	50.0	AZ Mark Station 460011
MK # 2	AHTD 2 1/2" ALUM. BENCH MARK DISC	020 00 00	17.77	58.3	Geodetic Azimuth 181 49 49.70
MK # 3	40D NAIL IN TOP OF 9" CREOSOTE POST	190 00 00	11.52	37.8	Grid Azimuth 181 42 21.00

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460012	Date Monumented 	Monumented By erial Data Servic	County MILLER	Route I-49	Job Number: NA
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum: 		
Northing (M) 477,731.3361		Latitude 33 21 4.1200488
Easting (M) 214,115.8360		Longitude 93 59 49.7681016
Elevation (M)* 99.473		Ellipsoid Height (M): 72.031
		Geoid Height (M): -27.442

Northing (SFT) 1,567,356.8919		
Easting (SFT) 702,478.3719		
Elevation (SFT)* 326.354		

Convergence Angle -1 7 4.0462469		
Scale Factor 0.999989058		
Elevation Adjust. Factor 0.9999843897		
Combined Adjust. Factor 0.9999734479		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks				
	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	60D NAIL IN A 10" PINE	030 00 00	27.83	91.3
MK # 2	40D NAIL IN A 12" PINE	105 00 00	21.58	70.8
MK # 3	TO TARGET #142	180 00 00	30.45	99.9

AZ Mark Station 460012A	
Geodetic Azimuth 005 00 30.00	
Grid Azimuth 003 53 26.00	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 	
Ref Mon # 2 	
Ref Mon # 3 	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460012A	Date Monumented 	Monumented By erial Data Servic	County MILLER	Route I-49	Job Number: NA
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum: 		
Northing (M) 478,583.1091		Latitude 33 21 31.7990736
Easting (M) 214,173.7570		Longitude 93 59 48.1708716
Elevation (M)* 97.869		Ellipsoid Height (M): 70.414
		Geoid Height (M): -27.454

Northing (SFT) 1,570,151.4171		
Easting (SFT) 702,668.4011		
Elevation (SFT)* 321.090		

Convergence Angle -1 7 3.1522922		
Scale Factor 0.999987481		
Elevation Adjust. Factor 0.9999846415		
Combined Adjust. Factor 0.9999721227		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks				
Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 TO MAILBOX RT. 1 BOX 1610	260 00 00	16.25	53.3	AZ Mark Station 460012
MK # 2 TO TELEPHONE RISER	015 00 00	3.51	11.5	Geodetic Azimuth 185 00 29.20
MK # 3 TO WITNESS POLE	090 00 00	1.71	5.6	Grid Azimuth 183 53 26.00

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460013	Date Monumented 	Monumented By erial Data Servic	County MILLER	Route I-49	Job Number: NA
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 476,807.7851		Geoid Datum:
Easting (M) 215,950.5820		Latitude 33 20 35.3042376
Elevation (M)* 88.472		Longitude 93 58 38.1302760
Northing (SFT) 1,564,326.8749		Ellipsoid Height (M): 61.049
Easting (SFT) 708,497.8678		Geoid Height (M): -27.431
Elevation (SFT)* 290.262		

Convergence Angle -1 6 23.9512231	Location Description 2 1/2" AHTD ALUMINUM CAP ON A 3/4" X 36" REBAR AND SET IN A CONCRETE POST-STAMPED "460013"- TO REACH FROM JCT. OF HWY. 237 AND CR 234-GO EAST ON 234 1.0 MILE TO A CURVE NORTH-CONTINUE N. 0.2 MILE TO A DIRT RD. EAST-TURN RT. AND GO 0.25 MILE TO A PIPELINE CLEARING-0.15 MILE TO STATION.
Scale Factor 0.999990720	
Elevation Adjust. Factor 0.9999861161	
Combined Adjust. Factor 0.9999768362	

SUPERCEDED CONTROL	
Horizontal Datum 	
Latitude 	
Longitude 	
Ellipsoid Height: 	
Grid Northing (Meters) 	
Grid Easting (Meters) 	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	40D NAIL IN THE EAST FACE OF A 12" PINE	295 00 00	26.30	86.3	AZ Mark Station 460013A
MK # 2	"T" POST ON THE N. SIDE OF DEER STAND	220 00 00	8.23	27.0	Geodetic Azimuth 204 35 21.00
MK # 3					Grid Azimuth 203 28 57.00

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	Comments <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460013A	Date Monumented 	Monumented By erial Data Servic	County MILLER	Route I-49	Job Number: NA
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum: 		
Northing (M) 476,457.6621		Latitude 33 20 23.8463628
Easting (M) 215,798.4710		Longitude 93 58 43.7500056
Elevation (M)* 88.746		Ellipsoid Height (M): 61.329
Northing (SFT) 1,563,178.1797		Geoid Height (M): -27.428
Easting (SFT) 707,998.8169		
Elevation (SFT)* 291.161		

Convergence Angle -1 6 27.0965335	
Scale Factor 0.999991386	
Elevation Adjust. Factor 0.9999860731	
Combined Adjust. Factor 0.9999774592	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks				
Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 40D NAIL IN THE EAST FACE OF 7" PINE	320 00 00	26.67	87.5	AZ Mark Station 460013
MK # 2 TO TARGET 136	150 00 00	13.27	43.5	Geodetic Azimuth 024 35 24.10
MK # 3 40D NAIL IN THE W. FACE OF A 10" WALNU	080 00 00	37.22	122.1	Grid Azimuth 023 28 57.00

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460016A	Date Monumented 	Monumented By erial Data Servic	County MILLER	Route I-49	Job Number: NA
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum: 		
Northing (M) 464,661.1090		Latitude 33 14 6.1070244
Easting (M) 224,110.4050		Longitude 93 53 13.9621668
Elevation (M)* 79.761		Ellipsoid Height (M): 52.526
		Geoid Height (M): -27.303

Northing (SFT) 1,524,475.6551	Easting (SFT) 735,268.8871	Location Description 2 1/2" AHTD ALUMINUM CAP SET ON A 3/4" X 36" REBAR IN CONCRETE, 0.1' BELOW THE GROUND, STAMPED "460016A" IN THE WEST R/W OF HWY. 71. -1.7 MILES SOUTH OF JCT. COUNTY ROAD 9 IN FOUKE OR 0.7 MILE NORTH OF JCT. OF HWY. 71 AND HWY. 134.
Elevation (SFT)* 261.683		

Convergence Angle -1 3 22.5173514	Scale Factor 1.000015045	
Elevation Adjust. Factor 0.9999874831	Combined Adjust. Factor 1.0000025279	

SUPERCEDED CONTROL				
Horizontal Datum 				
Latitude 				
Longitude 				
Ellipsoid Height: 				
Grid Northing (Meters) 				
Grid Easting (Meters) 				

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	TO CENTERLINE OF HWY. 71	090 00 00	17.98	59.0	Geodetic Azimuth	004 00 53.50
MK # 2	TO 40D NAIL IN NE FACE OF CEDAR TREE	250 00 00	31.23	102.4	Grid Azimuth	002 57 31.00
MK # 3	TO 40D NAIL IN TOP OF CORNERPOST	320 00 00	11.73	38.5		

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460017	Date Monumented 	Monumented By erial Data Servic	County MILLER	Route I-49	Job Number: NA
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum: 		
Northing (M) 463,509.8100		Latitude 33 13 29.1288900
Easting (M) 224,755.3070		Longitude 93 52 48.2409876
Elevation (M)* 77.715		Ellipsoid Height (M): 50.809
		Geoid Height (M): -26.906

Northing (SFT) 1,520,698.4350		
Easting (SFT) 737,384.7030		
Elevation (SFT)* 254.970		

Convergence Angle -1 3 8.1214470		
Scale Factor 1.000017539		
Elevation Adjust. Factor 0.9999878041		
Combined Adjust. Factor 1.0000053429		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks				
	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TO P. K. AND SHINER	340 00 00	7.44	24.4
MK # 2	TO 60D NAIL IN A POWER POLE	100 00 00	22.74	74.6
MK # 3	TO 60D NAIL IN 6" BENT OAK TREE	194 00 00	12.74	41.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 	
Ref Mon # 2 	
Ref Mon # 3 	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460017A	Date Monumented 	Monumented By erial Data Servic	County MILLER	Route I-49	Job Number: NA
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum: 		
Northing (M) 463,489.5820		Latitude 33 13 28.8592968
Easting (M) 225,405.5370		Longitude 93 52 23.1193452
Elevation (M)* 77.861		Ellipsoid Height (M): 50.961
		Geoid Height (M): -26.900

Northing (SFT) 1,520,632.0703		
Easting (SFT) 739,517.9993		
Elevation (SFT)* 255.449		

Convergence Angle -1 2 54.0610977		
Scale Factor 1.000017558		
Elevation Adjust. Factor 0.9999877812		
Combined Adjust. Factor 1.0000053390		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks				
Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 TO 60D NAIL IN A POWER POLE	070 00 00	12.54	41.2	AZ Mark Station 460017
MK # 2 TO 60D NAIL IN A 12" PINE	160 00 00	13.78	45.2	Geodetic Azimuth 272 49 48.10
MK # 3 TO 60D NAIL IN A 30" OAK TREE	315 00 00	27.92	91.6	Grid Azimuth 271 46 51.00

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460018	Date Monumented 	Monumented By erial Data Servic	County MILLER	Route I-49	Job Number: NA
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 460,814.1450		Geoid Datum:
Easting (M) 224,852.7760		Latitude 33 12 1.7042040
Elevation (M)* 76.978		Longitude 93 52 42.5672004
Northing (SFT) 1,511,854.4074		Ellipsoid Height (M): 50.077
Easting (SFT) 737,704.4826		Geoid Height (M): -26.901
Elevation (SFT)* 252.552		

Convergence Angle -1 3 4.9458811	Scale Factor 1.000023562	Location Description 5/8" REBAT -2 1/2" AHTD ALUMINUM CAP SET IN CONCRETE, STAMPED "460018A" AND SET ON THE EAST SIDE OF HWY. 71. - TO REACH FROM THE INTERSECTION OF HWY. 71 AND 160 AT DODDRIDGE FO NORTH 7.9 MILES TO THE STATION ON THE RIGHT.
Elevation Adjust. Factor 0.9999879198	Combined Adjust. Factor 1.0000114815	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	TO 60D NAIL IN POST AT TELE. RISER		025 00 00	22.80	74.8
MK # 2	60D NAIL IN WEST FACE OF 8" ELM TREE		120 00 00	21.31	69.9
MK # 3	TO THE EDGE OF HWY. 71		270 00 00	3.32	10.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 	
Ref Mon # 2 	
Ref Mon # 3 	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460018A	Date Monumented 	Monumented By erial Data Servic	County MILLER	Route I-49	Job Number: NA
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 461,220.5870		Geoid Datum:
Easting (M) 224,649.8550		Latitude 33 12 14.7735756
Elevation (M)* 77.702		Longitude 93 52 50.6886528
Northing (SFT) 1,513,187.8758		Ellipsoid Height (M): 50.843
Easting (SFT) 737,038.7326		Geoid Height (M): -26.859
Elevation (SFT)* 254.927		

Convergence Angle -1 3 9.4913824	Scale Factor 1.000022650	Location Description 5/8" REBAR -2 1/2" AHTD ALUMINUM CAP SET IN CONCRETE, AND IS ON THE WEST SIDE OF HWY. 71. -TO REACH FROM INT. OF HWY/ 71 AND 160 AR DODRIDGE FO NORTH 8.15 MILES TO THE STATION ON THE LEFT.
Elevation Adjust. Factor 0.9999878062	Combined Adjust. Factor 1.0000104559	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	TO MAILBOX	195 00 00		18.01	59.1
MK # 2	TO "RED" GAS PIPE	275 00 00		13.30	43.6
MK # 3	TO 60D NAIL IN A 20" PINE TREE	315 00 00		23.20	76.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460019	Date Monumented 	Monumented By erial Data Servic	County MILLER	Route I-49	Job Number: I-49
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum: 		
Northing (M) 457,811.4560		Latitude 33 10 24.0449016
Easting (M) 224,495.6270		Longitude 93 52 54.2230428
Elevation (M)* 75.646		Ellipsoid Height (M): 48.694
		Geoid Height (M): -26.952

Northing (SFT) 1,502,003.0852		
Easting (SFT) 736,532.7362		
Elevation (SFT)* 248.182		

Convergence Angle -1 3 11.4695476		
Scale Factor 1.000030498		
Elevation Adjust. Factor 0.9999881288		
Combined Adjust. Factor 1.0000186265		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks				
	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TO 60D NAIL IN A FENCE POST	170 00 00	6.77	22.2
MK # 2	TO P. K. AND SHINER AT EDGE OF HWY. 71	285 00 00	4.45	14.6
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 	
Ref Mon # 2 	
Ref Mon # 3 	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460019A	Date Monumented	Monumented By	County MILLER	Route I-49	Job Number: I-49
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Zone	Zone Code	Vertical Determined By:
Arkansas South	302	LEVEL - Unkown Quality
Horizontal Datum	NAD 83 (1986)	
Northing (M)	457,546.4440	
Easting (M)	224,331.6070	
Elevation (M)*	74.146	
Northing (SFT)	1,501,133.6250	
Easting (SFT)	735,994.6140	
Elevation (SFT)*	243.261	

Convergence Angle	-1	3	14.9067988
Scale Factor	1.000031127		
Elevation Adjust. Factor	0.9999883642		
Combined Adjust. Factor	1.0000194908		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	TO MAILBOX	165 00 00		45.87	150.5
MK # 2	TO 60D NAIL IN TOP OF FENCE POST	280 00 00		9.14	30.0
MK # 3	TO 60D NAIL IN A 4" PINE TREE	315 00 00		12.13	39.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460020	Date Monumented	Monumented By erial Data Servic	County MILLER	Route I-49	Job Number: I-49
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 453,519.2680		Geoid Datum:
Easting (M) 223,097.4910		Latitude 33 8 3.9137352
Elevation (M)* 64.397		Longitude 93 53 45.1089960
Northing (SFT) 1,487,921.1318		Ellipsoid Height (M): 37.547
Easting (SFT) 731,945.6851		Geoid Height (M): -26.849
Elevation (SFT)* 211.276		

Convergence Angle -1 3 39.9499417	Location Description 5/8" REBAR -2 1/2" AHTD ALUMINUM CAP SET IN A CONCRETE AND IS STAMPED "460020", SET ON THE EAST SIDE OF HWY. 71, TO REACH FROM THE INTERSECTION OF HWY. 71 AND 160 AT DODRIDGE GO NORTH 3.65 MILES TO THE STATION ON THE RIGHT. THE STATION IS 3.4' WEST OF AHTD WITNESS POST.
Scale Factor 1.000040838	
Elevation Adjust. Factor 0.9999898941	
Combined Adjust. Factor 1.0000307317	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TO 60D NAIL IN POWER POLE	060 00 00	11.96	39.2	AZ Mark Station 460020A
MK # 2	TO P. K. AND SHINER	275 00 00	19.29	63.3	Geodetic Azimuth 196 09 00.90
MK # 3					Grid Azimuth 195 05 26.00

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 150px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460020A	Date Monumented	Monumented By Aerial Data Service	County MILLER	Route I-49	Job Number: I-49
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 453,519.2680		Geoid Datum:
Easting (M) 223,097.4910		Latitude 33 8 3.9137352
Elevation (M)* 68.230		Longitude 93 53 45.1089960
Northing (SFT) 1,487,921.1318		Ellipsoid Height (M): 41.387
Easting (SFT) 731,945.6851		Geoid Height (M): -26.843
Elevation (SFT)* 223.851		

Convergence Angle -1 3 39.9499417	Location Description 5/8" REBAR -2 1/2" AHTD ALUMINUM CAP SET IN CONCRETE AND ON THE WEST SIDE OF HWY. 71, SOUTH OF BRIDGE 0.85 MILE AND NORTH OF RENE'S DOLLS AND CRAFTS, 1.9' EAST OF AHTD WITNESS POST. -TO REACH FROM THE INTERSECTION OF HWY. 71 AND 160 AT DODDRIDGE GO NORTH FOR 3.0 MILES TO THE STATION.
Scale Factor 1.000040838	
Elevation Adjust. Factor 0.9999892926	
Combined Adjust. Factor 1.0000301302	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TO SIGN POST "SCHOOL BUS STOP AHEAD"	195 00 00	12.50	41.0	460020
MK # 2	TO 60D NAIL IN TOP OF FENCE POST	270 00 00	16.61	54.5	016 09 05.90
MK # 3	TO 60D NAIL IN A 4" ELM 6' HIGH	300 00 00	17.89	58.7	015 05 26.00

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	Comments
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460021	Date Monumented	Monumented By Aerial Data Service	County MILLER	Route I-49	Job Number: I-49
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 451,936.9899		Latitude 33 7 12.5494932
Easting (M) 223,072.6000		Longitude 93 53 44.9387052
Elevation (M)* 102.743		Ellipsoid Height (M): 75.855
		Geoid Height (M): -26.858

Northing (SFT) 1,482,729.9410		
Easting (SFT) 731,864.0218		
Elevation (SFT)* 337.083		

Convergence Angle -1 3 39.8546315		
Scale Factor 1.000044742		
Elevation Adjust. Factor 0.9999838765		
Combined Adjust. Factor 1.0000286178		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

5/8" REBAR -2 1/2" AHTD ALUMINUM CAP SET IN CONCRETE ON THE EAST SIDE OF HWY. 71 AND IS STAMPED "460021", -TO REACH FRROM THE INTERSECTION OF HWY. 71 AND 160 AT DODRIDGE GO NORTH FOR 1.95 MILES TO THE STATION ON THE RIGHT.

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	TO 60D NAIL IN FENCE POST	091 00 00		3.26	10.7
MK # 2	TO R/W MARKER	135 00 00		3.06	10.0
MK # 3	TO 60D NAIL IN CORNER POST	185 00 00		1.46	4.8

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460021A	Date Monumented 	Monumented By erial Data Servic	County MILLER	Route I-49	Job Number: I-49
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 451,479.0799		Geoid Datum:
Easting (M) 222,796.8780		Latitude 33 6 57.5232192
Elevation (M)* 90.431		Longitude 93 53 55.2446124
Northing (SFT) 1,481,227.6146		Ellipsoid Height (M): 63.594
Easting (SFT) 730,959.4239		Geoid Height (M): -26.837
Elevation (SFT)* 296.689		

Convergence Angle -1 3 45.6227518	Location Description 5/8" REBAR -2 1/2" AHTD ALUMINUM CAP SET IN CONCRETE ON THE WEST SIDE OF HWY. 71 AND IS STAMPED "460021A". - 1.5' EAST OF AHTD WITNESS POST, -TO REACH FROM THE INT. OF HWY. 71 AND 160 AT DODRIDGE GO NORTH FOR 1.60 MILES TO THE STATION ON THE LEFT.
Scale Factor 1.000045895	
Elevation Adjust. Factor 0.9999858086	
Combined Adjust. Factor 1.0000317030	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TO 60D NAIL IN POST AT TELE. RISER	000 00 00	5.73	18.8	AZ Mark Station 460021
MK # 2	TO MAILBOX	055 00 00	6.98	22.9	Geodetic Azimuth 032 06 58.60
MK # 3					Grid Azimuth 031 03 13.00

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460022	Date Monumented 4/8/2003	Monumented By Aerial Data Service	County MILLER	Route 160	Job Number: R30079
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	448,738.6230	
Easting (M)	223,375.0110	
Elevation (M)*		
Northing (SFT)	1,472,236.6323	
Easting (SFT)	732,856.1819	
Elevation (SFT)*		

Convergence Angle	-1	3	32.0510407
Scale Factor	1.000052802		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TO 60D NAIL IN A 10" PINE TREE	190 00 00	12.77	41.9
MK # 2	TO TELE. CABLE SIGN POLE	215 00 00	8.99	29.5
MK # 3	TO P. K. AND SHINER AT EDGE OF HWY. 16	285 00 00	5.61	18.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEW BOSTON; LA GPS 8 & 9	ADS states elevation is 85.895 meter but has no documentation.
Ref Mon # 2 AHTD HOPE	
Ref Mon # 3 AHTD TEXARKANA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460022A	Date Monumented 4/8/2003	Monumented By Aerial Data Service	County MILLER	Route 160	Job Number: R30079
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	448,818.2549	
Easting (M)	223,729.9400	
Elevation (M)*		
Northing (SFT)	1,472,497.8913	
Easting (SFT)	734,020.6448	
Elevation (SFT)*		

Convergence Angle	-1	3	24.4241352
Scale Factor	1.000052582		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TO SIGN POLE	085 00 00	5.11	16.7
MK # 2	TO TELEPHONE RISER	135 00 00	9.05	29.7
MK # 3	TO AHTD R/W POST	225 00 00	11.92	39.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEW BOSTON; LA GPS 8 & 9 Ref Mon # 2 AHTD HOPE Ref Mon # 3 AHTD TEXARKANA	ADS states elevation is 94.745 meter but has no documentation.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460023A	Date Monumented 4/8/2003	Monumented By Aerial Data Service	County MILLER	Route 71	Job Number: R30079
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	447,260.5009	
Easting (M)	222,636.4250	
Elevation (M)*		
Northing (SFT)	1,467,387.1600	
Easting (SFT)	730,433.0044	
Elevation (SFT)*		

Convergence Angle	-1	3	47.3962025
Scale Factor	1.000056654		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TO MAILBOX	080 00 00	13.05	42.8
MK # 2	TO AERIAL TARGET 3501	210 00 00	6.10	20.0
MK # 3	TO 60D NAIL IN 12" PINE TREE 5' HIGH	315 00 00	24.42	80.1

Area Reference Monuments (used for Processing) Ref Mon # 1 NEW BOSTON; LA GPS 8 & 9 Ref Mon # 2 AHTD HOPE Ref Mon # 3 AHTD TEXARKANA	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">AZ Mark Station</th> <td style="text-align: center;">460023</td> </tr> <tr> <th style="text-align: center;">Geodetic Azimuth</th> <td style="text-align: center;">341 41 46.40</td> </tr> <tr> <th style="text-align: center;">Grid Azimuth</th> <td style="text-align: center;">340 37 59.00</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ADS states elevation is 71.566 meter but has no documentation.</td> </tr> </table>	AZ Mark Station	460023	Geodetic Azimuth	341 41 46.40	Grid Azimuth	340 37 59.00	Comments	ADS states elevation is 71.566 meter but has no documentation.
AZ Mark Station	460023								
Geodetic Azimuth	341 41 46.40								
Grid Azimuth	340 37 59.00								
Comments									
ADS states elevation is 71.566 meter but has no documentation.									

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460025	Date Monumented 2/10/2003	Monumented By AHTD	County MILLER	Route 296	Job Number: 030295,30108,030100
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	492,925.4272	
Easting (M)	215,938.5240	
Elevation (M)*	98.776	
Northing (SFT)	1,617,206.1724	
Easting (SFT)	708,458.3075	
Elevation (SFT)*	324.069	

Convergence Angle	-1	6	30.9617889
Scale Factor	0.999963565		
Elevation Adjust. Factor	0.9999844990		
Combined Adjust. Factor	0.9999480646		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	280	7.50	24.6
MK # 2	TELEPHONE JUNCTION BOX	290	7.30	24.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 NEW BOSTON Ref Mon # 2 De QUEEN CORS Ref Mon # 3 AHTD HOPE, TEXARKANA	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003</td> </tr> </table>	Comments	3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003
Comments			
3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003			

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 29 18.3608124
Longitude	93 58 50.6560620
Ellipsoid Height (M):	71.847
Geoid Height (M):	-26.869

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 296 WEST LOCATED NORTHEAST OF TEXARKANA, GO WEST ON STATE HIGHWAY 296 FOR 1.05 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.20 METERS EAST OF AN ASPHALT DRIVE, 9.85 METERS NORTH OF THE CENTER OF STATE HIGHWAY 296, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460025 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460025A	Date Monumented 2/10/2003	Monumented By AHTD	County MILLER	Route 296	Job Number: 030295,30108,030100
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	492,957.2191	
Easting (M)	215,168.2280	
Elevation (M)*	91.023	
Northing (SFT)	1,617,310.4763	
Easting (SFT)	705,931.0947	
Elevation (SFT)*	298.631	

Convergence Angle	-1	6	47.6731324
Scale Factor	0.999963540		
Elevation Adjust. Factor	0.9999857158		
Combined Adjust. Factor	0.9999492563		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	FIRE HYDRANT	291	4.70	15.4	
MK # 2	POWER POLE	282	19.20	63.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEW BOSTON Ref Mon # 2 De QUEEN CORS Ref Mon # 3 AHTD HOPE, TEXARKANA	3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460026	Date Monumented 2/10/2003	Monumented By AHTD	County MILLER	Route 245	Job Number: 06,030295,030108,030342,03
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	487,135.4872	
Easting (M)	213,625.8400	
Elevation (M)*	107.464	
Northing (SFT)	1,598,210.3443	
Easting (SFT)	700,870.7767	
Elevation (SFT)*	352.572	

Convergence Angle	-1	7	18.6366504
Scale Factor	0.999972662		
Elevation Adjust. Factor	0.9999831357		
Combined Adjust. Factor	0.9999557981		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	GUY WIRE	350	10.90	35.8	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEW BOSTON	3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003
Ref Mon # 2 De QUEEN CORS	
Ref Mon # 3 AHTD HOPE, TEXARKANA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460026A	Date Monumented 2/10/2003	Monumented By AHTD	County MILLER	Route 245	Job Number: 06,030295,030108,030342,03
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	487,802.5442	
Easting (M)	213,525.0560	
Elevation (M)*	107.397	
Northing (SFT)	1,600,398.8471	
Easting (SFT)	700,540.1212	
Elevation (SFT)*	352.352	

Convergence Angle	-1	7	21.1031918
Scale Factor	0.999971583		
Elevation Adjust. Factor	0.9999831462		
Combined Adjust. Factor	0.9999547297		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 245 LOCATED IN TEXARKANA, GO SOUTH ON STATE HIGHWAY 245 FOR 0.45 MILES TO THE STATION ON THE LEFT ACROSS THE DIVIDED HIGHWAY SET ATOP A HIGH BANK. THE STATION IS 22.4 METERS EAST OF THE EDGE OF THE ASPHALT AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED " 460026A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 NEW BOSTON</p> <p>Ref Mon # 2 De QUEEN CORS</p> <p>Ref Mon # 3 AHTD HOPE, TEXARKANA</p>	<p style="text-align: center;">Comments</p> <p>3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460027	Date Monumented 2/11/2003	Monumented By AHTD	County MILLER	Route I 30	Job Number: \$06,030295,30108,030100, 030
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	491,387.8509	0.0010	
Easting (M)	212,599.7291	0.0010	
Elevation (M)*	104.304		

Northing (SFT)	1,612,161.6408		
Easting (SFT)	697,504.2779		
Elevation (SFT)*	342.204		

Convergence Angle	-1	7	42.6809637
Scale Factor	0.999965981		
Elevation Adjust. Factor	0.9999836316		
Combined Adjust. Factor	0.9999496131		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	33	28	26.3465508
Longitude	94	0	58.7976912
Ellipsoid Height:	77.373		
Grid Northing (Meters)	491,387.8521		
Grid Easting (Meters)	212,599.7060		

Location Description			
TO REACH THE STATION FROM THE TEXAS / ARKANSAS STATE LINE IN TEXARKANA, GO EAST ON I 30 FOR 1.60 MILES TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 8.80 METERS SOUTH OF THE EDGE OF WEST BOUND LAND, 7.20 METERS NORTH OF THE EDGE OF EAST BOUND LANE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460027 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM (NEW BOSTON) Ref Mon # 2 ARDQ (De QUEEN CORS) Ref Mon # 3 ARHP, TXMV (AHTD HOPE, T	Comments SUPERCEDED ELEVATION 104.2879m BY 3-WIRE LOOP FROM NGS C 1497 IN JOB 030295 IN 2003 & SUPERCEDED GEOID HT. -26.857m. *****UPDATE D ELEV. BASED ON DIGITAL LEVELS BY CREW S5103 IN NOV. 2022 FOR JOB #030575 FROM TBM #902 FROM JOB #030477 WHICH WAS BASED ON DIGITAL LEVELS BY CREW S5112 IN SEPT. 2020 FROM NGS PUBLISHED 1ST ORDER BMs H 307, A 1497 & B 1497
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460027A	Date Monumented 2/11/2003	Monumented By AHTD	County MILLER	Route I 30	Job Number: 030306,030295,30108,030100
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	491,283.5811	
Easting (M)	212,141.7010	
Elevation (M)*	108.290	
Northing (SFT)	1,611,819.5490	
Easting (SFT)	696,001.5640	
Elevation (SFT)*	355.282	

Convergence Angle	-1	7	52.5634257
Scale Factor	0.999966154		
Elevation Adjust. Factor	0.9999830060		
Combined Adjust. Factor	0.9999491606		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	END GUARD RAIL POST	91	22.20	72.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEW BOSTON	ELEVATION BY 3-WIRE LOOP FROM NGS C 1497 IN JOB 030295 IN 2003. Mark is disturbed as per S5103 in Nov 2006
Ref Mon # 2 De QUEEN CORS	
Ref Mon # 3 AHTD HOPE, TEXARKANA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460028	Date Monumented 2/11/2003	Monumented By AHTD	County MILLER	Route N/A	Job Number: 30108,030295
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	496,376.1651	
Easting (M)	210,702.8260	
Elevation (M)*	82.536	
Northing (SFT)	1,628,527.4683	
Easting (SFT)	691,280.8550	
Elevation (SFT)*	270.786	

Convergence Angle	-1	8	25.9458512
Scale Factor	0.999958722		
Elevation Adjust. Factor	0.9999870476		
Combined Adjust. Factor	0.9999457702		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CORRIGATED METAL PIPE	213	4.70	15.4	
MK # 2	CONCRETE HEAD WALL	100	26.50	86.9	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEW BOSTON Ref Mon # 2 De QUEEN CORS Ref Mon # 3 AHTD HOPE, TEXARKANA	3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460028A	Date Monumented 2/11/2003	Monumented By AHTD	County MILLER	Route 71	Job Number: 030295,30108
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	496,372.3912	
Easting (M)	210,175.2900	
Elevation (M)*	82.541	
Northing (SFT)	1,628,515.0868	
Easting (SFT)	689,550.0973	
Elevation (SFT)*	270.805	

Convergence Angle	-1	8	37.3836907
Scale Factor	0.999958742		
Elevation Adjust. Factor	0.9999870467		
Combined Adjust. Factor	0.9999457893		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	25	17.80	58.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 NEW BOSTON Ref Mon # 2 De QUEEN CORS Ref Mon # 3 AHTD HOPE, TEXARKANA	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003</td> </tr> </table>	Comments	3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003
Comments			
3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003			

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 59 /71 AND STATE HIGHWAY 296 LOCATED NORTH OF TEXARKANA, GO NORTH ON U.S. HIGHWAY 59 /71 FOR 2.00 MILES TO THE JUNCTION OF MILLER COUNTY ROAD 55 AND THE STATION ON THE RIGHT. THE STATION IS 45.30 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71, 16.30 METERS SOUTH OF THE CENTER OF MILLER COUNTY ROAD 55, AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460028A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	31	6.5475840
Longitude	94	2	36.5342208
Ellipsoid Height (M):	55.595		
Geoid Height (M):	-26.900		

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460029	Date Monumented 4/8/2003	Monumented By AHTD	County MILLER	Route 71	Job Number: R30079,030313
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	443,293.1929	
Easting (M)	222,992.8920	
Elevation (M)*	73.335	
Northing (SFT)	1,454,371.0837	
Easting (SFT)	731,602.5132	
Elevation (SFT)*	240.600	

Convergence Angle	-1	3	38.1210594
Scale Factor	1.000067143		
Elevation Adjust. Factor	0.9999884915		
Combined Adjust. Factor	1.0000556337		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	44	20.00	65.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	NEW BOSTON; LA GPS 8 & 9
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 2 31.9881192

Longitude 93 53 41.8413300

Ellipsoid Height (M): 46.915

Geoid Height (M): -26.420

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 71 AND HIGHWAY 160, SOUTH OF TEXARKANA, GO SOUTH ON HIGHWAY 71 FOR 3.55 MILES TO THE STATION ON THE RIGHT, 12.0 METERS WEST OF THE CENTERLINE AND 0.50 WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "460029 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	460029A
Geodetic Azimuth	352 13 16
Grid Azimuth	353 16 55

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460029A	Date Monumented 4/8/2003	Monumented By AHTD	County MILLER	Route 71	Job Number: R30079,030313
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Zone Arkansas South	Zone Code 302	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 443,805.9629		Geoid Datum:
Easting (M) 222,932.4900		Latitude 33 2 48.5924496
Elevation (M)* 70.036		Longitude 93 53 44.5346016
Northing (SFT) 1,456,053.3966		Ellipsoid Height (M): 43.611
Easting (SFT) 731,404.3443		Geoid Height (M): -26.425
Elevation (SFT)* 229.776		

Convergence Angle -1 3 39.6284585	Scale Factor 1.000065766	Location Description TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 71 AND HIGHWAY 160, SOUTH OF TEXARKANA, GO SOUTH ON HIGHWAY 71 3.25 MILES TO THE STATION ON THE RIGHT, 11.4 METERS SOUTHWEST OF THE CENTERLINE OF THE HIGHWAY AND 4.05 FEET NORTHEAST OF A WITNESS POST. THE STAION MARK IS A STANDARD 64mm CAP STAMPED "460029A 2003" ON TOP OF AN IRON ROD DRIVEN FLUSH WITH THE GROUND.
Elevation Adjust. Factor 0.9999890092	Combined Adjust. Factor 1.0000547745	

SUPERCEDED CONTROL			
Horizontal Datum		Latitude	
Longitude		Ellipsoid Height:	
Grid Northing (Meters)		Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	268	4.00	13.1
MK # 2	TELEPHONE RISER	195	10.40	34.1
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEW BOSTON; LA GPS 8 & 9	
Ref Mon # 2 AHTD HOPE	
Ref Mon # 3 AHTD TEXARKANA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460030	Date Monumented 7/28/2004	Monumented By AHTD	County MILLER	Route 71	Job Number: XA0302,030342,030463
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	484,892.4631	
Easting (M)	211,192.9600	
Elevation (M)*	92.007	
Northing (SFT)	1,590,851.3560	
Easting (SFT)	692,888.9029	
Elevation (SFT)*	301.860	

Convergence Angle	-1	8	10.3784817
Scale Factor	0.999976461		
Elevation Adjust. Factor	0.9999855613		
Combined Adjust. Factor	0.9999620226		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	LIGHT POLE	169	5.60	18.4	
MK # 2	NORTHWEST CORNER OF BRICK BUILDING	46	21.20	69.6	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 IULM, DQUA Ref Mon # 2 AHTD HOPE Ref Mon # 3 AHTD TEXARKANA	Comments 3-wire levels were ran from G307 by B&F Engineering in Job R30052 in May 2005.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460030A	Date Monumented 7/28/2004	Monumented By AHTD	County MILLER	Route 71	Job Number: XA0302,030342,030463
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	484,244.4561	
Easting (M)	211,145.5610	
Elevation (M)*	100.142	
Northing (SFT)	1,588,725.3531	
Easting (SFT)	692,733.3947	
Elevation (SFT)*	328.550	

Convergence Angle	-1	8	11.1266695
Scale Factor	0.999977561		
Elevation Adjust. Factor	0.9999842847		
Combined Adjust. Factor	0.9999618460		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE WITH RED LIGHTS	175	11.10	36.4
MK # 2	PAY PHONE	262	22.30	73.2
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 IULM, DQUA Ref Mon # 2 AHTD HOPE Ref Mon # 3 AHTD TEXARKANA	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire levels were ran from G307 by B&F Engineering in Job R30052 in May 2005.</td> </tr> </table>	Comments	3-wire levels were ran from G307 by B&F Engineering in Job R30052 in May 2005.
Comments			
3-wire levels were ran from G307 by B&F Engineering in Job R30052 in May 2005.			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 24 33.5915928
Longitude	94 1 49.6207704
Ellipsoid Height (M):	73.306
Geoid Height (M):	-26.808

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 196, IN TEXARKANA, GO SOUTH ON HIGHWAY 71 10.50 MILES TO THE STATION MARK ON THE RIGHT, WEST 11.30 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 17.2 METERS OF FOREST STREET AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460030A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	460030
Geodetic Azimuth	3 02 49
Grid Azimuth	4 11 01

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460030A-TX	Date Monumented 5/19/2003	Monumented By NTB	County TX / BOWIE	Route N/A	Job Number: 030295
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	496,617.4062	
Easting (M)	203,951.8500	
Elevation (M)*		
Northing (SFT)	1,629,318.9402	
Easting (SFT)	669,132.0279	
Elevation (SFT)*		

Convergence Angle	-1	10	52.4448253
Scale Factor	0.999958575		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 559, NORTH OF PLEASANT GROVE COMMUNITY, GO NORTH ON HWY 559 FOR 4.1 MILES TO THE JUNCTION OF HWY 559 AND 2308 (SPARKS ROAD) TURN LEFT (WEST) ON SPARKS ROAD AND GO 1.65 MILES TO THE STATION ON THE LEFT. 7.0 METERS SOUTH OF THE C/L OF SPARKS ROAD, 13.0 METERS FROM THE CENTER OF A GRAVEL DRIVE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460030A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1					AZ Mark Station	460030
MK # 2					Geodetic Azimuth	76 34 02
MK # 3					Grid Azimuth	77 44 54

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEW BOSTON Ref Mon # 2 De QUEEN CORS Ref Mon # 3 AHTD HOPE, TEXARKANA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460030-TX	Date Monumented 5/19/2003	Monumented By NTB	County TX / BOWIE	Route N/A	Job Number: 030295
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	496,741.6912	
Easting (M)	204,524.1980	
Elevation (M)*		
Northing (SFT)	1,629,726.6985	
Easting (SFT)	671,009.8063	
Elevation (SFT)*		

Convergence Angle	-1	10	40.0890398
Scale Factor	0.999958385		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 559, NORTH OF THE PLEASANT GROVE COMMUNITY, GO NORTH ON HWY 559 FOR 4.1 MILES TO THE JUNCTION OF HWY 559 AND CR 2308 (SPARKS ROAD) TURN LEFT (WEST) ON SPARKS ROAD AND GO 1.3 MILES TO THE STATION ON THE LEFT. 7.0 METERS SOUTH OF THE C/L OF SPARKS ROAD, 18 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 23.0 METERS NORTHWEST OF A POWERPOLE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460030 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 NEW BOSTON Ref Mon # 2 De QUEEN CORS Ref Mon # 3 AHTD HOPE, TEXARKANA	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460031	Date Monumented 7/28/2004	Monumented By AHTD	County MILLER	Route 237	Job Number: XA0302
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	483,745.2371	
Easting (M)	215,976.9550	
Elevation (M)*	113.228	
Northing (SFT)	1,587,087.4987	
Easting (SFT)	708,584.3932	
Elevation (SFT)*	371.481	

Convergence Angle	-1	6	26.2822997
Scale Factor	0.999978252		
Elevation Adjust. Factor	0.9999822312		
Combined Adjust. Factor	0.9999604836		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 AND STATE HIGHWAY 196, EAST OF TEXARKANA, GO SOUTH ON HIGHWAY 237 0.25 MILES TO THE STATION MARK ON THE RIGHT, WEST 8.00 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460031 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	FIRE HYDRANT	212	2.10	6.9	460031A
MK # 2	NORTHEAST CORNER BAPTIST CHURCH	205	26.20	86.0	3 27 11
MK # 3	LIGHT POLE	242			4 33 37

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 IULM, DQUA</p> <p>Ref Mon # 2 AHTD HOPE</p> <p>Ref Mon # 3 AHTD TEXARKANA</p>	<p style="text-align: center; margin: 0;">Comments</p> <p>3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460031A	Date Monumented 7/28/2004	Monumented By AHTD	County MILLER	Route 237	Job Number: XA0302
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	484,111.3241	
Easting (M)	216,006.1540	
Elevation (M)*	112.823	
Northing (SFT)	1,588,288.5692	
Easting (SFT)	708,680.1902	
Elevation (SFT)*	370.153	

Convergence Angle	-1	6	25.8031718
Scale Factor	0.999977626		
Elevation Adjust. Factor	0.9999822947		
Combined Adjust. Factor	0.9999599211		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	DIESEL PUMP	109	18.20	59.7
MK # 2	TELEPHONE RISER	178	24.85	81.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 IULM, DQUA	3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.
Ref Mon # 2 AHTD HOPE	
Ref Mon # 3 AHTD TEXARKANA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460031A-TX	Date Monumented 5/19/2003	Monumented By NTB	County TX / BOWIE	Route N/A	Job Number: 030295
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	496,722.9992	
Easting (M)	200,152.0600	
Elevation (M)*		
Northing (SFT)	1,629,665.3732	
Easting (SFT)	656,665.5502	
Elevation (SFT)*		

Convergence Angle	-1	12	14.8894725
Scale Factor	0.999958538		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>NEW BOSTON</td> </tr> <tr> <td>Ref Mon # 2</td> <td>De QUEEN CORS</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD HOPE, TEXARKANA</td> </tr> </table>	Ref Mon # 1	NEW BOSTON	Ref Mon # 2	De QUEEN CORS	Ref Mon # 3	AHTD HOPE, TEXARKANA	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	NEW BOSTON						
Ref Mon # 2	De QUEEN CORS						
Ref Mon # 3	AHTD HOPE, TEXARKANA						

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 559, SOUTHEAST OF BOWIE, GO NORTH 3.8 MILES ON HWY 559 TO THE JUNCTION OF COUNTY ROAD 1397 THEN NORTH 2.6 MILES TO THE STATION ON THE LEFT. 17 METERS SOUTH OF THE C/L OF HWY 559 AND 38 METERS WEST OF A 36" PECAN TREE AND 0.30 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460031A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460031-TX	Date Monumented 5/19/2003	Monumented By NTB	County TX / BOWIE	Route N/A	Job Number: 030295
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	497,186.9691	
Easting (M)	199,619.2370	
Elevation (M)*		
Northing (SFT)	1,631,187.5811	
Easting (SFT)	654,917.4467	
Elevation (SFT)*		

Convergence Angle	-1	12	26.6555350
Scale Factor	0.999957906		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 559, SOUTHEAST OF BOWIE, GO NORTH 3.8 MILES ON 559 TO THE JUNCTION OF HWY 559 AND COUNTY ROAD 1397 THEN NORTHWEST 2.6 MILES TO THE STATION ON THE LEFT. 17 METERS SOUTH OF THE C/L OF HWY 559, 12 METERS WEST OF THE C/L OF OAK RIDGE AND 0.5 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460031 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1					AZ Mark Station	460031A
MK # 2					Geodetic Azimuth	129 50 28
MK # 3					Grid Azimuth	131 02 55

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEW BOSTON Ref Mon # 2 De QUEEN CORS Ref Mon # 3 AHTD HOPE, TEXARKANA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460032	Date Monumented 7/28/2004	Monumented By AHTD	County MILLER	Route 196	Job Number: XA0302
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	482,047.0961	
Easting (M)	219,250.4490	
Elevation (M)*	111.757	
Northing (SFT)	1,581,516.1811	
Easting (SFT)	719,324.1814	
Elevation (SFT)*	366.655	

Convergence Angle	-1	5	14.6914430
Scale Factor	0.999981085		
Elevation Adjust. Factor	0.9999824620		
Combined Adjust. Factor	0.9999635474		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	271	13.00	42.7
MK # 2	COMBINATION POLE	257	16.50	54.1
MK # 3	FENCE CORNER	113	35.50	116.5

Area Reference Monuments (used for Processing) Ref Mon # 1 IULM, DQUA Ref Mon # 2 AHTD HOPE Ref Mon # 3 AHTD TEXARKANA	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.</td> </tr> </table>	Comments	3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.
Comments			
3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 AND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY 196 2.5 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 12.4 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460032 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.	

AZ Mark Station	460032A
Geodetic Azimuth	103 03 48
Grid Azimuth	104 09 03

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460032A	Date Monumented 7/28/2004	Monumented By AHTD	County MILLER	Route 196	Job Number: XA0302
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	481,934.4082	
Easting (M)	219,697.4030	
Elevation (M)*	101.655	
Northing (SFT)	1,581,146.4709	
Easting (SFT)	720,790.5630	
Elevation (SFT)*	333.514	

Convergence Angle	-1	5	4.9673873
Scale Factor	0.999981267		
Elevation Adjust. Factor	0.9999840472		
Combined Adjust. Factor	0.9999653145		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH TELEPHONE RIS	109	9.50	31.2
MK # 2	19 INCH RED OAK	258	28.20	92.5
MK # 3	12 INCH PINE	130	30.20	99.1

Area Reference Monuments (used for Processing) Ref Mon # 1 IULM, DQUA Ref Mon # 2 AHTD HOPE Ref Mon # 3 AHTD TEXARKANA	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.</td> </tr> </table>	Comments	3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.
Comments			
3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 AND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY 196 2.9 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 14.5 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460032A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	23	24.0040248
Longitude	93	56	17.0097648
Ellipsoid Height (M):	74.878		
Geoid Height (M):	-26.771		

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460032A-TX	Date Monumented 5/19/2003	Monumented By NTB	County TX / BOWIE	Route N/A	Job Number: 030295
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	493,528.2421
Easting (M)	196,053.4130
Elevation (M)*	
Northing (SFT)	1,619,183.9076
Easting (SFT)	643,218.5725
Elevation (SFT)*	

Convergence Angle	-1	13	42.2805048
Scale Factor	0.999963272		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF FM 2253 AND FM 2148, NORTH OF LEARY, TX GO NORTH ON FM 2148 0.4 MILES TO THE STATION ON THE RIGHT. 14.8 METERS EAST OF THE CENTERLINE OF FM 2253 AND 28.0 METERS SOUTH OF A 32" PINE AND 0.9 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460032A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 NEW BOSTON Ref Mon # 2 De QUEEN CORS Ref Mon # 3 AHTD HOPE, TEXARKANA	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460032-TX	Date Monumented 5/19/2003	Monumented By NTB	County TX / BOWIE	Route N/A	Job Number: 030295
-----------------------------	-------------------------------------	-----------------------------	-----------------------------	---------------------	------------------------------

Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	494,555.7302	
Easting (M)	196,274.7400	
Elevation (M)*		
Northing (SFT)	1,622,554.9248	
Easting (SFT)	643,944.7095	
Elevation (SFT)*		

Convergence Angle	-1	13	37.9599535
Scale Factor	0.999961755		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF FM 2253 AND FM 2148, NORTH OF LEARY, TX, GO NORTH ON FM 2253 1.0 MILE TO THE STATION ON THE RIGHT. 6.5 METERS EAST OF C/L OF FM 2253 AND 8.4 METERS NORTHEAST CORNER OF BRIDGE AT BARKMAN CREEK AND 0.4 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460032 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	NEW BOSTON	
Ref Mon # 2	De QUEEN CORS	
Ref Mon # 3	AHTD HOPE, TEXARKANA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460033	Date Monumented 7/28/2004	Monumented By AHTD	County MILLER	Route 196	Job Number: XA0302
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	481,184.7211	
Easting (M)	222,161.9870	
Elevation (M)*	111.685	
Northing (SFT)	1,578,686.8725	
Easting (SFT)	728,876.4523	
Elevation (SFT)*	366.421	

Convergence Angle	-1	4	11.2991493
Scale Factor	0.999982508		
Elevation Adjust. Factor	0.9999824733		
Combined Adjust. Factor	0.9999649816		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	RAIL ROAD MILE MARKER 410	206	7.00	23.0		Y 22
MK # 2						264 27 57
MK # 3						265 32 09

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 IULM, DQUA	3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.
Ref Mon # 2 AHTD HOPE	
Ref Mon # 3 AHTD TEXARKANA	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460033A-TX	Date Monumented 5/19/2003	Monumented By NTB	County TX / BOWIE	Route N/A	Job Number: 030295
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	490,702.2012	
Easting (M)	196,590.3310	
Elevation (M)*		
Northing (SFT)	1,609,912.1384	
Easting (SFT)	644,980.1110	
Elevation (SFT)*		

Convergence Angle	-1	13	29.3320283
Scale Factor	0.999967542		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION FROM I-30 AND F.M. 2253 IN LEARY, TX GO EAST ALONG I-30 1609 METERS TO THE STATION ON THE LEFT, 8.8 METERS NORTH OF THE C/L OF THE EAST BOUND LANE OF I-30. THE STATION IS 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460033A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>NEW BOSTON</td> </tr> <tr> <td>Ref Mon # 2</td> <td>De QUEEN CORS</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD HOPE, TEXARKANA</td> </tr> </table>	Ref Mon # 1	NEW BOSTON	Ref Mon # 2	De QUEEN CORS	Ref Mon # 3	AHTD HOPE, TEXARKANA	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	NEW BOSTON							
Ref Mon # 2	De QUEEN CORS							
Ref Mon # 3	AHTD HOPE, TEXARKANA							
Comments								

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460033-TX	Date Monumented 5/19/2003	Monumented By NTB	County TX / BOWIE	Route I-30	Job Number: 030295
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	490,760.3562				
Easting (M)	195,739.4240				
Elevation (M)*					
Northing (SFT)	1,610,102.9353				
Easting (SFT)	642,188.4269				
Elevation (SFT)*					

Convergence Angle	-1	13	47.7986280
Scale Factor	0.999967481		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND F.M. 2253 GO EAST ON I-30 850 METERS TO THE STATION ON THE LEFT 8.8 METERS NORTH OF THE CENTERLINE OF THE EAST BOUND LANE OF I-30. 0.50 METERS SOUTH OF A WITNESS POST 64.9 METERS EAST OF C/L I-30 LIGHT POLE#B-1. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460033 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					460033A	
MK # 2					92 40 48	
MK # 3					93 5 35	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEW BOSTON	
Ref Mon # 2 De QUEEN CORS	
Ref Mon # 3 AHTD HOPE, TEXARKANA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460034	Date Monumented 7/28/2004	Monumented By AHTD	County MILLER	Route 196	Job Number: XA0302
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	479,793.5381	
Easting (M)	226,071.2450	
Elevation (M)*	108.662	
Northing (SFT)	1,574,122.6329	
Easting (SFT)	741,702.0763	
Elevation (SFT)*	356.500	

Convergence Angle	-1	2	46.1083952
Scale Factor	0.999984866		
Elevation Adjust. Factor	0.9999829478		
Combined Adjust. Factor	0.9999678140		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SERVICE POLE WITH GUY	278	25.60	84.0
MK # 2	TELEPHONE RISER	282	25.30	83.0
MK # 3	COMBINATION POLE	293	26.90	88.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 IULM, DQUA	3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.
Ref Mon # 2 AHTD HOPE	
Ref Mon # 3 AHTD TEXARKANA	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 22 18.3725832
Longitude	93 52 8.9102424
Ellipsoid Height (M):	81.946
Geoid Height (M):	-26.747

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 AND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY 196 7.4 MILES TO THE STATION MARK ON THE RIGHT, EAST 15.30 METERS OF A DRIVE, SOUTH 10.50 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 1.0 METER OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460034 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460034A	Date Monumented 7/28/2004	Monumented By AHTD	County MILLER	Route 196	Job Number: XA0302
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	480,049.6351	
Easting (M)	225,616.5270	
Elevation (M)*	111.586	
Northing (SFT)	1,574,962.8445	
Easting (SFT)	740,210.2223	
Elevation (SFT)*	366.096	

Convergence Angle	-1	2	56.0537902
Scale Factor	0.999984420		
Elevation Adjust. Factor	0.9999824888		
Combined Adjust. Factor	0.9999669091		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 AND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY 196 7.1 MILES TO THE STATION MARK ON THE LEFT, NORTH ACROSS THE ROAD FROM GENOA CENTRAL HIGH SCHOOL AND EAST OF A GRAVEL DRIVE 34.10 METERS. NORTH 9.00 METERS OF THE THE CENTERLINE OF THE HIGHWAY AND EAST 41.2 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460034A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN 0.10 METERS BELOW GROUND LEVEL. NOTE: ***** STATION MARK IS 41.2 METERS EAST OF THE WITNESS POST*****</p> <p>SUBSURFACE 0.10 METERS</p>				

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	POWER POLE WITH GUY	294	41.20	135.2	
MK # 2	FLAG POLE	201	31.00	101.7	
MK # 3	LIGHT POLE WITH TELEPHONE RISER	234	43.80	143.7	

Area Reference Monuments (used for Processing)	Comments
<p>Ref Mon # 1 IULM, DQUA</p> <p>Ref Mon # 2 AHTD HOPE</p> <p>Ref Mon # 3 AHTD TEXARKANA</p>	<p>3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460035	Date Monumented 7/28/2004	Monumented By AHTD	County MILLER	Route 196	Job Number: XA0302
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	477,445.5511	
Easting (M)	229,953.2320	
Elevation (M)*	107.611	
Northing (SFT)	1,566,419.2789	
Easting (SFT)	754,438.2287	
Elevation (SFT)*	353.055	

Convergence Angle	-1	1	21.1618796
Scale Factor	0.999989040		
Elevation Adjust. Factor	0.9999831125		
Combined Adjust. Factor	0.9999721527		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE WITH GUY	265	19.20	63.0	
MK # 2	TELEPHONE RISER	325	28.20	92.5	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 IULM, DQUA Ref Mon # 2 AHTD HOPE Ref Mon # 3 AHTD TEXARKANA	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.</td> </tr> </table>	Comments	3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.
Comments			
3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.			

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 21 4.4465112
Longitude	93 49 37.1362044
Ellipsoid Height (M):	80.963
Geoid Height (M):	-26.720

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 AND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY 196 10.4 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 11.05 METERS OF THE CENTERLINE OF THE HIGHWAY, 7.0 METERS EAST OF A DRIVE WITH THE ADDRESS 15756 AND NORTH 1.5 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460035 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460035A	Date Monumented 7/28/2004	Monumented By AHTD	County MILLER	Route 196	Job Number: XA0302
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	477,382.9851	
Easting (M)	230,692.2990	
Elevation (M)*	109.985	
Northing (SFT)	1,566,214.0103	
Easting (SFT)	756,862.9843	
Elevation (SFT)*	360.841	

Convergence Angle	-1	1	5.1419142
Scale Factor	0.999989131		
Elevation Adjust. Factor	0.9999827401		
Combined Adjust. Factor	0.9999718713		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	230	2.85	9.4
MK # 2	TELEPHONE RISER	265	20.30	66.6
MK # 3	COMBINATION POLE WITH GUY	256	28.70	94.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 IULM, DQUA Ref Mon # 2 AHTD HOPE Ref Mon # 3 AHTD TEXARKANA	3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 AND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY 196 10.85 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 11.25 METERS OF THE CENTERLINE OF THE HIGHWAY AND 8.6 METERS OF A DRIVE WITH THE ADDRESS 16212. NORTH 1.55 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460035A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.	

AZ Mark Station	460035
Geodetic Azimuth	273 49 15
Grid Azimuth	274 50 20

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460036	Date Monumented 7/28/2004	Monumented By AHTD	County MILLER	Route 196	Job Number: XA0302
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	477,631.4591	
Easting (M)	234,529.1350	
Elevation (M)*	69.231	
Northing (SFT)	1,567,029.2121	
Easting (SFT)	769,451.0037	
Elevation (SFT)*	227.134	

Convergence Angle	0	59	42.1930941
Scale Factor	0.999988545		
Elevation Adjust. Factor	0.9999891356		
Combined Adjust. Factor	0.9999776807		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	145	6.20	20.3
MK # 2	WESTERN MOST GATE POST	211	9.85	32.3
MK # 3	NORTHERN MOST GUY	38	4.00	13.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 IULM, DQUA	3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.
Ref Mon # 2 AHTD HOPE	
Ref Mon # 3 AHTD TEXARKANA	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 21 13.0949352
Longitude	93 46 40.3085604
Ellipsoid Height (M):	42.617
Geoid Height (M):	-26.717

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 196, IN TEXARKANA, GO EAST ON HIGHWAY 237 16.51 MILES TO THE STATION MARK ON THE LEFT, NORTH 25.0 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 5.60 METERS OF A DRIVE AND NORTH 1.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460036 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460036A	Date Monumented 7/28/2004	Monumented By AHTD	County MILLER	Route 196	Job Number: XA0302
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	477,622.6451	
Easting (M)	235,085.1830	
Elevation (M)*	67.964	
Northing (SFT)	1,567,000.2948	
Easting (SFT)	771,275.3046	
Elevation (SFT)*	222.978	

Convergence Angle	0	59	30.1546048
Scale Factor	0.999988543		
Elevation Adjust. Factor	0.9999893344		
Combined Adjust. Factor	0.9999778775		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWESTERN END OF BRIDGE	145	21.30	69.9
MK # 2	POWER POLE WITH GUY	5	5.25	17.2
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 IULM, DQUA Ref Mon # 2 AHTD HOPE Ref Mon # 3 AHTD TEXARKANA	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.</td> </tr> </table>	Comments	3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.
Comments			
3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 196, IN TEXARKANA, GO EAST ON HIGHWAY 196 16.84 MILES TO THE STATION MARK ON THE LEFT, NORTH 22.4 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST 6.0 METERS OF A GRAVEL GATED ROAD, AND SOUTH 4.05 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460036A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	460036
Geodetic Azimuth	269 54 59
Grid Azimuth	270 54 29

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460037	Date Monumented 9/24/2007	Monumented By AHTD	County MILLER	Route NA	Job Number: R30079,030313
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	440,825.8429	
Easting (M)	220,096.4270	
Elevation (M)*		
Northing (SFT)	1,446,276.1196	
Easting (SFT)	722,099.6942	
Elevation (SFT)*		

Convergence Angle	-1	4	39.5835453
Scale Factor	1.000074019		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 71 AND THE ARKANSAS LOUISIANA STATE LINE, SOUTH OF DODDRIDGE, GO NORTH ON HIGHWAY 71 FOR 2.2 MILES TO COUNTY ROAD 2, TURN LEFT HERE AND GO 0.9 MILES TO A T INTERSECTION, CONTINUE STRAIGHT (WEST) ON COUNTY ROAD 79 FOR 0.7 MILES TO A T INTERSECTION, TURN LEFT HERE (SOUTH) ON COUNTY ROAD 183 AND GO 0.9 MILES TO A COUNTY ROAD NUMBER CHANGE FROM 183 TO 182 (NO TURN INVOLVED) AND CONTINUE ON 1.1 MILES FROM HERE TO A T INTERSECTION AND TURN LEFT HERE (EAST) ON IDA STATELINE ROAD AND GO 0.05 MILES TO THE STATION MARK ON THE LEFT, NORTH 24.0 FEET OF THE CENTERLINE AND SOUTH 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "460037 2007" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND LEVEL.</p>				

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	CABLE MARKER	158	13.93	45.7		460037A
MK # 2						89 47 48
MK # 3						90 52 27

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460037A	Date Monumented 9/24/2007	Monumented By AHTD	County MILLER	Route NA	Job Number: R30079,030313
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	440,819.3099	
Easting (M)	220,524.5790	
Elevation (M)*		
Northing (SFT)	1,446,254.6859	
Easting (SFT)	723,504.3896	
Elevation (SFT)*		

Convergence Angle	-1	4	30.3500621
Scale Factor	1.000074015		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	74	3.38	11.1
MK # 2	IRON GATE POST	172	31.03	101.8
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 460022, 460022A Ref Mon # 2 460029, 460029A Ref Mon # 3 LA GPS 8, LA GPS 9	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 71 AND THE ARKANSAS LOUISIANA STATE LINE, SOUTH OF DODDRIDGE, GO NORTH ON HIGHWAY 71 FOR 2.2 MILES TO COUNTY ROAD 2, TURN LEFT HERE AND GO 0.9 MILES TO A T INTERSECTION, CONTINUE STRAIGHT (WEST) ON COUNTY ROAD 79 FOR 0.7 MILES TO A T INTERSECTION, TURN LEFT HERE (SOUTH) ON COUNTY ROAD 183 AND GO 0.9 MILES TO A COUNTY ROAD NUMBER CHANGE FROM 183 TO 182 (NO TURN INVOLVED) AND CONTINUE ON 1.1 MILES FROM HERE TO A T INTERSECTION AND TURN LEFT HERE (EAST) ON IDA STATELINE ROAD AND GO 0.3 MILES TO THE STATION MARK ON THE LEFT, NORTH 15.0 FEET OF THE CENTERLINE AND SOUTH 10.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "460037A 2007" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND LEVEL.

AZ Mark Station	460037	
Geodetic Azimuth	269 47 57	
Grid Azimuth	270 52 27	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460038	Date Monumented 9/24/2007	Monumented By AHTD	County MILLER	Route 549	Job Number: R30079,030313
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	448,204.2939	
Easting (M)	223,057.0850	
Elevation (M)*		
Northing (SFT)	1,470,483.5876	
Easting (SFT)	731,813.1197	
Elevation (SFT)*		

Convergence Angle	-1	3	38.6977099
Scale Factor	1.000054191		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 549 (EXIT 16), WEST OF FOULKE, GO SOUTH ON 549 11.7 MILES TO THE STATION MARK IN THE MEDIAN, SOUTHEAST 17.5 FEET OF THE EDGE OF PAVEMENT OF THE SOUTH BOUND LANE, NORTHWEST 53.5 FEET OF THE EDGE OF PAVEMENT OF THE NORTH BOUND LANE AND SOUTHEAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "460038 2007" ON TOP OF A 4.0 REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 460022, 460022A</p> <p>Ref Mon # 2 460029, 460029A</p> <p>Ref Mon # 3 LA GPS 8, LA GPS 9</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460038A	Date Monumented 9/24/2007	Monumented By AHTD	County MILLER	Route 549	Job Number: R30079,030313
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	447,745.6499	
Easting (M)	222,780.8830	
Elevation (M)*		
Northing (SFT)	1,468,978.8530	
Easting (SFT)	730,906.9470	
Elevation (SFT)*		

Convergence Angle	-1	3	44.4736963
Scale Factor	1.000055388		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 549 (EXIT 16), WEST OF FOULKE, GO SOUTH ON 549 12.0 MILES TO THE STATION MARK IN THE MEDIAN, EAST 24.0 FEET OF THE EDGE OF PAVEMENT OF THE SOUTH BOUND LANE, WEST 47.0 FEET OF THE EDGE OF PAVEMENT OF THE NORTH BOUND LANE AND EAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "460038A 2007" ON TOP OF A 4.0 REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 460022, 460022A Ref Mon # 2 460029, 460029A Ref Mon # 3 LA GPS 8, LA GPS 9	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460040	Date Monumented 10/2/2007	Monumented By AHTD	County Miller	Route 82	Job Number: 030349,030646
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	486,352.4281	0.0010			
Easting (M)	217,531.1281	0.0010			
Elevation (M)*	107.416				

Northing (SFT)	1,595,641.2579				
Easting (SFT)	713,683.3761				
Elevation (SFT)*	352.415				

Convergence Angle	-1	5	53.7067093		
Scale Factor	0.999973821				
Elevation Adjust. Factor	0.9999831432				
Combined Adjust. Factor	0.9999569646				

SUPERCEDED CONTROL

Horizontal Datum					
Latitude	33	25	46.0426332		
Longitude	93	57	44.0928288		
Ellipsoid Height:					
Grid Northing (Meters)	486,352.4192				
Grid Easting (Meters)	217,531.1160				

Location Reference Marks

Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Gas meter	94	18.29	60.0	AZ Mark Station 460001
MK # 2	Pipe line mileage post #516	252	16.15	53.0	Geodetic Azimuth 274 36 44
MK # 3	Gas line vent pipe	269	9.75	32.0	Grid Azimuth 275 42 38

Area Reference Monuments (used for Processing) Ref Mon # 1 460026,460026A Ref Mon # 2 ARHP, B 307 Ref Mon # 3 TXMA, 460001	<div style="border: 1px solid black; padding: 5px;"> Comments 3-wire levels ran by crew S5102 in October 07 from 1st order NGS marks G307, B307, & C307. DIGITAL LEVELS WERE RAN FROM NGS BM K 307 BY CREW S5102 DURING JOB 030646 IN MARCH 2025. </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460041	Date Monumented 8/3/2010	Monumented By AHTD	County Miller	Route NA	Job Number: 030388,030463
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	486,065.6132	
Easting (M)	210,913.2280	
Elevation (M)*	92.031	
Northing (SFT)	1,594,700.2660	
Easting (SFT)	691,971.1489	
Elevation (SFT)*	301.938	

Convergence Angle	-1	8	16.9418474
Scale Factor	0.999974509		
Elevation Adjust. Factor	0.9999855576		
Combined Adjust. Factor	0.9999600669		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Guy pole	37	24.69	81.0	460041A
MK # 2	Sewer manhole	344	12.50	41.0	41 51 52
MK # 3					43 00 09

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP Ref Mon # 2 TXMA Ref Mon # 3 TXCR	Elevation run by crew S5102 in Aug. 2010 from NGS mark E 307 during job 030388. *****S5112 COULD NOT FIND MARK IN AUG. 2020 & REPORTED DESTROYED

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460041A	Date Monumented 8/3/2010	Monumented By AHTD	County Miller	Route NA	Job Number: 030388,030463,030477
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	486,492.3218 0.0030
Easting (M)	211,311.1858 0.0030
Elevation (M)*	89.450
Northing (SFT)	1,596,100.2258
Easting (SFT)	693,276.7821
Elevation (SFT)*	293.470

Convergence Angle	-1 8 8.5047944
Scale Factor	0.999973791
Elevation Adjust. Factor	0.9999859626
Combined Adjust. Factor	0.9999597540

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	33	25	46.6472856
Longitude	94	1	44.9366052
Ellipsoid Height:	62.626		
Grid Northing (Meters)	486,492.3232		
Grid Easting (Meters)	211,311.1770		

Location Description			
<p>To reach the station from the junction of highways 67, 82 and east Broad street in Texarkana go west on Broad street for 0.10 miles to the station on the right, 32.0 feet north of the center of Broad street, 16.2 feet east of the center of a sidewalk to a park, 13.5 feet west of the center of a sidewalk over Nix creek and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "460041A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	West end of a guardrail	60	4.97	16.3
MK # 2	Sewer manhole	312	10.15	33.3
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARHP (ARHP)
Ref Mon # 2	ARDQ (TXMA)
Ref Mon # 3	SHRV (TXCR)

Comments
<p>Elevation run by crew S5102 in Aug. 2010 from NGS mark E 307 during job 030388.</p> <p>*****RESTATI</p> <p>C BY S5112 FOR JOB #030477 IN AUG./SEPT. 2020, SS GEOID HT. WAS - 26.824m</p> <p>*****LEVELED</p> <p>ELEV. USED AS CONSTRAINT IN FINAL STATIC ADJ.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460042	Date Monumented 2/23/2012	Monumented By AHTD	County Miller	Route Hwy.67	Job Number: 030417
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Zone Arkansas South	Zone Code	Vertical Determined By:
Horizontal Datum		Elevation Datum:
Northing (M)	#Error	Geoid Datum:
Easting (M)	#Error	Latitude
Elevation (M)*		Longitude
Northing (SFT)	#Type!	Ellipsoid Height (M):
Easting (SFT)	#Type!	Geoid Height (M):
Elevation (SFT)*		

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			
Combined Adjust. Factor			#Type!

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	East of cl hwy.67	325	19.20	63.0
MK # 2	North of double box culvert	239	4.57	15.0
MK # 3	Nw of center of double box culvert	165	10.97	36.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460042A	Date Monumented 2/23/2012	Monumented By AHTD	County Miller	Route Hwy.67	Job Number: 030417
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Zone Arkansas South	Zone Code	Vertical Determined By:
Horizontal Datum		Elevation Datum:
Northing (M)	#Error	Geoid Datum:
Easting (M)	#Error	Latitude
Elevation (M)*		Longitude
Northing (SFT)	#Type!	Ellipsoid Height (M):
Easting (SFT)	#Type!	Geoid Height (M):
Elevation (SFT)*		

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			
Combined Adjust. Factor			#Type!

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	East of cl hwy.67	325	19.80	65.0
MK # 2	NE of 18" CCP	270	14.93	49.0
MK # 3	West of nearest rail	150	24.38	80.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460043	Date Monumented 2/23/2012	Monumented By AHTD	County Miller	Route Hwy.67	Job Number: 030417
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<table style="width: 100%;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas South</td> <td></td> </tr> <tr> <td colspan="2">Horizontal Datum</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td>Northing (M)</td> <td>#Error</td> </tr> <tr> <td>Easting (M)</td> <td>#Error</td> </tr> <tr> <td>Elevation (M)*</td> <td></td> </tr> <tr> <td>Northing (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Easting (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Elevation (SFT)*</td> <td></td> </tr> </table> <table style="width: 100%;"> <tr> <td style="width: 50%;">Convergence Angle</td> <td>###/###</td> <td>#Error</td> </tr> <tr> <td>Scale Factor</td> <td></td> <td>#Error</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td></td> <td></td> </tr> <tr> <td>Combined Adjust. Factor</td> <td></td> <td>#Type!</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;">SUPERCEDED CONTROL</div> <table style="width: 100%;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas South		Horizontal Datum				Northing (M)	#Error	Easting (M)	#Error	Elevation (M)*		Northing (SFT)	#Type!	Easting (SFT)	#Type!	Elevation (SFT)*		Convergence Angle	###/###	#Error	Scale Factor		#Error	Elevation Adjust. Factor			Combined Adjust. Factor		#Type!	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table style="width: 100%;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td style="width: 40%;"></td> </tr> <tr> <td>Elevation Datum:</td> <td></td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center;">Location Description</p> <p>To reach the station from the Miller and Hempstead county line at Fulton go south on Hwy-67 for 4.52 miles to the station on the left, 64 feet east of the center of Hwy-67 and 2 feet W of a witness post. The station mark is a 2 1/2in cap stamped "460043 2012" set on top of a 5/8 inch by 4 foot long rebar and is 0.10ft below the surface.</p> </div>	Vertical Determined By:		Elevation Datum:		Geoid Datum:		Latitude		Longitude		Ellipsoid Height (M):		Geoid Height (M):	
Zone	Zone Code																																																										
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Ellipsoid Height (M):																																																											
Geoid Height (M):																																																											

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	East of cl hwy.67		295	19.50	64.0
MK # 2	SE from center of conc.HW		346	16.46	54.0
MK # 3	West of nearest rail		105	25.60	84.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> <p style="text-align: center; margin-top: 0;">Comments</p> </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460043A	Date Monumented 2/23/2012	Monumented By AHTD	County Miller	Route Hwy.67	Job Number: 030417
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas South</td> <td></td> </tr> <tr> <td>Horizontal Datum</td> <td></td> </tr> <tr> <td>Northing (M)</td> <td>#Error</td> </tr> <tr> <td>Easting (M)</td> <td>#Error</td> </tr> <tr> <td>Elevation (M)*</td> <td></td> </tr> <tr> <td>Northing (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Easting (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Elevation (SFT)*</td> <td></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Convergence Angle</td> <td style="width: 50%;">###/### #Error</td> </tr> <tr> <td>Scale Factor</td> <td>#Error</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td></td> </tr> <tr> <td>Combined Adjust. Factor</td> <td>#Type!</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;"> SUPERCEDED CONTROL </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas South		Horizontal Datum		Northing (M)	#Error	Easting (M)	#Error	Elevation (M)*		Northing (SFT)	#Type!	Easting (SFT)	#Type!	Elevation (SFT)*		Convergence Angle	###/### #Error	Scale Factor	#Error	Elevation Adjust. Factor		Combined Adjust. Factor	#Type!	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Vertical Determined By:</td> <td style="width: 20%;"></td> </tr> <tr> <td>Elevation Datum:</td> <td></td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center;">Location Description</p> <p>To reach the station from the Miller and Hempstead county line at Fulton go south on Hwy-67 for 4.0 miles to the station on the left, 43 feet east of the center of Hwy-67 and 2 feet W of a witness post. The station mark is a 2 1/2in cap stamped "460043A 2012" set on top of a 5/8 inch by 4 foot long rebar and is 0.10ft below the surface.</p> </div>	Vertical Determined By:		Elevation Datum:		Geoid Datum:		Latitude		Longitude		Ellipsoid Height (M):		Geoid Height (M):	
Zone	Zone Code																																																				
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Ellipsoid Height (M):																																																					
Geoid Height (M):																																																					

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SE of hwy.67	300	13.10	43.0
MK # 2	SW of entrance of RR crossing	30	12.50	41.0
MK # 3	NW of cl of old hwy.67	120	11.28	37.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> <p style="text-align: center; margin-top: 0;">Comments</p> </div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460044	Date Monumented 2/11/2015	Monumented By AHTD	County MILLER	Route 71/59	Job Number: 030449
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	499,896.3886 0.0060
Easting (M)	210,429.8925 0.0050
Elevation (M)*	87.301
Northing (SFT)	1,640,076.7349
Easting (SFT)	690,385.4056
Elevation (SFT)*	286.419

Convergence Angle	-1 8 33.3868390
Scale Factor	0.999953933
Elevation Adjust. Factor	0.9999862999
Combined Adjust. Factor	0.9999402335

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By: 3rd Order - Digital Levels
Elevation Datum: NAVD 88
Geoid Datum: GEOID12A
Latitude 33 33 1.0751112
Longitude 94 2 29.3930412
Ellipsoid Height (M): 60.280 0.0070
Geoid Height (M): -27.012 0.0070

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71/59 AND I 30, NORTH OF TEXARKANA, GO NORTH ON HIGHWAY 71/59 FROM THE INTERSECTION OF HIGHWAY 71/59 AND INTERSTATE 30 FOR 6.6 MILES TO THE STATION ON THE LEFT. THE POINT IS A 2 1/2 INCH ALUMINUM CAP STAMPED "2015 460044" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND, 11.8 FOOT SOUTH OF A WITNESS POST, 27 FOOT WEST OF THE CENTERLINE OF HIGHWAY 71/59, 13.7 FOOT SOUTH OF THE SOUTHWEST BRIDGE CORNER.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST BRIDGE CORNER		13.70	44.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SHR V Ref Mon # 2 ARHP Ref Mon # 3 ARCM	ELEV. BASED ON 3RD ORDER DIGITAL LEVELS FROM A SINGLE NGS 1ST ORDER BM P 261 BY S5112 FOR JOB #030449 IN FEBRUARY 2015. PERFORMED STATIC OBSERVATION ON NGS 1ST BM M 261 AS A CHECK AND USED IT AS A VERTICAL CONSTRAINT ALONG WITH ARHP & ARCM CORS SITES IN FINAL STATIC ADJUSTMENT.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460044A	Date Monumented 2/11/2015	Monumented By AHTD	County MILLER	Route 71/59	Job Number: 030449
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	499,275.7159 0.0060
Easting (M)	210,290.5896 0.0050
Elevation (M)*	83.988

Northing (SFT)	1,638,040.4112	
Easting (SFT)	689,928.3760	
Elevation (SFT)*	275.550	

Convergence Angle	-1	8	36.1399799
Scale Factor	0.999954761		
Elevation Adjust. Factor	0.9999868198		
Combined Adjust. Factor	0.9999415814		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71/59 AND I 30, NORTH OF TEXARKANA, GO NORTH ON HIGHWAY 71/59 FROM THE INTERSECTION OF HIGHWAY 71/59 AND INTERSTATE 30 FOR 6.5 MILES THEN TURN LEFT WEST ONTO THE CROSSROAD LINKING THE SOUTH BOUND SIDE AND THE NORTH BOUND SIDE, TURN LEFT SOUTH ON THE ACCESS ROAD TO THE REST AREA .1 OF A MILE TO THE STATION ON THE LEFT. THE POINT IS A 2 1/2 INCH ALUMINUM CAP STAMPED :2015 460044A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND, 51.8 FOOT NORTHWEST OF THE SOUTH END OF A CULVERT, 96.1 FOOT SOUTHEAST OF A LIGHT POLE, 23.2 FOOT NORTH OF THE EDGE OF THE PAVEMENT.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF CULVERT		51.80	169.9
MK # 2	LIGHT POLE		96.10	315.3
MK # 3	EDGE OF PAVEMENT		23.20	76.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SHRV Ref Mon # 2 ARHP Ref Mon # 3 ARCM	ELEV. BASED ON 3RD ORDER DIGITAL LEVELS FROM A SINGLE NGS 1ST ORDER BM P 261 BY S5112 FOR JOB #030449 IN FEBRUARY 2015. PERFORMED STATIC OBSERVATION ON NGS 1ST BM M 261 AS A CHECK AND USED IT AS A VERTICAL CONSTRAINT ALONG WITH ARHP & ARCM CORS SITES IN FINAL STATIC ADJUSTMENT.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460045	Date Monumented 8/25/2020	Monumented By ARDOT	County MILLER	Route BROAD ST	Job Number: 030477
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	486,058.5763	0.0030	
Easting (M)	210,909.4468	0.0030	
Elevation (M)*	92.102		
Northing (SFT)	1,594,677.1791		
Easting (SFT)	691,958.7434		
Elevation (SFT)*	302.171		

Convergence Angle	-1	8	17.0207242
Scale Factor	0.999974521		
Elevation Adjust. Factor	0.9999855464		
Combined Adjust. Factor	0.9999600678		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	17	16.40	53.8
MK # 2	LIGHT POLE	270	28.16	92.4
MK # 3	SW CORNER BRIDGE PIER	45	23.99	78.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2020 FOR JOB #030477 FROM 1ST ORDER NGS BM's H 307, A 1497 & B 1497 *****LEVELED ELEV. USED AS CONSTRAINT IN FINAL STATIC ADJ.
Ref Mon # 2 ARDQ	
Ref Mon # 3 SHRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460046	Date Monumented 8/25/2020	Monumented By ARDOT	County MILLER	Route 71	Job Number: 030477, 030575
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	490,975.3858 0.0010
Easting (M)	210,128.4831 0.0010
Elevation (M)*	120.207

Northing (SFT)	1,610,808.4116
Easting (SFT)	689,396.5316
Elevation (SFT)*	394.379

Convergence Angle	-1 8 36.0629649
Scale Factor	0.999966688
Elevation Adjust. Factor	0.9999811360
Combined Adjust. Factor	0.9999478246

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (2011)
Latitude	33 28 11.3710944
Longitude	94 2 34.1749680
Ellipsoid Height:	93.261
Grid Northing (Meters)	490,975.3968
Grid Easting (Meters)	210,128.4706

Location Description

 TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND I 30, NORTH OF TEXARKANA, THE MARK IS LOCATED AT THE SOUTHEAST CORNER OF THE HIGHWAY 71 OVERPASS OVER I 30. MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 460046" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER BRIDGE	0	7.44	24.4
MK # 2	LIGHT POLE	160	9.20	30.2
MK # 3	SIGNAL POLE	202	24.14	79.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2020 FOR JOB #030477 FROM 1ST ORDER NGS BM's H 307, A 1497 & B 1497 *****LEVELED ELEV. USED AS CONSTRAINT IN FINAL STATIC ADJ. *****UPDATE D STATIC POSITION IN DEC. 2022 FOR JOB #030575, SUPERCEDED NAD 83 (2011) POSITION WAS BASED ON CORS SITES ARHP, ARDQ & SHRV &
Ref Mon # 2 ARDQ	
Ref Mon # 3 SHRV	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460046A	Date Monumented 8/25/2020	Monumented By ARDOT	County MILLER	Route 71	Job Number: 030477, 030575
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	490,981.8190	0.0010			
Easting (M)	210,617.8777	0.0010			
Elevation (M)*	107.834				

Northing (SFT)	1,610,829.5178				
Easting (SFT)	691,002.1538				
Elevation (SFT)*	353.787				

Convergence Angle	-1	8	25.4593750		
Scale Factor	0.999966663				
Elevation Adjust. Factor	0.9999830775				
Combined Adjust. Factor	0.9999497411				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (2011)				
Latitude	33	28	11.8964604		
Longitude	94	2	15.2291976		
Ellipsoid Height:	80.888				
Grid Northing (Meters)	490,981.8307				
Grid Easting (Meters)	210,617.8737				

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND REALTOR AVE, NORTH OF TEXARKANA, GO EAST ON REALTOR AVE 0.30 MILES TO THE MARK ON THE LEFT, SOUTH 34.6' OF THE EDGE OF THE PAVEMENT OF THE EAST BOUND LANE OF I 30 AND NORTH OF THE EDGE OF PAVEMENT OF REALTOR AVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 460046A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	ELECTRIC BOX	78	14.60	47.9	
MK # 2					
MK # 3					
AZ Mark Station	460046				
Geodetic Azimuth					
Grid Azimuth					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP Ref Mon # 2 ARDQ Ref Mon # 3 SHRV	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2020 FOR JOB #030477 FROM 1ST ORDER NGS BM's H 307, A 1497 & B 1497 *****LEVELED ELEV. USED AS CONSTRAINT IN FINAL STATIC ADJ. *****UPDATE D STATIC POSITION IN DEC. 2022 FOR JOB #030575, SUPERCEDED NAD 83 (2011) POSITION WAS BASED ON CORS SITES ARHP, ARDQ & SHRV.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470001-96	Date Monumented 11/3/1997	Monumented By AHTD	County MISSISSIPPI	Route 18	Job Number: 100302
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	173,427.1009
Easting (M)	580,782.2030
Elevation (M)*	73.199
Northing (SFT)	568,985.4135
Easting (SFT)	1,905,449.6110
Elevation (SFT)*	240.154

Convergence Angle	1	9	54.3975602
Scale Factor	0.999949215		
Elevation Adjust. Factor	0.9999885128		
Combined Adjust. Factor	0.9999377284		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	324	1.41	4.6
MK # 2	USC&GS BM=L 185 1956	178	28.45	93.3
MK # 3	TELEPHONE JUNCTION BOX	94	74.97	246.0

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>KENNPOR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MANIPOR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>VILLPOR</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	KENNPOR	Ref Mon # 2	MANIPOR	Ref Mon # 3	VILLPOR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES. ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK NUMBER, "L 185" ELEVATION = 73.780 METERS NAVD88 DATUM.</td> </tr> </table>	Comments	THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES. ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK NUMBER, "L 185" ELEVATION = 73.780 METERS NAVD88 DATUM.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	KENNPOR										
Ref Mon # 2	MANIPOR										
Ref Mon # 3	VILLPOR										
Comments											
THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES. ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK NUMBER, "L 185" ELEVATION = 73.780 METERS NAVD88 DATUM.											

Vertical Determined By:	None
Elevation Datum:	
Geoid Datum:	
Latitude	35 52 47.9254044
Longitude	89 59 51.8820324
Ellipsoid Height (M):	44.572
Geoid Height (M):	-28.627

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 312, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTHWEST OF BLYTHEVILLE, GO NORTHEAST ON STATE HIGHWAY 18 FOR 0.29 KM (0.18 MI) TO THE STATION ON THE LEFT. THE STATION IS SET 30.692 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 18 AND 1.16 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "470001 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470001A-96	Date Monumented 11/3/1997	Monumented By AHTD	County MISSISSIPPI	Route 18	Job Number: 100302
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	173,785.8939	
Easting (M)	581,256.1460	
Elevation (M)*	73.271	
Northing (SFT)	570,162.5536	
Easting (SFT)	1,907,004.5390	
Elevation (SFT)*	240.390	

Convergence Angle	1	10	5.5603571
Scale Factor	0.999949500		
Elevation Adjust. Factor	0.9999885015		
Combined Adjust. Factor	0.9999380021		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	322	1.49	4.9
MK # 2	TELEPHONE JUNCTION BOX	118	53.62	175.9
MK # 3	WOODEN CORNER FENCE POST	162	51.35	168.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 KENNPOR Ref Mon # 2 MANIPOR Ref Mon # 3 VILLPOR	THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES. ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK NUMBER, "M 185" ELEVATION = 73.901 METERS NAVD88 DATUM.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470002-96	Date Monumented 11/3/1997	Monumented By AHTD	County MISSISSIPPI	Route 18	Job Number: 100302
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	176,209.7069	
Easting (M)	584,135.8040	
Elevation (M)*	75.172	
Northing (SFT)	578,114.6801	
Easting (SFT)	1,916,452.2170	
Elevation (SFT)*	246.627	

Convergence Angle	1	11	13.5211049
Scale Factor	0.999951504		
Elevation Adjust. Factor	0.9999882032		
Combined Adjust. Factor	0.9999397078		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	214	33.21	108.9
MK # 2	REINFORCED CONCRETE PIPE 0.70 METER	222	36.73	120.5
MK # 3	COMBINATION POLE	42	56.53	185.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 KENNPOR Ref Mon # 2 MANIPOR Ref Mon # 3 VILLPOR	THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES. ELEVATION BY 3-WIRE LEVELING STARTING ON NGS BM Q 185 (ELEV=75.525m NAVD88 DATUM), AND ENDING ON NGS BM R 185 (ELEV=76.229m NAVD88 DATUM) WITH AN ERROR OF 0.006mm.

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 312, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTHWEST OF BLYTHEVILLE, GO NORTHEAST ON STATE HIGHWAY 18 FOR 4.67 KM (2.90 MI) TO THE STATION ON THE RIGHT. THE STATION IS SET 41.027 METERS NORTHEAST OF A GRAVEL DRIVE, 12.507 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 18 AND 1.00 METER NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "470002 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470002A-96	Date Monumented 11/3/1997	Monumented By AHTD	County MISSISSIPPI	Route 18	Job Number: 100302
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	176,573.7219	
Easting (M)	584,410.9010	
Elevation (M)*	75.603	
Northing (SFT)	579,308.9526	
Easting (SFT)	1,917,354.7644	
Elevation (SFT)*	248.041	

Convergence Angle	1	11	20.0791488
Scale Factor	0.999951820		
Elevation Adjust. Factor	0.9999881356		
Combined Adjust. Factor	0.9999399561		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	42	47.15	154.7
MK # 2	COMBINATION POLE	206	42.41	139.1
MK # 3	SOUTHWEST CORNER OF A BRICK FENCE	64	85.02	278.9

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>KENNPOR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MANIPOR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>VILLPOR</td> </tr> </table>	Ref Mon # 1	KENNPOR	Ref Mon # 2	MANIPOR	Ref Mon # 3	VILLPOR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES. ELEVATION BY 3-WIRE LEVELING STARTING ON NGS BM Q 185 (ELEV=75.525m NAVD88 DATUM), AND ENDING ON NGS BM R 185 (ELEV=76.229m NAVD88 DATUM) WITH AN ERROR OF 0.006mm. </td> </tr> </table>	Comments	THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES. ELEVATION BY 3-WIRE LEVELING STARTING ON NGS BM Q 185 (ELEV=75.525m NAVD88 DATUM), AND ENDING ON NGS BM R 185 (ELEV=76.229m NAVD88 DATUM) WITH AN ERROR OF 0.006mm.
Ref Mon # 1	KENNPOR								
Ref Mon # 2	MANIPOR								
Ref Mon # 3	VILLPOR								
Comments									
THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES. ELEVATION BY 3-WIRE LEVELING STARTING ON NGS BM Q 185 (ELEV=75.525m NAVD88 DATUM), AND ENDING ON NGS BM R 185 (ELEV=76.229m NAVD88 DATUM) WITH AN ERROR OF 0.006mm.									

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 54 27.5825052
Longitude	89 57 24.6372876
Ellipsoid Height (M):	46.941
Geoid Height (M):	-28.662

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 312, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTHWEST OF BLYTHEVILLE, GO NORTHEAST ON STATE HIGHWAY 18 FOR 5.15 KM (3.2 MI) TO THE STATION ON THE RIGHT. THE STATION IS SET 118.255 METERS SOUTHWEST OF A PAVED DRIVEWAY, 11.767 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 18 AND 1.00 METER NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "470002A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	470002
Geodetic Azimuth	218 16 06.02707
Grid Azimuth	217 04 45.92218

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470003	Date Monumented 11/3/1997	Monumented By AHTD	County MISSISSIPPI	Route 18	Job Number: 100302,100663
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	178,364.1849	
Easting (M)	586,147.3310	
Elevation (M)*	76.190	
Northing (SFT)	585,183.1633	
Easting (SFT)	1,923,051.7018	
Elevation (SFT)*	249.968	

Convergence Angle	1	12	1.2394964
Scale Factor	0.999953412		
Elevation Adjust. Factor	0.9999880434		
Combined Adjust. Factor	0.9999414560		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	REINFORCED CONCRETE PIPE 0.50 METERS	357	5.18	17.0
MK # 2	CONCRETE R/W MARKER	132	0.55	1.8
MK # 3	NE CORNER OF ALLEN AC/SHEET METAL B	194	19.77	64.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: KENNPOR	THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES. 3-Wire Levels ran to mark from 1st Order NGS marks B189 & E189 by crew S5102 & S5110.
Ref Mon # 2: MANIPOR	
Ref Mon # 3: VILLPOR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470003A	Date Monumented 11/3/1997	Monumented By AHTD	County MISSISSIPPI	Route 18	Job Number: 100302
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	178,771.9479	
Easting (M)	586,641.4060	
Elevation (M)*	75.973	
Northing (SFT)	586,520.9657	
Easting (SFT)	1,924,672.6795	
Elevation (SFT)*	249.255	

Convergence Angle	1	12	12.9044404
Scale Factor	0.999953783		
Elevation Adjust. Factor	0.9999880775		
Combined Adjust. Factor	0.9999418611		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TELEPHONE JUNCTION BOX	240	32.05	105.1	470003
MK # 2	TELEPHONE JUNCTION BOX	182	41.67	136.7	231 40 13.99463
MK # 3	SOUTHWEST END OF LINE BRACE WOODE X POST	137	32.56	106.8	230 28 01.04169

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 KENNPORT	THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES.
Ref Mon # 2 MANIPORT	
Ref Mon # 3 VILLPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470004	Date Monumented 10/18/2000	Monumented By AHTD	County MISSISSIPPI	Route 18	Job Number: 100491,100663
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	178,309.2245	
Easting (M)	596,069.5888	
Elevation (M)*	78.135	
Northing (SFT)	585,002.8474	
Easting (SFT)	1,955,604.9759	
Elevation (SFT)*	256.348	

Convergence Angle	1	15	51.4745876
Scale Factor	0.999953163		
Elevation Adjust. Factor	0.9999877382		
Combined Adjust. Factor	0.9999409018		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	80	14.95	49.0
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MANIPORT	Elevation based on 3-wire from NGS point V 185
Ref Mon # 2 KENNPORT	
Ref Mon # 3 COTTON 2 RM5	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 55 15.7826939
Longitude	89 49 38.2412651
Ellipsoid Height (M):	50.079
Geoid Height (M):	-27.989

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 312, LOCATED ABOUT 1.61 KM (1.00 MI) WEST OF ARMOREL, GO WEST ON STATE HIGHWAY 18 FOR 1.44KM (0.90 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.25 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 18, 5.55 METERS NORTH OF THE NORTH RAIL AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "470004 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 517.224 METERS.</p>

AZ Mark Station	470004A
Geodetic Azimuth	87 51 43.149665
Grid Azimuth	86 35 51.724263

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470004A	Date Monumented 10/18/2000	Monumented By AHTD	County MISSISSIPPI	Route 18	Job Number: 100491
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 178,339.9178		Latitude 35 55 16.4082396
Easting (M) 596,585.8682		Longitude 89 49 17.6250756
Elevation (M)* 77.007		Ellipsoid Height (M): 48.977
Northing (SFT) 585,103.5470		Geoid Height (M): -27.988
Easting (SFT) 1,957,298.8026		
Elevation (SFT)* 252.647		

Convergence Angle	1	16	3.4711303
Scale Factor	0.999953181		
Elevation Adjust. Factor	0.9999879152		
Combined Adjust. Factor	0.9999410968		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WEST END OF CMP	98	9.22	30.2	AZ Mark Station 470004
MK # 2	NONE				Geodetic Azimuth 267 51 55.24459
MK # 3	NONE				Grid Azimuth 266 35 51.72426

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MANIPORT	Elevation based on 3-wire from NGS point V 185
Ref Mon # 2 KENNPORT	
Ref Mon # 3 COTTON 2 RM5	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470005	Date Monumented 8/2/2001	Monumented By AHTD	County MISSISSIPPI	Route 137	Job Number: 100538
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	180,938.9759	
Easting (M)	599,694.9820	
Elevation (M)*		
Northing (SFT)	593,630.6234	
Easting (SFT)	1,967,499.2868	
Elevation (SFT)*		

Convergence Angle	1	17	16.9769342
Scale Factor	0.999955595		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 137 AND STATE HIGHWAY 137 SPUR, LOCATED ABOUT 2 MILES NORTH OF ARMOREL, GO WEST ON STATE HIGHWAY 137 FOR 0.129 KM (0.08 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.00 METERS WEST OF MISSISSIPPI COUNTY ROAD N917, 11.50 METERS NORTH OF THE CENTER OF STATE HIGHWAY 137, AND 0.46 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "470005 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 721.372 METERS.</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				AZ Mark Station	470005A
MK # 2	NONE				Geodetic Azimuth	269 34 48
MK # 3	NONE				Grid Azimuth	268 17 31

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 COTTON 2 RM 5	
Ref Mon # 2 MANIPORT	
Ref Mon # 3 KENNPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470005A	Date Monumented 8/2/2001	Monumented By AHTD	County MISSISSIPPI	Route 137	Job Number: 100538
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	180,917.4749	
Easting (M)	598,973.9680	
Elevation (M)*		
Northing (SFT)	593,560.0822	
Easting (SFT)	1,965,133.7600	
Elevation (SFT)*		

Convergence Angle	1	17	0.2292016
Scale Factor	0.999955589		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>COTTON 2 RM 5</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MANIPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>KENNPOR</td> </tr> </table>	Ref Mon # 1	COTTON 2 RM 5	Ref Mon # 2	MANIPORT	Ref Mon # 3	KENNPOR	<table style="width: 100%;"> <tr> <td style="width: 30%;">AZ Mark Station</td> <td>470005</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>89 34 31</td> </tr> <tr> <td>Grid Azimuth</td> <td>88 17 31</td> </tr> </table>	AZ Mark Station	470005	Geodetic Azimuth	89 34 31	Grid Azimuth	88 17 31
Ref Mon # 1	COTTON 2 RM 5												
Ref Mon # 2	MANIPORT												
Ref Mon # 3	KENNPOR												
AZ Mark Station	470005												
Geodetic Azimuth	89 34 31												
Grid Azimuth	88 17 31												

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470006	Date Monumented 8/2/2001	Monumented By AHTD	County MISSISSIPPI	Route N/A	Job Number: 100538
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	181,069.8549	
Easting (M)	604,610.1560	
Elevation (M)*		
Northing (SFT)	594,060.0156	
Easting (SFT)	1,983,625.1535	
Elevation (SFT)*		

Convergence Angle	1	19	11.1388459
Scale Factor	0.999955613		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 137 AND STATE HIGHWAY 137 SPUR, LOCATED ABOUT 2 MILES NORTH OF ARMOREL, GO EAST ON STATE HIGHWAY 137 FOR 4.828KM (3.00 MI) TO THE VILLAGE OF HICKMAN AND THE JUNCTION WITH MISSISSIPPI COUNTY ROAD E 142, CONTINUE EAST ON MISSISSIPPI COUNTY ROAD E 142 FOR 0.724 KM (0.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.30 METERS NORTH OF THE CENTER OF MISSISSIPPI COUNTY ROAD E 142 AND 0.46 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "470006 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 635.554 METERS.</p>			

Location Reference Marks							
Description			Azimuth	Distance			
				Meters	Feet		
MK # 1	NONE					AZ Mark Station	470006A
MK # 2	NONE					Geodetic Azimuth	88 51 25
MK # 3	NONE					Grid Azimuth	87 32 13

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 COTTON 2 RM 5	
Ref Mon # 2 MANIPORT	
Ref Mon # 3 KENNPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470006A	Date Monumented 8/2/2001	Monumented By AHTD	County MISSISSIPPI	Route N/A	Job Number: 100538
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	181,097.1649	
Easting (M)	605,245.0880	
Elevation (M)*		
Northing (SFT)	594,149.6152	
Easting (SFT)	1,985,708.2595	
Elevation (SFT)*		

Convergence Angle	1	19	25.8916612
Scale Factor	0.999955626		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 137 AND STATE HIGHWAY 137 SPUR, LOCATED ABOUT 2 MILES NORTH OF ARMOREL, GO EAST ON STATE HIGHWAY 137 FOR 4.828 KM (3.00 MI) TO THE VILLAGE OF HICKMAN AND THE JUNCTION WITH MISSISSIPPI COUNTY ROAD E 142, CONTINUE EAST ON MISSISSIPPI COUNTY ROAD E 142 FOR 0.724 KM (0.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 40 METERS WEST OF THE CENTER OF A GRAVEL DRIVE, 7.80 METERS NORTH OF THE CENTER OF MISSISSIPPI COUNTY ROAD E 142, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "470006A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 635.554 METERS.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					470006
MK # 2	NONE					268 51 39
MK # 3	NONE					267 32 13

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 COTTON 2 RM 5	
Ref Mon # 2 MANIPORT	
Ref Mon # 3 KENNPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470007	Date Monumented 6/11/2002	Monumented By AHTD	County MISSISSIPPI	Route 18	Job Number: 100308
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	173,931.2199		
Easting (M)	557,263.6170		
Elevation (M)*	70.084		
Northing (SFT)	570,639.3440		
Easting (SFT)	1,828,289.0501		
Elevation (SFT)*	229.934		

Convergence Angle	1	0	49.0630319
Scale Factor	0.999949997		
Elevation Adjust. Factor	0.9999890017		
Combined Adjust. Factor	0.9999389992		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	284	9.10	29.9
MK # 2	SOUTHWEST CORNER BRICK SIGN	53	21.50	70.5
MK # 3	SOUTH END CONCRETE HEADWALL	92	23.40	76.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD PAR 1	BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 231.5042 FEET
Ref Mon # 2 VILLPORT	
Ref Mon # 3 MANIPORT	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 53 18.7874736
Longitude	90 15 29.0453688
Ellipsoid Height (M):	42.039
Geoid Height (M):	-28.004

Location Description
TO REACH THE STATION FROM THE CRAIGHEAD - MISSISSIPPI COUNTY LINE, GO EAST 1.62 MILES TO THE STATION ON THE LEFT AT THE NORTHWEST CORNER OF THE JUNCTION OF HWY. 18 AND HWY. 119. THE STATION IS 16.50 METERS FROM THE CENTERLINE OF HWY 18, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "47007 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470007A	Date Monumented 6/11/2002	Monumented By AHTD	County MISSISSIPPI	Route 119	Job Number: 100308, 100653
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	174,478.3769	
Easting (M)	557,296.1680	
Elevation (M)*	70.563	
Northing (SFT)	572,434.4749	
Easting (SFT)	1,828,395.8445	
Elevation (SFT)*	231.505	

Convergence Angle	1	0	50.0428122
Scale Factor	0.999950456		
Elevation Adjust. Factor	0.9999889265		
Combined Adjust. Factor	0.9999393830		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	POWER POLE	281		21.25	69.7
MK # 2	GAS METER	260		21.00	68.9
MK # 3	UNDERGROUND CABLE MARKER	155		8.65	28.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 229.9326 FEET
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470008A	Date Monumented 6/11/2002	Monumented By AHTD	County MISSISSIPPI	Route 18	Job Number: 100308,100654, 100653
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Vertical Determined By:</td> <td colspan="3">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="3">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="3"></td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>53</td> <td>15.0234144</td> </tr> <tr> <td>Longitude</td> <td>90</td> <td>11</td> <td>13.0694496</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>43.881</td> <td colspan="2"></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-27.980</td> <td colspan="2"></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center; padding: 5px;">Location Description</th> </tr> <tr> <td style="padding: 5px;"> <p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 77 NORTH IN MANILA, GO WEST ON HIGHWAY 18 0.61 MILES TO THE STATION ON THE RIGHT. THE STATION IS 9.30 METERS FROM THE CENTERLINE OF HIGHWAY 18, 24.0 METERS FROM THE CENTERLINE OF AN ASPHALT DRIVEWAY, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "470008A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG DRIVEN FLUSH WITH THE GROUND.</p> </td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality			Elevation Datum:	NAVD 88			Geoid Datum:				Latitude	35	53	15.0234144	Longitude	90	11	13.0694496	Ellipsoid Height (M):	43.881			Geoid Height (M):	-27.980			Location Description	<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 77 NORTH IN MANILA, GO WEST ON HIGHWAY 18 0.61 MILES TO THE STATION ON THE RIGHT. THE STATION IS 9.30 METERS FROM THE CENTERLINE OF HIGHWAY 18, 24.0 METERS FROM THE CENTERLINE OF AN ASPHALT DRIVEWAY, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "470008A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG DRIVEN FLUSH WITH THE GROUND.</p>
Vertical Determined By:	LEVEL - Unkown Quality																															
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<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 77 NORTH IN MANILA, GO WEST ON HIGHWAY 18 0.61 MILES TO THE STATION ON THE RIGHT. THE STATION IS 9.30 METERS FROM THE CENTERLINE OF HIGHWAY 18, 24.0 METERS FROM THE CENTERLINE OF AN ASPHALT DRIVEWAY, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "470008A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG DRIVEN FLUSH WITH THE GROUND.</p>																																
Horizontal Datum	NAD 83 (1997)																															
Northing (M)	173,931.1159																															
Easting (M)	563,684.4310																															
Elevation (M)*	71.861																															
Northing (SFT)	570,639.0027																															
Easting (SFT)	1,849,354.6707																															
Elevation (SFT)*	235.764																															

Convergence Angle	1	3	18.0151961
Scale Factor	0.999949901		
Elevation Adjust. Factor	0.9999887228		
Combined Adjust. Factor	0.9999386244		

SUPERCEDED CONTROL																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Horizontal Datum</td> <td colspan="3"></td> </tr> <tr> <td>Latitude</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td colspan="3"></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td colspan="3"></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td colspan="3"></td> </tr> </table>	Horizontal Datum				Latitude				Longitude				Ellipsoid Height:				Grid Northing (Meters)				Grid Easting (Meters)			
Horizontal Datum																								
Latitude																								
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Grid Northing (Meters)																								
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Location Reference Marks																														
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;"></th> <th style="width: 30%;">Description</th> <th style="width: 10%;">Azimuth</th> <th colspan="2" style="width: 20%;">Distance</th> <th style="width: 20%;"></th> </tr> <tr> <th></th> <th></th> <th></th> <th>Meters</th> <th>Feet</th> <th></th> </tr> <tr> <td>MK # 1</td> <td>EAST END CORRUGATED METAL PIPE</td> <td>286</td> <td>21.35</td> <td>70.0</td> <td>AZ Mark Station 470008</td> </tr> <tr> <td>MK # 2</td> <td>POWER POLE</td> <td>312</td> <td>16.65</td> <td>54.6</td> <td>Geodetic Azimuth 272 23 53</td> </tr> <tr> <td>MK # 3</td> <td></td> <td></td> <td></td> <td></td> <td>Grid Azimuth 271 20 35</td> </tr> </table>		Description	Azimuth	Distance						Meters	Feet		MK # 1	EAST END CORRUGATED METAL PIPE	286	21.35	70.0	AZ Mark Station 470008	MK # 2	POWER POLE	312	16.65	54.6	Geodetic Azimuth 272 23 53	MK # 3					Grid Azimuth 271 20 35
	Description	Azimuth	Distance																											
			Meters	Feet																										
MK # 1	EAST END CORRUGATED METAL PIPE	286	21.35	70.0	AZ Mark Station 470008																									
MK # 2	POWER POLE	312	16.65	54.6	Geodetic Azimuth 272 23 53																									
MK # 3					Grid Azimuth 271 20 35																									

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>AHTD PAR 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>VILLPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MANIPOINT</td> </tr> </table>	Ref Mon # 1	AHTD PAR 1	Ref Mon # 2	VILLPORT	Ref Mon # 3	MANIPOINT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center; padding: 5px;">Comments</th> </tr> <tr> <td style="padding: 5px;"> <p>BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 237.4426 FEET</p> </td> </tr> </table>	Comments	<p>BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 237.4426 FEET</p>
Ref Mon # 1	AHTD PAR 1								
Ref Mon # 2	VILLPORT								
Ref Mon # 3	MANIPOINT								
Comments									
<p>BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 237.4426 FEET</p>									

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470009	Date Monumented 6/11/2002	Monumented By AHTD	County MISSISSIPPI	Route N/A	Job Number: 100307,100654
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	171,835.7420	
Easting (M)	567,456.9950	
Elevation (M)*	73.332	
Northing (SFT)	563,764.4302	
Easting (SFT)	1,861,731.8244	
Elevation (SFT)*	240.590	

Convergence Angle	1	4	44.6150250
Scale Factor	0.999948160		
Elevation Adjust. Factor	0.9999884920		
Combined Adjust. Factor	0.9999366525		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	5	23.15	76.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	VILLPORT
Ref Mon # 3	MANIPORT

Comments
BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 241.0261 FEET

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 77 NORTH IN MANILA, GO EAST 2.00 MILES TO MISSISSIPPI COUNTY ROAD N275. TURN LEFT (NORTH) ON MISSISSIPPI CO. RD. N275 0.42 MILES TO STATION ON THE RIGHT. THE STATION IS 5.50 METERS FROM THE CENTERLINE OF CO. RD. N275, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "470009 2002" SET ON TOP OF AN IRON ROD 1.22M LONG DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	470009A
Geodetic Azimuth	180 20 02
Grid Azimuth	179 15 18

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 470009A	Date Monumented 6/11/2002	Monumented By AHTD	County MISSISSIPPI	Route 18	Job Number: 100307,100654
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	171,152.1309	
Easting (M)	567,465.8860	
Elevation (M)*	73.458	
Northing (SFT)	561,521.6161	
Easting (SFT)	1,861,760.9943	
Elevation (SFT)*	241.003	

Convergence Angle	1	4	44.5226092
Scale Factor	0.999947635		
Elevation Adjust. Factor	0.9999884722		
Combined Adjust. Factor	0.9999361078		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	204	14.35	47.1
MK # 2	POWER POLE	31	26.60	87.3
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD PAR 1 Ref Mon # 2 VILLPORT Ref Mon # 3 MANIPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 240.6051 FEET </td> </tr> </table>	Comments	BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 240.6051 FEET
Comments			
BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 240.6051 FEET			

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 51 42.5851596
Longitude	90 8 44.4055164
Ellipsoid Height (M):	45.543
Geoid Height (M):	-27.915

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 77 NORTH IN MANILA, GO EAST ON HIGHWAY 18 2.78 MILES TO THE STATION ON THE LEFT. THE STATION IS 5.3 METERS FROM THE CENTERLINE OF A FIELD ENTRANCE, 4.3 METERS FROM THE CENTERLINE OF MISSISSIPPI COUNTY ROAD N275, 23.6 METERS FROM THE CENTERLINE OF HIGHWAY 18, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP SET ON TOP OF AN IRON ROD 1.22M LONG DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470010	Date Monumented 6/11/2002	Monumented By AHTD	County MISSISSIPPI	Route 18	Job Number: 100304
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	169,514.8350	
Easting (M)	572,165.8290	
Elevation (M)*		
Northing (SFT)	556,149.9212	
Easting (SFT)	1,877,180.7240	
Elevation (SFT)*		

Convergence Angle	1	6	32.7800912
Scale Factor	0.999946359		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	86	23.15	76.0	AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD PAR 1	BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 238.0406 FEET
Ref Mon # 2 VILLPORT	
Ref Mon # 3 MANIPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470010A	Date Monumented 6/11/2002	Monumented By AHTD	County MISSISSIPPI	Route 18	Job Number: 100304
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	169,484.4670				
Easting (M)	571,600.2860				
Elevation (M)*	72.562				
Northing (SFT)	556,050.2888				
Easting (SFT)	1,875,325.2717				
Elevation (SFT)*	238.064				

Convergence Angle	1	6	19.6539859
Scale Factor	0.999946345		
Elevation Adjust. Factor	0.9999886128		
Combined Adjust. Factor	0.9999349584		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	271	29.75	97.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: AHTD PAR 1	BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 235.9162 FEET
Ref Mon # 2: VILLPORT	
Ref Mon # 3: MANIPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470011	Date Monumented 6/11/2002	Monumented By AHTD	County MISSISSIPPI	Route 18	Job Number: 100304
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	171,202.7539	
Easting (M)	577,879.8230	
Elevation (M)*		
Northing (SFT)	561,687.7018	
Easting (SFT)	1,895,927.3860	
Elevation (SFT)*		

Convergence Angle	1	8	46.0442295
Scale Factor	0.999947520		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END CORRUGATED METAL PIPE	90	2.00	6.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: AHTD PAR 1	BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 239.3959 FEET
Ref Mon # 2: VILLPORT	
Ref Mon # 3: MANIPORT	

Vertical Determined By: NONE	
Elevation Datum: NONE	
Geoid Datum:	
Latitude	35 51 37.6664292
Longitude	90 1 49.3479768
Ellipsoid Height (M):	45.092
Geoid Height (M):	-27.877

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 181 NORTH IN DELL, GO EAST 0.70 MILES TO THE STATION ON THE LEFT. THE STATION IS 4.90 METERS FROM THE CENTERLINE OF A FIELD ENTRANCE, 10.8 METERS FROM THE CENTERLINE OF HIGHWAY 18, AN 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "470010 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470011A	Date Monumented 6/11/2002	Monumented By AHTD	County MISSISSIPPI	Route 18	Job Number: 100304
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	171,653.6319	
Easting (M)	578,473.8960	
Elevation (M)*		
Northing (SFT)	563,166.9573	
Easting (SFT)	1,897,876.4405	
Elevation (SFT)*		

Convergence Angle	1	9	0.0303513
Scale Factor	0.999947854		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END CORRUGATED METAL PIPE	87	3.25	10.7
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	VILLPORT
Ref Mon # 3	MANIPORT

Comments
BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 239.9906 FEET

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 181 NORTH IN DELL, GO EAST 1.20 MILES TO THE STATION ON THE LEFT. THE STATION IS 6.3 METERS FROM THE CENTERLINE OF A FIELD ENTRANCE, 10.1 METERS FROM THE CENTERLINE OF HIGHWAY 18, AND 1.00 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP SET ON TOP OF A STEEL ROD 1.22M LONG DRIVEN FLUSH WITH THE GROUND.

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 51 51.9068520
Longitude	90 1 25.3126740
Ellipsoid Height (M):	45.271
Geoid Height (M):	-27.884

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470012	Date Monumented 1/3/2003	Monumented By AHTD	County MISSISSIPPI	Route 297	Job Number: 100105
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	141,702.4640	
Easting (M)	561,795.2130	
Elevation (M)*		
Northing (SFT)	464,902.1673	
Easting (SFT)	1,843,156.4613	
Elevation (SFT)*		

Convergence Angle	1	2	20.6287407
Scale Factor	0.999935962		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 35 50.5715424
Longitude	90 12 51.6886992
Ellipsoid Height (M):	40.369
Geoid Height (M):	-27.668

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-14 AND HWY-297 EAST OF LEPANTO, GO SOUTH ON HWY-297 FOR 0.90 MILES TO THE STATION ON THE RIGHT, NORTHEAST OF A WATER TOWER. 10.5 METERS WEST OF THE CENTER OF HWY-297, 25.4 METERS NORTH OF A GRAVEL DRIVE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED " 470012 2003 " SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	SOUTHWEST CORNER OF BRIDGE	10	35.40	116.1	470012A
MK # 2	NORTHEAST CORNER OF METAL BUILDING	232	18.10	59.4	271 18 34
MK # 3	NORTHWEST CORNER OF BRIDGE	170	40.90	134.2	270 16 13

Area Reference Monuments (used for Processing) Ref Mon # 1 480016, Bloomfield CORS Ref Mon # 2 MEM2, BUTLER Ref Mon # 3 AHTD PAR 1	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470012A	Date Monumented 1/3/2003	Monumented By AHTD	County MISSISSIPPI	Route N/A	Job Number: 100105
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	141,706.2240	
Easting (M)	560,998.1700	
Elevation (M)*		
Northing (SFT)	464,914.5032	
Easting (SFT)	1,840,541.4961	
Elevation (SFT)*		

Convergence Angle	1	2	2.2070638
Scale Factor	0.999935962		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 480016, Bloomfield CORS	
Ref Mon # 2 MEM2, BUTLER	
Ref Mon # 3 AHTD PAR 1	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 35 51.1613772
Longitude	90 13 23.3465520
Ellipsoid Height (M):	40.077
Geoid Height (M):	-27.671

Location Description
<p>TO REACH FROM U.S. STATE HIGHWAY 14 AND 297 EAST OF LEPANTO GO SOUTH ON 297 FOR 0.85 MI TO A GRAVEL COUNTY ROAD W924 AND TURN RIGHT (WEST) AND GO 0.50 MI TO THE STATION ON THE RIGHT 5.20 METERS WEST OF A FIELD ROAD AND 8.70 METERS NORTH OF THE COUNTY ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "470012A 2003" ON TOP OF A 1.22 METER LONG IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	470012
Geodetic Azimuth	91 18 15
Grid Azimuth	90 16 13

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470013	Date Monumented 10/30/2003	Monumented By AHTD	County MISSISSIPPI	Route 18	Job Number: 100302,100663
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	178,760.8509	
Easting (M)	586,608.8110	
Elevation (M)*	75.965	
Northing (SFT)	586,484.5583	
Easting (SFT)	1,924,565.7408	
Elevation (SFT)*	249.228	

Convergence Angle	1	12	12.1425566
Scale Factor	0.999953773		
Elevation Adjust. Factor	0.9999880788		
Combined Adjust. Factor	0.9999418523		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	320	1.68	5.5
MK # 2	POWER POLE W/METER	295	18.90	62.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 BLOOMFIELD C.O.R.S. Ref Mon # 2 MEM2 C.O.R.S. Ref Mon # 3 470011, 470003	Comments 3-Wire Levels ran to mark from 1st Order NGS marks B189 & E189 by crew S5102 & S5110.
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Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 55 37.0428024
Longitude	89 55 55.1657532
Ellipsoid Height (M):	47.962
Geoid Height (M):	-28.021

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 18 AND 151 ON THE WEST SIDE OF BLYTHEVILLE, GO WEST ON HWY-18 FOR 0.10 MILES TO THE STATION ON THE RIGHT. 83 FEET NORTHWEST OF THE CENTER OF HWY-18, 54 FEET SOUTHWEST OF THE CENTER OF A DRIVEWAY, 65 FEET NORTHEAST OF THE CENTER OF A DRIVEWAY AND 4.0 FEET NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "470013 2003" SET ON TOP OF AN IRON ROD 4 FEET LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	470003
Geodetic Azimuth	230 31 21
Grid Azimuth	229 19 09

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470014	Date Monumented 10/30/2003	Monumented By AHTD	County MISSISSIPPI	Route 18	Job Number: 100302
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	174,639.9429				
Easting (M)	582,460.0500				
Elevation (M)*	74.111				
Northing (SFT)	572,964.5460				
Easting (SFT)	1,910,954.3474				
Elevation (SFT)*	243.146				

Convergence Angle	1	10	33.8925795
Scale Factor	0.999950187		
Elevation Adjust. Factor	0.9999883697		
Combined Adjust. Factor	0.9999385573		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	74	4.27	14.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BLOOMFIELD C.O.R.S.	
Ref Mon # 2 MEM2 C.O.R.S.	
Ref Mon # 3 470011, 470003	

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 53 26.1576924

Longitude 89 58 44.0094108

Ellipsoid Height (M): 46.172

Geoid Height (M): -27.939

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 18 AND 151 ON THE WEST SIDE OF BLYTHEVILLE, GO WEST ON HWY-18 FOR 3.85 MI. TO THE STATION ON THE LEFT. 74.0 FEET SOUTHEAST OF THE CENTER OF HWY-18, 100.0 FEET NORTHEAST OF THE CENTER OF A FIELD ENTRANCE AND 3.0 FEET NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "470014 2003" SET ON TOP OF AN IRON ROD 4 FEET IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470014A	Date Monumented 10/30/2003	Monumented By AHTD	County MISSISSIPPI	Route 18	Job Number: 100302
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	175,019.5779	
Easting (M)	582,959.7320	
Elevation (M)*		
Northing (SFT)	574,210.0652	
Easting (SFT)	1,912,593.7207	
Elevation (SFT)*		

Convergence Angle	1	10	45.6654767
Scale Factor	0.999950499		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	120	1.98	6.5
MK # 2	16 INCH CMP	25	9.66	31.7
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>BLOOMFIELD C.O.R.S.</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MEM2 C.O.R.S.</td> </tr> <tr> <td>Ref Mon # 3</td> <td>470011, 470003</td> </tr> </table>	Ref Mon # 1	BLOOMFIELD C.O.R.S.	Ref Mon # 2	MEM2 C.O.R.S.	Ref Mon # 3	470011, 470003	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	BLOOMFIELD C.O.R.S.							
Ref Mon # 2	MEM2 C.O.R.S.							
Ref Mon # 3	470011, 470003							
Comments								

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 53 38.1397236

Longitude 89 58 23.7775584

Ellipsoid Height (M): 46.393

Geoid Height (M): -27.947

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 18 AND 151 ON THE WEST SIDE OF BLYTHEVILLE, GO WEST ON HWY-18 FOR 3.40 MI. TO THE STATION ON THE LEFT. 73.0 FEET SOUTHEAST OF THE CENTER OF HWY-18, 44 FEET SOUTHWEST OF THE CENTER OF A FIELD ENTRANCE AND 3.8 FEET NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "470014A 2003" SET ON TOP OF AN IRON ROD 4 FEET IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470015	Date Monumented 11/18/2008	Monumented By AHTD	County Mississippi	Route NA	Job Number: 100663, 100716, 100724
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	178,666.9239	
Easting (M)	588,615.1100	
Elevation (M)*	78.337	
Northing (SFT)	586,176.3995	
Easting (SFT)	1,931,148.0734	
Elevation (SFT)*	257.011	

Convergence Angle	1	12	58.6587925
Scale Factor	0.999953645		
Elevation Adjust. Factor	0.9999877065		
Combined Adjust. Factor	0.9999413521		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Power pole w/guy	203	5.18	17.0	AZ Mark Station 470015A
MK # 2	USGS BM E 189	300	23.47	77.0	Geodetic Azimuth 269 15 02
MK # 3	Center of a drop inlet	352	26.82	88.0	Grid Azimuth 268 02 03

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TN42 TN45	Mark ran to by 3-Wire Levels by crew S5102 in November 08 from 1st order NGS marks B189 & E189.
Ref Mon # 2 ARPG	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470015A	Date Monumented 11/18/2008	Monumented By AHTD	County Mississippi	Route NA	Job Number: 100663, 100716, 100724
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	178,652.4439	
Easting (M)	588,193.2160	
Elevation (M)*	77.988	
Northing (SFT)	586,128.8930	
Easting (SFT)	1,929,763.9095	
Elevation (SFT)*	255.867	

Convergence Angle	1	12	48.8604277
Scale Factor	0.999953640		
Elevation Adjust. Factor	0.9999877612		
Combined Adjust. Factor	0.9999414018		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Fire hydrant		245	7.77	25.5
MK # 2	Gate post and fence corner		97	10.66	35.0
MK # 3	Sewer manhole		25	19.51	64.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TN42 TN45 Ref Mon # 2 ARPG Ref Mon # 3	Mark ran to by 3-Wire Levels by crew S5102 in November 08 from 1st order NGS marks B189 & E189.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470016	Date Monumented 2/2/2010	Monumented By AHTD	County MISSISSIPPI	Route 148	Job Number: 100723,100716,100998
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	171,858.5849	
Easting (M)	596,065.0780	
Elevation (M)*	76.773	
Northing (SFT)	563,839.3740	
Easting (SFT)	1,955,590.1767	
Elevation (SFT)*	251.878	

Convergence Angle	1	15	48.0686768
Scale Factor	0.999947727		
Elevation Adjust. Factor	0.9999879520		
Combined Adjust. Factor	0.9999356797		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH GUY	142	1.95	6.4
MK # 2	SOUTH END CULVERT	302	9.82	32.2
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARPG</td> </tr> <tr> <td>Ref Mon # 2</td> <td>EDM2</td> </tr> <tr> <td>Ref Mon # 3</td> <td>TN42</td> </tr> </table>	Ref Mon # 1	ARPG	Ref Mon # 2	EDM2	Ref Mon # 3	TN42	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>THREE WIRE LEVELS RAN BY CREW S5112 OF MARCH 3 2010 BETWEEN T 213 AND U 213 IN JOB 100BR3.</td> </tr> </table>	Comments	THREE WIRE LEVELS RAN BY CREW S5112 OF MARCH 3 2010 BETWEEN T 213 AND U 213 IN JOB 100BR3.
Ref Mon # 1	ARPG								
Ref Mon # 2	EDM2								
Ref Mon # 3	TN42								
Comments									
THREE WIRE LEVELS RAN BY CREW S5112 OF MARCH 3 2010 BETWEEN T 213 AND U 213 IN JOB 100BR3.									

Location Description
THE STATION, SOUTH OF BLYTHEVILLE, IS LOCATED SOUTH OF THE JUNCTION OF STATE HIGHWAY 151 & 148, 37.3 FEET SOUTH OF THE C/L OF STATE HIGHWAY 148, 36.3 FEET WEST OF C/L OF COUNTY ROAD N839, 6.8 FEET NORTHWEST OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "470016 2010" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	470016A
Geodetic Azimuth	273 20 55
Grid Azimuth	272 05 07

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470016A	Date Monumented 2/2/2010	Monumented By AHTD	County MISSISSIPPI	Route 148	Job Number: 100723,100716,100998
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	171,875.7099	
Easting (M)	595,594.7420	
Elevation (M)*	77.243	
Northing (SFT)	563,895.5582	
Easting (SFT)	1,954,047.0827	
Elevation (SFT)*	253.421	

Convergence Angle	1	15	37.1706797
Scale Factor	0.999947748		
Elevation Adjust. Factor	0.9999878782		
Combined Adjust. Factor	0.9999356269		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE WITH METER	90	45.78	150.2	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG Ref Mon # 2 EDM2 Ref Mon # 3 TN42	THREE WIRE LEVEL RAN BY CREW S5112 OF MARCH 3 2010 BETWEEN T 213 AND U 213 IN JOB 100BR3.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470017	Date Monumented 2/4/2010	Monumented By AHTD	County MISSISSIPPI	Route 312	Job Number: 100BR4, 100716, 100724
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	177,459.3439	
Easting (M)	591,611.0890	
Elevation (M)*	83.074	
Northing (SFT)	582,214.5308	
Easting (SFT)	1,940,977.3812	
Elevation (SFT)*	272.551	

Convergence Angle	1	14	7.5840198
Scale Factor	0.999952476		
Elevation Adjust. Factor	0.9999869632		
Combined Adjust. Factor	0.9999394398		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTHEAST CORNER OF BRIDGE END	311	5.61	18.4	
MK # 2	12 INCH CMP	100	5.49	18.0	
MK # 3					

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARPG</td> </tr> <tr> <td>Ref Mon # 2</td> <td>TN42</td> </tr> <tr> <td>Ref Mon # 3</td> <td>EDM2</td> </tr> </table>	Ref Mon # 1	ARPG	Ref Mon # 2	TN42	Ref Mon # 3	EDM2	<table border="1" style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>THREE WIRE LEVELS RAN BY CREW S5112 ON 3/3/2010 FROM E 189 THROUGH A 189.</td> </tr> </table>	Comments	THREE WIRE LEVELS RAN BY CREW S5112 ON 3/3/2010 FROM E 189 THROUGH A 189.
Ref Mon # 1	ARPG								
Ref Mon # 2	TN42								
Ref Mon # 3	EDM2								
Comments									
THREE WIRE LEVELS RAN BY CREW S5112 ON 3/3/2010 FROM E 189 THROUGH A 189.									

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 239 AND STATE HIGHWAY 312, WEST OF BLYTHEVILLE, GO EAST ON 312 FOR 0.8 MILES TO THE MARK ON THE RIGHT AT THE SOUTHEAST CORNER OF THE 312 OVERPASS OVER I 55, SOUTH 22 FEET OF THE CENTERLINE OF 312 AND SOUTH 4.6 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "470017 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	470017A
Geodetic Azimuth	88 53 36
Grid Azimuth	87 39 29

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470017A	Date Monumented 2/4/2010	Monumented By AHTD	County MISSISSIPPI	Route 312	Job Number: 100BR4, 100716, 100724
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	177,486.5229	
Easting (M)	592,275.6260	
Elevation (M)*	75.606	
Northing (SFT)	582,303.7005	
Easting (SFT)	1,943,157.6163	
Elevation (SFT)*	248.049	

Convergence Angle	1	14	23.0177744
Scale Factor	0.999952487		
Elevation Adjust. Factor	0.9999881352		
Combined Adjust. Factor	0.9999406227		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF CHAINLINK FENC	0	6.77	22.2
MK # 2	SOUTHEAST CORNER OF CHAINLINK FENC	47	9.78	32.1
MK # 3	TELEPHONE RISER	105	14.69	48.2

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 TN42 Ref Mon # 3 EDM2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>THREE WIRE LEVELS RAN BY CREW S5112 ON 3/3/2010 FROM E 189 THROUGH A 189.</td> </tr> </table>	Comments	THREE WIRE LEVELS RAN BY CREW S5112 ON 3/3/2010 FROM E 189 THROUGH A 189.
Comments			
THREE WIRE LEVELS RAN BY CREW S5112 ON 3/3/2010 FROM E 189 THROUGH A 189.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 239 AND STATE HIGHWAY 312, WEST OF BLYTHEVILLE, GO EAST ON 312 FOR 1.2 MILES TO THE MARK ON THE LEFT, WEST 10.6 FEET OF THE CENTERLINE OF A DIRT PULL OFF, SOUTH 44.5 FEET OF THE CENTERLINE OF 312 AND EAST 16.9 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1 1/2 INCH CAP STAMPED "470017A 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	470017
Geodetic Azimuth	268 53 52
Grid Azimuth	267 39 29

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470018	Date Monumented 10/21/2010	Monumented By AHTD	County Mississippi	Route CR-N757	Job Number: 10786_6
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	186,745.2439
Easting (M)	591,559.7400
Elevation (M)*	77.268
Northing (SFT)	612,680.0210
Easting (SFT)	1,940,808.9137
Elevation (SFT)*	253.503

Convergence Angle	1 14 11.0429726
Scale Factor	0.999961936
Elevation Adjust. Factor	0.9999878743
Combined Adjust. Factor	0.9999498107

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 59 52.6257564
Longitude	89 52 30.8340912
Ellipsoid Height (M):	49.099
Geoid Height (M):	-28.169

Location Description
<p>To reach the station from the junction of I-55 and SR-150 (exit 71) north of Blytheville, go north on the service road on the west side of I-55 (CR-N757) to the station on the right just past the southbound weigh station; 4 feet east of a guardrail, 4 feet east of the witness post, 22 feet east of the centerline of service road CR-N757, 35 feet west of the centerline of the southbound weigh station entrance ramp, 102 feet west of the centerline of southbound I-55, the station mark is a 2 1/2 inch aluminum cap stamped "470018 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.2 feet below the surface.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Light Pole	146	7.62	25.0
MK # 2	End of Guardrail	4	11.89	39.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG	
Ref Mon # 2 MOKE	
Ref Mon # 3 TNS@	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470018A	Date Monumented 10/21/2010	Monumented By AHTD	County Mississippi	Route CR-N757	Job Number: 10786_6,101009
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	186,115.6919	
Easting (M)	591,583.5690	
Elevation (M)*	77.295	
Northing (SFT)	610,614.5658	
Easting (SFT)	1,940,887.0926	
Elevation (SFT)*	253.592	

Convergence Angle	1	14	11.2808539
Scale Factor	0.999961227		
Elevation Adjust. Factor	0.9999878700		
Combined Adjust. Factor	0.9999490975		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	End of guardrail	92	7.62	25.0
MK # 2	East end of 24 inch concrete culvert	6	3.96	13.0
MK # 3	Northeast end of headwall over Pemiscot	182	66.75	219.0

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARPG</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MOKE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>TN42</td> </tr> </table>	Ref Mon # 1	ARPG	Ref Mon # 2	MOKE	Ref Mon # 3	TN42	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARPG						
Ref Mon # 2	MOKE						
Ref Mon # 3	TN42						

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 59 32.1875808
Longitude	89 52 30.4252896
Ellipsoid Height (M):	49.137
Geoid Height (M):	-28.158

Location Description
<p>To reach the station from the junction of I-55 and SR-150 (exit 71) north of Blytheville, go north on the service road on the west side of I-55 (CR-N757) 0.4 miles to the station on the right; 3 feet south of the southeast end of the headwall of a cross culvert, 3 feet south of the witness post, 20 feet east of the centerline of the service road (CR-N757), 75 feet west of the centerline of I-55 southbound, the station mark is a 2 1/2 inch aluminum cap stamped "470018A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.2 feet below the surface.</p>

AZ Mark Station	470018
Geodetic Azimuth	359 04 08
Grid Azimuth	357 49 56

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470019	Date Monumented 10/21/2010	Monumented By AHTD	County Mississippi	Route CR-E2	Job Number: 10786_6
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	186,847.2940	
Easting (M)	588,616.0440	
Elevation (M)*	76.968	
Northing (SFT)	613,014.8304	
Easting (SFT)	1,931,151.1377	
Elevation (SFT)*	252.519	

Convergence Angle	1	13	2.7149748
Scale Factor	0.999962124		
Elevation Adjust. Factor	0.9999879214		
Combined Adjust. Factor	0.9999500458		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole with guy	3	20.12	66.0
MK # 2	Railroad mile marker	170	12.80	42.0
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARPG</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MOKE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>TN42</td> </tr> </table>	Ref Mon # 1	ARPG	Ref Mon # 2	MOKE	Ref Mon # 3	TN42	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARPG							
Ref Mon # 2	MOKE							
Ref Mon # 3	TN42							
Comments								

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 59 57.9811416

Longitude 89 54 28.2565008

Ellipsoid Height (M): 48.791

Geoid Height (M): -28.177

Location Description

To reach the station from the junction of I-55 and SR-150 (exit 71) north of Blytheville, go north on the service road on the west side of I-55 (CR-N757) 0.9 miles then turn left (west) on state line gravel road (CR-E2) and go 0.5 miles crossing US-61 and the railroad tracks to the station on the left. The station is in the southwest quadrant of the railroad and CR-E2 intersection; 1.5 feet south of the witness post, 26 feet south of the centerline of CR-E2, 53 feet west of the east rail, 63 feet southwest of the center of the railroad crossing, the station mark is a 2 1/2 inch aluminum cap stamped "470019 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.2 feet below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470019A	Date Monumented 10/21/2010	Monumented By AHTD	County Mississippi	Route CR-N695	Job Number: 10786_6,101009
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	186,365.7999	
Easting (M)	588,438.4350	
Elevation (M)*		
Northing (SFT)	611,435.1285	
Easting (SFT)	1,930,568.4322	
Elevation (SFT)*		

Convergence Angle	1	12	58.3518088
Scale Factor	0.999961583		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	east end of 36 inch RCP culvert	305		8.23	27.0
MK # 2	north end of 18 inch CMP culvert	275		3.96	13.0
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 MOKE Ref Mon # 3 TN42	Comments <div style="border: 1px solid black; height: 100px;"></div>
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Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 59 42.4846428
Longitude	89 54 35.7546492
Ellipsoid Height (M):	49.275
Geoid Height (M):	-28.169

Location Description
To reach the station from the junction of I-55 and SR-150 (exit 71) north of Blytheville, go north on the service road on the west side of I-55 (CR-N757) 0.9 miles then turn left (west) on state line gravel road (CR-E2) and go 0.6 miles crossing US-61 and the railroad tracks then turn left (south) on gravel road (CR-N695) for 0.3 miles to the station on the left. The station is in the southeast quadrant of the drainage ditch junction; 1.5 feet south of the witness post, 36 feet east of the centerline of CR-695, 15 feet south of the centerline of the east-west drainage ditch, 13 feet east of the north-south drainage ditch. The station mark is a 2 1/2 inch aluminum cap stamped "470019A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.2 feet below the surface.

AZ Mark Station	470019
Geodetic Azimuth	21 27 50
Grid Azimuth	20 14 51

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470020	Date Monumented 3/4/2013	Monumented By AHTD	County MISSISSIPPI	Route ackson rd	Job Number: 100760
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	153,595.8151	
Easting (M)	560,836.2252	
Elevation (M)*	69.773	
Northing (SFT)	503,922.2700	
Easting (SFT)	1,840,010.1822	
Elevation (SFT)*	228.913	

Convergence Angle	1	2	3.4253287
Scale Factor	0.999938138		
Elevation Adjust. Factor	0.9999890505		
Combined Adjust. Factor	0.9999271891		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	East of power pole	275	1.52	5.0	
MK # 2	North of power pole	182	51.82	170.0	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. WAS EST BY 3RD ORDER DIGITAL LEVELS FROM AHTD BM 470003 WHICH WAS CONVERTED FROM NAVD29 (229.82) TO NAVD88 (229.974) BY CREW S5102 DURING JOB 100760 IN FEB 2013.</td> </tr> </table>	Comments	ELEV. WAS EST BY 3RD ORDER DIGITAL LEVELS FROM AHTD BM 470003 WHICH WAS CONVERTED FROM NAVD29 (229.82) TO NAVD88 (229.974) BY CREW S5102 DURING JOB 100760 IN FEB 2013.
Comments			
ELEV. WAS EST BY 3RD ORDER DIGITAL LEVELS FROM AHTD BM 470003 WHICH WAS CONVERTED FROM NAVD29 (229.82) TO NAVD88 (229.974) BY CREW S5102 DURING JOB 100760 IN FEB 2013.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470020A	Date Monumented 3/4/2013	Monumented By AHTD	County MISSISSIPPI	Route Hwy. 140	Job Number: 100760
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	152,985.5797	
Easting (M)	560,691.3557	
Elevation (M)*	69.958	
Northing (SFT)	501,920.1894	
Easting (SFT)	1,839,534.8895	
Elevation (SFT)*	229.519	

Convergence Angle	1	1	59.8175211
Scale Factor	0.999937942		
Elevation Adjust. Factor	0.9999890215		
Combined Adjust. Factor	0.9999269642		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Northeast of telephone box	220	2.74	9.0
MK # 2	Northeast of 48 in. Sicamore tree	255	35.66	117.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. WAS EST BY 3RD ORDER DIGITAL LEVELS FROM AHTD BM 470003 WHICH WAS CONVERTED FROM NAVD29 (229.82) TO NAVD88 (229.974) BY CREW S5102 DURING JOB 100760 IN FEB 2013.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470021	Date Monumented 3/4/2013	Monumented By AHTD	County MISSISSIPPI	Route 77	Job Number: 100760
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	146,654.1350	
Easting (M)	558,557.3328	
Elevation (M)*	68.908	
Northing (SFT)	481,147.7746	
Easting (SFT)	1,832,533.5160	
Elevation (SFT)*	226.076	

Convergence Angle	1	1	7.8219000
Scale Factor	0.999936451		
Elevation Adjust. Factor	0.9999891862		
Combined Adjust. Factor	0.9999256379		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
To reach from the intersection of Hwy. 198 and Hwy. 77 in Bondsville. Go South on Hwy. 77 for 0.3 miles to station on the right. The station is 2 ft. East of the witness post, and 38.5 ft. West of the centerline of Hwy. 77. The station mark is a 2 1/2 in. cap stamped "470021 2013" set on top of 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST OF NORTHEAST BUILDING CORNER	271	19.66	64.5
MK # 2	SOUTHEAST OF SOUTHEAST BUILDING CORNER	317	27.74	91.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ELEV. WAS EST BY 3RD ORDER DIGITAL LEVELS FROM AHTD BM 470003 WHICH WAS CONVERTED FROM NAVD29 (229.82) TO NAVD88 (229.974) BY CREW S5102 DURING JOB 100760 IN FEB 2013. </td> </tr> </table>	Comments	ELEV. WAS EST BY 3RD ORDER DIGITAL LEVELS FROM AHTD BM 470003 WHICH WAS CONVERTED FROM NAVD29 (229.82) TO NAVD88 (229.974) BY CREW S5102 DURING JOB 100760 IN FEB 2013.
Comments			
ELEV. WAS EST BY 3RD ORDER DIGITAL LEVELS FROM AHTD BM 470003 WHICH WAS CONVERTED FROM NAVD29 (229.82) TO NAVD88 (229.974) BY CREW S5102 DURING JOB 100760 IN FEB 2013.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470021A	Date Monumented 3/4/2013	Monumented By AHTD	County MISSISSIPPI	Route Co. rd. 780	Job Number: 100760
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	146,486.9754	
Easting (M)	559,046.8477	
Elevation (M)*	70.006	
Northing (SFT)	480,599.3518	
Easting (SFT)	1,834,139.5328	
Elevation (SFT)*	229.677	

Convergence Angle	1	1	19.0742262
Scale Factor	0.999936423		
Elevation Adjust. Factor	0.9999890139		
Combined Adjust. Factor	0.9999254376		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>To reach from the intersection of Hwy. 198 and Hwy. 77 in Bondsville. Go South on Hwy. 77 for 0.4 miles to Co. rd. 780. Then go East (left) down Co. rd. 780 for 0.3 miles to station on the right. The station is 3 ft. North of the witness post, and 30 ft. South of the centerline of Co. rd. 780. The station mark is a 2 1/2 in. cap stamped "470021A 2013" set on top of 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.</p>				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Southeast of Power pole	318	19.51	64.0	470021
MK # 2	Northeast of well head	234	16.46	54.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	<p>ELEV. WAS EST BY 3RD ORDER DIGITAL LEVELS FROM AHTD BM 470003 WHICH WAS CONVERTED FROM NAVD29 (229.82) TO NAVD88 (229.974) BY CREW S5102 DURING JOB 100760 IN FEB 2013.</p>
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470022	Date Monumented 2/19/2019	Monumented By AHTD	County Mississippi	Route 61	Job Number: 100980
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	146,254.4656 0.0010
Easting (M)	582,617.7990 0.0010
Elevation (M)*	71.958 0.0026
Northing (SFT)	479,836.5259
Easting (SFT)	1,911,471.8956
Elevation (SFT)*	236.083

Convergence Angle	1 10 24.0651195
Scale Factor	0.999936323
Elevation Adjust. Factor	0.9999887075
Combined Adjust. Factor	0.9999250312

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SERVICE POLE	215	36.58	120.0
MK # 2	RR SIGNAL POLE	71	37.80	124.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AROC Ref Mon # 2 TN45 Ref Mon # 3 ZME1	Levels ran from NGS BM N214 by crew S5101 during job 100980 in March 2019.

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12B
Latitude	35 38 5.2058400
Longitude	89 59 0.8980080
Ellipsoid Height (M):	44.323 0.0030
Geoid Height (M):	-27.643

Location Description
<p>TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 140 WEST AND U. S. HIGHWAY 61 SOUTH, LOCATED IN OSCEOLA, TRAVEL SOUTH ON U. S. HIGHWAY 61 FOR</p> <p>4.5 MILES TO THE STATION ON THE LEFT. THE STATION IS 48 FET SOUTHEAST OF THE CENTERLINE OF U. S. HIGHWAY 61 SOUTH, 38 FEET NORTHEAST OF THE NEAR RAIL OF THE RAILROAD AND 2 FEET NORTHWEST OF A WITNESS POST. THE MARK IS A 2" ALUMINIUM CAP STAMPED 470022, 2019. SET ON THE TOP OF A 4 FOOT LONG IRON ROD DRIVEN FLUSH WITH THE GROUND SURFACE.</p>

AZ Mark Station	470022A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470022A	Date Monumented 2/19/2019	Monumented By AHTD	County Mississippi	Route 61	Job Number: 100980
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	146,616.1117 0.0010
Easting (M)	582,850.5494 0.0010
Elevation (M)*	72.822 0.0026
Northing (SFT)	481,023.0265
Easting (SFT)	1,912,235.5108
Elevation (SFT)*	238.917

Convergence Angle	1 10 29.6187834
Scale Factor	0.999936374
Elevation Adjust. Factor	0.9999885720
Combined Adjust. Factor	0.9999249467

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12B
Latitude	35 38 16.7834760
Longitude	89 58 51.3539760
Ellipsoid Height (M):	45.177 0.0030
Geoid Height (M):	-27.645

Location Description
<p>TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 140 WEST AND U. S. HIGHWAY 61 SOUTH, LOCATED IN OSCEOLA, TRAVEL SOUTH ON U. S. HIGHWAY 61 FOR</p> <p>4.2 MILES TO THE STATION ON THE LEFT. THE STATION IS 48 FEET SOUTHEAST OF THE CENTERLINE OF U. S. HIGHWAY 61 SOUTH, 46 FEET NORTHEAST OF THE NEAR RAIL OF THE RAILROAD AND 2 FEET NORTHWEST OF A WITNESS POST. THE MARK IS A 2" ALUMINIUM CAP STAMPED 470022A, 2019. SET ON THE TOP OF A 4 FOOT LONG IRON ROD DRIVEN FLUSH WITH THE GROUND SURFACE.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	245	7.62	25.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AROC	Levels ran from NGS BM N214 by crew S5101 during job 100980 in March 2019.
Ref Mon # 2 TN45	
Ref Mon # 3 ZME1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470023	Date Monumented 2/19/2019	Monumented By AHTD	County Mississippi	Route 198	Job Number: 100980
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	148,470.2830	0.0010			
Easting (M)	586,522.0623	0.0010			
Elevation (M)*	74.681	0.0030			
Northing (SFT)	487,106.2535				
Easting (SFT)	1,924,281.1327				
Elevation (SFT)*	245.015				

Convergence Angle	1	11	55.4192791
Scale Factor	0.999936674		
Elevation Adjust. Factor	0.9999882803		
Combined Adjust. Factor	0.9999249551		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 140 WEST AND U. S. HIGHWAY 61 SOUTH, LOCATED IN OSCEOLA, TRAVEL SOUTH ON U. S. HIGHWAY 61 FOR 3.9 MILES, THEN TRAVEL NORTHEAST ON STATE HIGHWAY 198 FOR 2.6 MILES TO THE STATION ON THE LEFT. THE STATION IS 49 FEET NORTH OF THE CENTERLINE OF STATE HIGHWAY 198, 49 FEET WEST OF THE CENTER OF THE ENTRANCE TO BUNGE INC. AND 6 FEET SOUTH OF A WITNESS POST. THE MARK IS A 2" ALUMINIUM CAP STAMPED 470023, 2019. SET ON THE TOP OF A 4 FOOT LONG IRON ROD DRIVEN FLUSH WITH THE GROUND SURFACE.</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	WEST GATE POST	68		7.92	26.0
MK # 2	WEST END 30" CPM	263		6.10	20.0
MK # 3					

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	AROC	Levels ran from NGS BM N214 by crew S5101 during job 100980 in March 2019.
Ref Mon # 2	TN45	
Ref Mon # 3	ZME1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470023A	Date Monumented 6/22/1905	Monumented By COE	County Mississippi	Route 198	Job Number: 100980
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	148,458.9634 0.0010
Easting (M)	587,054.8827 0.0010
Elevation (M)*	81.671 0.0030
Northing (SFT)	487,069.1158
Easting (SFT)	1,926,029.2277
Elevation (SFT)*	267.949

Convergence Angle	1 12 7.7376321
Scale Factor	0.999936670
Elevation Adjust. Factor	0.9999871833
Combined Adjust. Factor	0.9999238541

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12B
Latitude	35 39 13.7384640
Longitude	89 56 2.7356640
Ellipsoid Height (M):	54.049 0.0000
Geoid Height (M):	-27.622

Location Description
<p>TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 140 WEST AND U. S. HIGHWAY 61 SOUTH, LOCATED IN OSCEOLA, TRAVEL SOUTH ON U. S. HIGHWAY 61 FOR 3.9 MILES, THEN TRAVEL NORTHEAST ON STATE HIGHWAY 198 FOR 3.0 MILES TO THE STATION ON THE RIGHT. THE STATION IS 107 FEET SOUTHEAST OF THE CENTERLINE OF STATE HIGHWAY 198, 18 FEET NORTHWEST OF THE CENTER OF THE LEVEE AND A METAL GATE AND 9 FEET NORTH OF A WITNESS POST. THE MARK IS A 3" C.O.E. ALUMINIUM CAP STAMPED SP-12-2000 SET ON TOP OF A IRON ROD DRIVEN FLUSH WITH THE GROUND SURFACE.</p>

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	CONC STAND PIPE	310	3.05	10.0	470023
MK # 2	WEST GATE POST	175	3.35	11.0	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments Levels ran from NGS BM N214 by crew S5101 during job 100980 in March 2019.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470024	Date Monumented 8/5/2019	Monumented By ARDOT	County MISSISSIPPI	Route CR 567	Job Number: 100098
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	165,682.0646 0.0020
Easting (M)	582,418.4341 0.0020
Elevation (M)*	
Northing (SFT)	543,575.2403
Easting (SFT)	1,910,817.8125
Elevation (SFT)*	

Convergence Angle	1 10 28.6663428
Scale Factor	0.999943664
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	179	31.10	102.0
MK # 2	POWER POLE W/TRANSFORMER	3	54.25	178.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	GPS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON ARDOT CORS ARJB & ARPG AND ON NGS 1ST ORDER BM's J 189 & Q 213 IN FINAL STATIC NETWORK ADJUSTMENT
Ref Mon # 2 ARPG	
Ref Mon # 3 MOKE, TN45	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	35 48 35.5906728
Longitude	89 58 52.9907556
Ellipsoid Height (M):	43.587 0.0150
Geoid Height (M):	-27.860 0.0150

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF I 55 AND STATE HIGHWAY 148, SOUTH OF BLYTHEVILLE, GO WEST ON HIGHWAY 148 0.55 MILES TO COUNTY ROAD 567 AND TURN LEFT (SOUTH) AND GO 0.25 MILES TO THE MARK ON THE RIGHT, WEST 43' OF THE C/L OF THE COUNTY ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 470024" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470024A	Date Monumented 8/5/2019	Monumented By ARDOT	County MISSISSIPPI	Route 148	Job Number: 100098
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	166,115.1097 0.0030
Easting (M)	582,404.7871 0.0020
Elevation (M)*	

Northing (SFT)	544,995.9891	
Easting (SFT)	1,910,773.0390	
Elevation (SFT)*		

Convergence Angle	1	10	28.5558443
Scale Factor	0.999943934		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 55 AND STATE HIGHWAY 148, SOUTH OF BLYTHEVILLE, GO WEST ON HIGHWAY 148 0.55 TO THE MARK ON THE LEFT, SOUTH 88' OF THE C/L OF THE HIGHWAY AND WEST 48' OF THE C/L OF COUNTY ROAD 567. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 470024A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 COMBINATION POLE	13	14.02	46.0	AZ Mark Station 470024
MK # 2 POWER POLE W/2 GUYS	163	10.05	33.0	Geodetic Azimuth
MK # 3				Grid Azimuth

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARJB</p> <p>Ref Mon # 2 ARPG</p> <p>Ref Mon # 3 MOKE, TN45</p>	<p style="text-align: center; margin: 0;">Comments</p> <p>GPS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON ARDOT CORS ARJB & ARPG AND ON NGS 1ST ORDER BM's J 189 & Q 213 IN FINAL STATIC NETWORK ADJUSTMENT</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470025	Date Monumented 12/4/2019	Monumented By ARDOT	County MISSISSIPPI	Route 61	Job Number: 101017, AIRBORNE 2020
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	127,963.0454	0.0020			
Easting (M)	565,384.8391	0.0010			
Elevation (M)*					
Northing (SFT)	419,825.4248				
Easting (SFT)	1,854,933.4263				
Elevation (SFT)*					

Convergence Angle	1	3	37.7217831
Scale Factor	0.999937812		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 207 AND STATE HIGHWAY 61, NORTH OF MARION, GO NORTH ON HIGHWAY 61 0.6 MILES TO THE MARK ON THE RIGHT, EAST 17.2' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 470025" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARPG</p> <p>Ref Mon # 2 AROC</p> <p>Ref Mon # 3 ARWY</p>	<p style="text-align: center;">Comments</p> <p>STATIC GPS DERIVED ELEV. 225.7758</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470025A	Date Monumented 12/4/2019	Monumented By ARDOT	County MISSISSIPPI	Route 61	Job Number: 101017, AIRBORNE 2020
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	128,385.0536	0.0020			
Easting (M)	565,652.5103	0.0010			
Elevation (M)*	70.053				
Northing (SFT)	421,209.9634				
Easting (SFT)	1,855,811.6109				
Elevation (SFT)*	229.832				

Convergence Angle	1	3	44.0798413
Scale Factor	0.999937687		
Elevation Adjust. Factor	0.9999890065		
Combined Adjust. Factor	0.9999266942		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 207 AND STATE HIGHWAY 61, NORTH OF MARION, GO NORTH ON HIGHWAY 61 0.9 MILES TO THE MARK ON THE RIGHT, EAST 17.0' OF THE C/L OF THE HIGHWAY AND 154.2' NORTH OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 470025A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 AROC Ref Mon # 3 ARWY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;"> ELEV. BASED ON DIGITAL LEVELS FROM GPS #470025, WHOSE ELEVATION IS STATIC GPS DERIVED </td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM GPS #470025, WHOSE ELEVATION IS STATIC GPS DERIVED
Comments			
ELEV. BASED ON DIGITAL LEVELS FROM GPS #470025, WHOSE ELEVATION IS STATIC GPS DERIVED			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480001	Date Monumented 1/19/1995	Monumented By AHTD	County MONROE	Route 79	Job Number: 110123
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	621,436.4840	
Easting (M)	456,699.4650	
Elevation (M)*	65.621	
Northing (SFT)	2,038,829.5313	
Easting (SFT)	1,498,354.8281	
Elevation (SFT)*	215.292	

Convergence Angle	0	20	46.3793748
Scale Factor	0.999978254		
Elevation Adjust. Factor	0.9999897020		
Combined Adjust. Factor	0.9999679563		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	226	16.20	53.1
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	ROE
Ref Mon # 3	NONE

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480001A	Date Monumented 1/19/1995	Monumented By AHTD	County MONROE	Route 79	Job Number: 110123
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 621,891.5620		Latitude 34 39 56.3226876
Easting (M) 457,209.5630		Longitude 91 22 32.9496168
Elevation (M)* 61.183		Ellipsoid Height (M): 33.731
Northing (SFT) 2,040,322.5663		Geoid Height (M): -27.452
Easting (SFT) 1,500,028.3746		
Elevation (SFT)* 200.731		

Convergence Angle	0	20	57.6531723
Scale Factor	0.999979034		
Elevation Adjust. Factor	0.9999903985		
Combined Adjust. Factor	0.9999694327		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	12" ELM TREE	201		22.00	72.2
MK # 2	18" SWEET GUM	60		25.50	83.7
MK # 3	NONE				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	
Ref Mon # 2 ROE	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480002	Date Monumented 1/19/1995	Monumented By AHTD	County MONROE	Route 79	Job Number: 110123
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	625,065.3529	
Easting (M)	465,123.6430	
Elevation (M)*	53.154	
Northing (SFT)	2,050,735.2453	
Easting (SFT)	1,525,993.1521	
Elevation (SFT)*	174.389	

Convergence Angle	0	23	52.1096775
Scale Factor	0.999984563		
Elevation Adjust. Factor	0.9999916585		
Combined Adjust. Factor	0.9999762216		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS VALVE	50	2.80	9.2
MK # 2	END OF 24" METAL PIPE	100	21.70	71.2
MK # 3	3" STEEL POST	170	1.40	4.6

Area Reference Monuments (used for Processing) Ref Mon # 1 BRINKLEYPORT Ref Mon # 2 ROE Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 41 37.6421604
Longitude	91 17 21.2479764
Ellipsoid Height (M):	25.665
Geoid Height (M):	-27.489

Location Description
FROM THE JCT. OF HWY. 79 AND HWY. 79B ON THE SOUTHEAST SIDE OF CLARENDON, GO NORTH ON HWY. 79 FOR 0.805 KM (0.50 MILES) TO THE STATION ON THE LEFT. THE STATION IS 22.4 METERS NORTH OF THE CENTERLINE OF HWY. 79, 28.7 METERS WEST OF THE CENTER OF A GRAVEL ROAD, 2.6 METERS EAST OF THE EDGE OF A DRAINAGE DITCH AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "480002" SET ON TOPOF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

AZ Mark Station	480002A
Geodetic Azimuth	94 11 44.5453
Grid Azimuth	93 47 52.5639

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480002A	Date Monumented 1/19/1995	Monumented By AHTD	County MONROE	Route 79	Job Number: 110123
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	625,019.6960	
Easting (M)	465,811.4250	
Elevation (M)*	55.471	
Northing (SFT)	2,050,585.4526	
Easting (SFT)	1,528,249.6502	
Elevation (SFT)*	181.991	

Convergence Angle	0	24	7.2268972
Scale Factor	0.999984472		
Elevation Adjust. Factor	0.9999912949		
Combined Adjust. Factor	0.9999757670		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TELEPHONE POLE	90	16.70	54.8	480002
MK # 2	POWER POLE	260	26.60	87.3	274 11 59.9190
MK # 3	NONE				273 47 52.5639

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	
Ref Mon # 2 ROE	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480003	Date Monumented 12/11/2000	Monumented By AHTD	County MONROE	Route 49	Job Number: 110385
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	31,550.2221	
Easting (M)	485,872.5998	
Elevation (M)*	55.335	
Northing (SFT)	103,511.0203	
Easting (SFT)	1,594,067.0212	
Elevation (SFT)*	181.545	

Convergence Angle	0	32	41.2739884
Scale Factor	1.000078095		
Elevation Adjust. Factor	0.9999913162		
Combined Adjust. Factor	1.0000694105		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 12.38 KM (7.69 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.60 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 49, 5.00 METERS SOUTHEAST OF THE CENTER OF A FIELD ENTRANCE AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480003 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 590.013 METERS.</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				AZ Mark Station	480003A
MK # 2	NONE				Geodetic Azimuth	140 12 55.64848
MK # 3	NONE				Grid Azimuth	139 40 14.27174

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMYPORT	<p>ELEVATION BY 3 WIRE FROM NGS POINT T 170</p>
Ref Mon # 2 BRINKLEYPOR	
Ref Mon # 3 H 349	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480003A	Date Monumented 12/11/2000	Monumented By AHTD	County MONROE	Route 49	Job Number: 110385
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	31,100.4042	
Easting (M)	486,254.4679	
Elevation (M)*	54.923	
Northing (SFT)	102,035.2428	
Easting (SFT)	1,595,319.8668	
Elevation (SFT)*	180.193	

Convergence Angle	0	32	49.8969654
Scale Factor	1.000079292		
Elevation Adjust. Factor	0.9999913809		
Combined Adjust. Factor	1.0000706722		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST END CONCRETE HEADWALL	142	26.60	87.3
MK # 2	NORHWEST END OF CMP	71	6.20	20.3
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 ALMYPORT Ref Mon # 2 BRINKLEYPOR Ref Mon # 3 H 349	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3 WIRE FROM NGS POINT T 170</td> </tr> </table>	Comments	ELEVATION BY 3 WIRE FROM NGS POINT T 170
Comments			
ELEVATION BY 3 WIRE FROM NGS POINT T 170			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 13.10 KM (8.14 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.00 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 49, 6.50 METERS NORTHWEST OF THE CENTER OF A FIELD ENTRANCE AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480003A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 590.013 METERS.

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 36 35.7998796
Longitude	91 3 34.7105736
Ellipsoid Height (M):	28.314
Geoid Height (M):	-26.688

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480004	Date Monumented 12/11/2000	Monumented By AHTD	County MONROE	Route 49	Job Number: 110385
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	35,411.4471	
Easting (M)	483,763.4987	
Elevation (M)*	55.313	
Northing (SFT)	116,179.0560	
Easting (SFT)	1,587,147.4120	
Elevation (SFT)*	181.473	

Convergence Angle	0	31	53.9245668
Scale Factor	1.000068047		
Elevation Adjust. Factor	0.9999913197		
Combined Adjust. Factor	1.0000593661		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 7.71 KM (4.79 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.00 METERS EAST-NORTHEAST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480004 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 512.681 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input type="text" value="ALMYPORT"/></p> <p>Ref Mon # 2 <input type="text" value="BRINKLEYPORT"/></p> <p>Ref Mon # 3 <input type="text" value="H 349"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; padding: 5px; min-height: 100px;"> <p>ELEVATION BY 3 WIRE FROM NGS POINT T 170</p> </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480004A	Date Monumented 12/11/2000	Monumented By AHTD	County MONROE	Route 49	Job Number: 110385
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	34,996.9428	
Easting (M)	484,065.2568	
Elevation (M)*	55.398	
Northing (SFT)	114,819.1365	
Easting (SFT)	1,588,137.4300	
Elevation (SFT)*	181.752	

Convergence Angle	0	32	0.7308929
Scale Factor	1.000069110		
Elevation Adjust. Factor	0.9999913063		
Combined Adjust. Factor	1.0000604157		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 8.10 KM (5.08 MI) TO THE STATION ON THE RIGHT. THE STATION IS ABOUT 90.00 METERS SOUTHEAST OF THE EXTENDED CENTER OF STATE HIGHWAY 362, 9.40 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480004A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 512.681 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input type="text" value="ALMYPORT"/></p> <p>Ref Mon # 2 <input type="text" value="BRINKLEYPOR"/></p> <p>Ref Mon # 3 <input type="text" value="H 349"/></p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BY 3 WIRE FROM NGS POINT T 170</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480005	Date Monumented 12/11/2000	Monumented By AHTD	County MONROE	Route 49	Job Number: 110385,110672
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 38,558.3913		Latitude 34 40 39.6506928
Easting (M) 480,053.0010		Longitude 91 7 35.4940644
Elevation (M)* 56.074		Ellipsoid Height (M): 29.470
		Geoid Height (M): -26.648

Northing (SFT) 126,503.6555		
Easting (SFT) 1,574,973.8874		
Elevation (SFT)* 183.969		

Convergence Angle 0 30 29.7852620		
Scale Factor 1.000060086		
Elevation Adjust. Factor 0.9999912002		
Combined Adjust. Factor 1.0000512857		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 2.82 KM (1.75 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.00 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "480005 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 695.889 METERS.

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	EAST END CMP	176	4.40	14.4	480005A
MK # 2	WEST END CMP	279	5.30	17.4	123 47 04.19732
MK # 3	NONE				123 16 34.26488

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: ALMYPORT</p> <p>Ref Mon # 2: BRINKLEYPORT</p> <p>Ref Mon # 3: H 349</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BY 3 WIRE FROM NGS POINT T 170</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480005A	Date Monumented 12/11/2000	Monumented By AHTD	County MONROE	Route 49	Job Number: 110385
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	38,176.5526	
Easting (M)	480,634.8217	
Elevation (M)*	55.120	
Northing (SFT)	125,250.9063	
Easting (SFT)	1,576,882.7442	
Elevation (SFT)*	180.840	

Convergence Angle	0	30	43.0053522
Scale Factor	1.000061041		
Elevation Adjust. Factor	0.9999913499		
Combined Adjust. Factor	1.0000523904		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMYPORT	ELEVATION BY 3 WIRE FROM NGS POINT T 170
Ref Mon # 2 BRINKLEYPOR	
Ref Mon # 3 H 349	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480006	Date Monumented 12/11/2000	Monumented By AHTD	County MONROE	Route 49	Job Number: 110385,110672
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	42,506.4441	
Easting (M)	477,995.0978	
Elevation (M)*	55.700	
Northing (SFT)	139,456.5587	
Easting (SFT)	1,568,222.2500	
Elevation (SFT)*	182.742	

Convergence Angle	0	29	43.5300659
Scale Factor	1.000050504		
Elevation Adjust. Factor	0.9999912589		
Combined Adjust. Factor	1.0000417625		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE GATE POST	6	9.50	31.2
MK # 2	SOUTH END CMP	23	11.10	36.4
MK # 3	NORTH END CONCRETE HEADWALL	152	12.00	39.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMYPORT	ELEVATION BY 3 WIRE FROM NGS POINT T 170
Ref Mon # 2 BRINKLEYPOR	
Ref Mon # 3 H 349	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480006A	Date Monumented 12/11/2000	Monumented By AHTD	County MONROE	Route 49	Job Number: 110385
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 41,772.5318		Latitude 34 42 24.5304072
Easting (M) 477,990.8977		Longitude 91 8 55.3985088
Elevation (M)* 55.725		Ellipsoid Height (M): 29.102
		Geoid Height (M): -26.652

Northing (SFT) 137,048.7147		
Easting (SFT) 1,568,208.4702		
Elevation (SFT)* 182.824		

Convergence Angle 0 29 43.2889355		
Scale Factor 1.000052248		
Elevation Adjust. Factor 0.9999912550		
Combined Adjust. Factor 1.0000435026		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 1.06 KM (0.66 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.10 METERS WEST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480006A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 733.888 METERS.

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station 480006
MK # 2	NONE				Geodetic Azimuth 0 49 23.709132
MK # 3	NONE				Grid Azimuth 0 19 40.417610

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ALMYPORT</p> <p>Ref Mon # 2 BRINKLEYPORT</p> <p>Ref Mon # 3 H 349</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BY 3 WIRE FROM NGS POINT T 170</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480007	Date Monumented 12/11/2000	Monumented By AHTD	County MONROE	Route 49	Job Number: 110646
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	47,591.8809	0.0020			
Easting (M)	477,360.7028	0.0020			
Elevation (M)*	60.999				

Northing (SFT)	156,141.0293				
Easting (SFT)	1,566,140.9058				
Elevation (SFT)*	200.127				

Convergence Angle	0	29	30.0218330		
Scale Factor	1.000038767				
Elevation Adjust. Factor	0.9999904274				
Combined Adjust. Factor	1.0000291940				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (1997)				
Latitude	34	45	33.5366028		
Longitude	91	9	18.1994256		
Ellipsoid Height:	34.342				
Grid Northing (Meters)	47,591.8988				
Grid Easting (Meters)	477,360.6707				

Location Description					
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 7.05 KM (4.38 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.60 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 49, 11.00 METERS NORTHWEST OF THE CENTER OF A PASTURE ENTRANCE AND 1.54 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480007 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 491.907 METERS.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input type="text" value="ALMYPORT"/></p> <p>Ref Mon # 2 <input type="text" value="BRINKLEYPORT"/></p> <p>Ref Mon # 3 <input type="text" value="H 349"/></p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BY 3 WIRE FROM AHTD GPS MON 480007A and 30DWB 1970 during job 110615 by crew s5102 in February 2016.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480007A	Date Monumented 12/11/2000	Monumented By AHTD	County MONROE	Route 49	Job Number: 110385, 110646, 110616
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 47,202.6312		Latitude 34 45 20.8214892
Easting (M) 477,661.4399		Longitude 91 9 6.5056932
Elevation (M)* 60.237		Ellipsoid Height (M): 33.578
		Geoid Height (M): -26.669

Northing (SFT) 154,863.9659		
Easting (SFT) 1,567,127.5741		
Elevation (SFT)* 197.628		

Convergence Angle 0 29 36.8256746		
Scale Factor 1.000039648		
Elevation Adjust. Factor 0.9999905469		
Combined Adjust. Factor 1.0000301946		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

 TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 6.53 KM (4.06 MI) TO THE STATION ON THE RIGHT. THE STATION IS 23.90 METERS NORTHWEST OF THE CENTER OF A FIELD ENTRANCE, 8.90 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480007A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 491.907 METERS.

Location Reference Marks

Description	Azimuth	Distance	
		Meters Feet	
MK # 1 NONE			AZ Mark Station 480007
MK # 2 NONE			Geodetic Azimuth 322 48 06.96028
MK # 3 NONE			Grid Azimuth 322 18 30.20361

**Area Reference Monuments
(used for Processing)**

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPOR
Ref Mon # 3	H 349

Comments
 ELEVATION BY 3 WIRE FROM NGS POINT T 170

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480008	Date Monumented 12/11/2000	Monumented By AHTD	County MONROE	Route 49	Job Number: 110385,110646
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 51,066.7887		Latitude 34 47 27.0918816
Easting (M) 474,434.6135		Longitude 91 11 12.1173252
Elevation (M)* 57.499		Ellipsoid Height (M): 30.815
		Geoid Height (M): -26.707

Northing (SFT) 167,541.6226		
Easting (SFT) 1,556,540.8945		
Elevation (SFT)* 188.645		

Convergence Angle 0 28 23.7323755		
Scale Factor 1.000031066		
Elevation Adjust. Factor 0.9999909766		
Combined Adjust. Factor 1.0000220423		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 70, LOCATED ON THE SOUTH SIDE OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 9.25 KM (5.76 MI) TO THE STATION ON THE RIGHT. 11.40 METERS WEST OF THE CENTER OF U.S. HIGHWAY 49, 6.90 METERS NORTH OF THE EXTENDED CENTER LINE OF A FIELD ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480008 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 450.806 METERS.				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WELL HEAD	183	19.90	65.3
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMYPORT	ELEVATION BY 3 WIRE FROM NGS POINT T 170
Ref Mon # 2 BRINKLEYPORT	
Ref Mon # 3 H 349	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480008A	Date Monumented 12/11/2000	Monumented By AHTD	County MONROE	Route 49	Job Number: 110385, 110646, 110616
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	50,633.7965 0.0020
Easting (M)	474,560.2442 0.0020
Elevation (M)*	58.499

Northing (SFT)	166,121.0474
Easting (SFT)	1,556,953.0678
Elevation (SFT)*	191.925

Convergence Angle	0	28	26.5258090
Scale Factor	1.000032005		
Elevation Adjust. Factor	0.9999908197		
Combined Adjust. Factor	1.0000228244		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)
Latitude	34 47 13.0087860
Longitude	91 11 7.3181256
Ellipsoid Height:	31.816
Grid Northing (Meters)	50,633.8173
Grid Easting (Meters)	474,560.2098

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 70, LOCATED ON THE SOUTH SIDE OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 9.74 KM (6.05 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.70 METERS WEST-SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS EAST-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480008A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 450.806 METERS.

Location Reference Marks

Description	Azimuth	Distance	
		Meters Feet	
MK # 1 NONE			AZ Mark Station 480008
MK # 2 NONE			Geodetic Azimuth 344 17 51.50451
MK # 3 NONE			Grid Azimuth 343 49 25.00673

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ALMYPORT</p> <p>Ref Mon # 2 BRINKLEYPORT</p> <p>Ref Mon # 3 H 349</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BY 3 WIRE FROM NGS POINT T 170</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480009	Date Monumented 12/11/2000	Monumented By AHTD	County MONROE	Route 49	Job Number: 110385
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	55,688.9598	
Easting (M)	474,111.5462	
Elevation (M)*	58.271	
Northing (SFT)	182,706.1956	
Easting (SFT)	1,555,480.9645	
Elevation (SFT)*	191.177	

Convergence Angle	0	28	17.2085382
Scale Factor	1.000021346		
Elevation Adjust. Factor	0.9999908555		
Combined Adjust. Factor	1.0000122013		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END CONCRETE HEADWALL	349	23.10	75.8
MK # 2	POWER POLE	154	32.40	106.3
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 ALMYPORT Ref Mon # 2 BRINKLEYPOR Ref Mon # 3 H 349	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3 WIRE FROM NGS POINT T 170</td> </tr> </table>	Comments	ELEVATION BY 3 WIRE FROM NGS POINT T 170
Comments			
ELEVATION BY 3 WIRE FROM NGS POINT T 170			

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 49 57.1624932
Longitude	91 11 23.3286108
Ellipsoid Height (M):	31.532
Geoid Height (M):	-26.739

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 70, LOCATED ON THE SOUTH SIDE OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 4.64 KM (2.88 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.40 METERS EAST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480009 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK T 170. THE SHOT DISTANCE IS 529.114 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480009A	Date Monumented 12/11/2000	Monumented By AHTD	County MONROE	Route 49	Job Number: 110385
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	55,159.8787	
Easting (M)	474,105.3838	
Elevation (M)*	56.574	
Northing (SFT)	180,970.3687	
Easting (SFT)	1,555,460.7467	
Elevation (SFT)*	185.610	

Convergence Angle	0	28	16.9677408
Scale Factor	1.000022431		
Elevation Adjust. Factor	0.9999911218		
Combined Adjust. Factor	1.0000135526		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	165	15.25	50.0
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="ALMYPORT"/>	ELEVATION BY 3 WIRE FROM NGS POINT T 170
Ref Mon # 2 <input type="text" value="BRINKLEYPOR"/>	
Ref Mon # 3 <input type="text" value="H 349"/>	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	<input type="text" value="34"/> <input type="text" value="49"/> <input type="text" value="39.9960336"/>
Longitude	<input type="text" value="91"/> <input type="text" value="11"/> <input type="text" value="23.7424236"/>
Ellipsoid Height (M):	<input type="text" value="29.839"/> <input type="text"/>
Geoid Height (M):	<input type="text" value="-26.735"/> <input type="text"/>

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 70, LOCATED ON THE SOUTH SIDE OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 5.15 KM (3.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.10 METERS NORTH OF THE CENTER OF SKINNER ROAD, 15.00 METERS EAST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480009A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK T 170. THE SHOT DISTANCE IS 529.114 METERS.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480010	Date Monumented 12/11/2000	Monumented By AHTD	County MONROE	Route 49	Job Number: 110385
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	59,525.2505	
Easting (M)	472,769.6383	
Elevation (M)*	57.114	
Northing (SFT)	195,292.4260	
Easting (SFT)	1,551,078.3883	
Elevation (SFT)*	187.382	

Convergence Angle	0	27	47.1893039
Scale Factor	1.000013658		
Elevation Adjust. Factor	0.9999910370		
Combined Adjust. Factor	1.0000046949		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END CONCRETE HEADWALL	49	11.15	36.6
MK # 2	GUY POLE	99	25.65	84.2
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 ALMYPORT Ref Mon # 2 BRINKLEYPOR Ref Mon # 3 H 349	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3 WIRE FROM NGS POINT T 170</td> </tr> </table>	Comments	ELEVATION BY 3 WIRE FROM NGS POINT T 170
Comments			
ELEVATION BY 3 WIRE FROM NGS POINT T 170			

Location Description
THE STATION IS LOCATED ON THE SOUTH SIDE OF BRINKLEY AT THE JUNCTION OF U.S. HIGHWAY 70 AND U.S. HIGHWAY 49. THE STATION IS 37.68 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 70, 25.76 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480010 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK T 170. THE SHOT DISTANCE IS 505.508 METERS.

AZ Mark Station	480010A
Geodetic Azimuth	114 43 55.37939
Grid Azimuth	114 16 08.09760

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480010A	Date Monumented 12/11/2000	Monumented By AHTD	County MONROE	Route 49	Job Number: 110385
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	59,317.4748	
Easting (M)	473,230.4769	
Elevation (M)*	66.468	
Northing (SFT)	194,610.7486	
Easting (SFT)	1,552,590.3230	
Elevation (SFT)*	218.070	

Convergence Angle	0	27	57.7081669
Scale Factor	1.000014072		
Elevation Adjust. Factor	0.9999895691		
Combined Adjust. Factor	1.0000036410		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 70, LOCATED ON THE SOUTH SIDE OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 0.55 KM (0.34 MI) TO THE SOUTHEAST END OF A BRIDGE AND THE STATION ON THE RIGHT. THE STATION IS 10.10 METERS WEST OF THE CENTER OF A HEADWALL, 8.50 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 49, 2.50 METERS SOUTHWEST OF THE SOUTHWEST CORNER OF A BRIDGE AND 2.48 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480010A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK T 170. THE SHOT DISTANCE IS 505.508 METERS.</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input type="text" value="ALMYPORT"/></p> <p>Ref Mon # 2 <input type="text" value="BRINKLEYPOR"/></p> <p>Ref Mon # 3 <input type="text" value="H 349"/></p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BY 3 WIRE FROM NGS POINT T 170</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480011	Date Monumented 12/11/2000	Monumented By AHTD	County MONROE	Route 70	Job Number: 110389,110664
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	641,248.7894 0.0020
Easting (M)	467,403.8587 0.0020
Elevation (M)*	54.321 0.0000
Northing (SFT)	2,103,830.4032
Easting (SFT)	1,533,474.1598
Elevation (SFT)*	178.217

Convergence Angle	0 24 44.8131617
Scale Factor	1.000017066
Elevation Adjust. Factor	0.9999914754
Combined Adjust. Factor	1.0000085413

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	50	22.2757368
Longitude	91	15	47.0839680
Ellipsoid Height:	27.544		
Grid Northing (Meters)	641,248.8045		
Grid Easting (Meters)	467,403.8238		

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO WEST ON U.S. HIGHWAY 70 FOR 1.77 KM (1.10 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.50 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 70, 8.80 METERS WEST OF THE CENTER OF A PAVED FIELD ENTRANCE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480011 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5111 FROM U.S.C.&G.S. BENCH MARK P 170. THE SHOT DISTANCE IS 434.084 METERS.</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARLR</p> <p>Ref Mon # 2 ARWY</p> <p>Ref Mon # 3 H MSB5</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5111 FROM U.S.C.&G.S. BENCH MARK P 170. *****Updated in April 2018 by C.L.S. During job 110664, constraining elevation on Q170.*****</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480011A	Date Monumented 12/11/2000	Monumented By AHTD	County MONROE	Route 70	Job Number: 110389,110664
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	641,250.9655 0.0020
Easting (M)	466,969.7753 0.0020
Elevation (M)*	52.847 0.0034
Northing (SFT)	2,103,837.5426
Easting (SFT)	1,532,050.0045
Elevation (SFT)*	173.381

Convergence Angle	0 24 35.2515784
Scale Factor	1.000017078
Elevation Adjust. Factor	0.9999917067
Combined Adjust. Factor	1.0000087846

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	50	22.4469348
Longitude	91	16	4.1676672
Ellipsoid Height:	26.032		
Grid Northing (Meters)	641,250.9656		
Grid Easting (Meters)	466,969.7403		

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARWY Ref Mon # 3 MSB5	ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5111 FROM U.S.C.&G.S. BENCH MARK P 170. *****Updated in April 2018 by C.L.S. During job 110664, constraining elevation on Q170.*****

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	34 50 22.4469240
Longitude	91 16 4.1662920
Ellipsoid Height (M):	25.952 0.0060
Geoid Height (M):	-26.901

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO WEST ON U.S. HIGHWAY 70 FOR 2.20 KM (1.37 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.10 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 70 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480011A 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5111 FROM U.S.C.&G.S. BENCH MARK P 170. THE SHOT DISTANCE IS 434.084 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480012	Date Monumented 12/15/2000	Monumented By AHTD	County MONROE	Route 146	Job Number: 110391
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	611,755.2039	
Easting (M)	479,610.5710	
Elevation (M)*		
Northing (SFT)	2,007,066.8648	
Easting (SFT)	1,573,522.3484	
Elevation (SFT)*		

Convergence Angle	0	29	8.1917066
Scale Factor	0.999962511		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station
MK # 2	NONE				Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 ALMYPORT AZ MK Ref Mon # 2 BRINKLEYPOR Ref Mon # 3 540006	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 17 AND STATE HIGHWAY 146 LOCATED ABOUT 16.093 KM (10 MI) SOUTHEAST OF CLARENDON, GO EAST ON STATE HIGHWAY 146 FOR 5.198 KM (3.23 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.70 METERS EAST OF THE CENTER OF STATE HIGHWAY 146 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "480012 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 546.844 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480012A	Date Monumented 12/15/2000	Monumented By AHTD	County MONROE	Route 146	Job Number: 110391
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	611,929.3559	
Easting (M)	479,092.2250	
Elevation (M)*		
Northing (SFT)	2,007,638.2285	
Easting (SFT)	1,571,821.7415	
Elevation (SFT)*		

Convergence Angle	0	28	56.8419378
Scale Factor	0.999962775		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	90	30.30	99.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ALMYPORT AZ MK
Ref Mon # 2	BRINKLEYPOR
Ref Mon # 3	540006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480013	Date Monumented 12/15/2000	Monumented By AHTD	County MONROE	Route 146	Job Number: 110391
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	608,172.9299	
Easting (M)	481,835.2220	
Elevation (M)*		
Northing (SFT)	1,995,314.0208	
Easting (SFT)	1,580,821.0575	
Elevation (SFT)*		

Convergence Angle	0	29	56.3559619
Scale Factor	0.999957355		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	130	34.30	112.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ALMYPORT AZ MK
Ref Mon # 2	BRINKLEYPOR
Ref Mon # 3	540006

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 17 AND STATE HIGHWAY 146 LOCATED ABOUT 16.093 KM (10 MI) SOUTHEAST OF CLARENDON, GO EAST ON STATE HIGHWAY 146 FOR 10.187 KM (6.33 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.40 METERS NORTH OF THE CENTER OF STATE HIGHWAY 146 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "480013 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 717.408 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480013A	Date Monumented 12/15/2000	Monumented By AHTD	County MONROE	Route 146	Job Number: 110391
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	608,154.1549	
Easting (M)	482,552.3510	
Elevation (M)*		
Northing (SFT)	1,995,252.4232	
Easting (SFT)	1,583,173.8382	
Elevation (SFT)*		

Convergence Angle	0	30	12.0931541
Scale Factor	0.999957320		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	232	11.05	36.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ALMYPORT AZ MK
Ref Mon # 2	BRINKLEYPOR
Ref Mon # 3	540006

Comments

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 32 24.3949200
Longitude	91 6 2.3310576
Ellipsoid Height (M):	26.292
Geoid Height (M):	-26.708

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 17 AND STATE HIGHWAY 146 LOCATED ABOUT 16.093 KM (10 MI) SOUTHEAST OF CLARENDON, GO EAST ON STATE HIGHWAY 146 FOR 10.895 KM (6.77 MI) TO THE STATION ON THE RIGHT. THE STATION IS 5.60 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 146 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "480013A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 717.408 METERS.</p>

AZ Mark Station	480013
Geodetic Azimuth	272 00 11
Grid Azimuth	271 29 59

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480014	Date Monumented 12/15/2000	Monumented By AHTD	County MONROE	Route 146	Job Number: 110391
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	609,258.7009	
Easting (M)	485,768.8060	
Elevation (M)*		
Northing (SFT)	1,998,876.2545	
Easting (SFT)	1,593,726.4910	
Elevation (SFT)*		

Convergence Angle	0	31	22.9145075
Scale Factor	0.999958826		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END CORRIGATED METAL PIPE	275	7.30	24.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ALMYPORT AZ MK
Ref Mon # 2	BRINKLEYPOR
Ref Mon # 3	540006

Comments

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 32 59.3050092
Longitude	91 3 55.7944632
Ellipsoid Height (M):	26.977
Geoid Height (M):	-26.721

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 17 AND STATE HIGHWAY 146 LOCATED ABOUT 16.093 KM (10 MI) SOUTHEAST OF CLARENDON, GO EAST ON STATE HIGHWAY 146 FOR 14.79 KM (9.19 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.10 METERS NORTH OF THE CENTER OF STATE HIGHWAY 146 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A 50 mm CAP STAMPED " AHTD GPS 480014 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	480014A
Geodetic Azimuth	116 29 37
Grid Azimuth	115 58 14

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480014A	Date Monumented 12/15/2000	Monumented By AHTD	County MONROE	Route 146	Job Number: 110391
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	609,012.9119	
Easting (M)	486,273.4040	
Elevation (M)*		
Northing (SFT)	1,998,069.8618	
Easting (SFT)	1,595,381.9930	
Elevation (SFT)*		

Convergence Angle	0	31	33.9419691
Scale Factor	0.999958473		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END CORRIGATED METAL PIPE	101	10.60	34.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMYPORT AZ MK	
Ref Mon # 2 BRINKLEYPORT	
Ref Mon # 3 540006	

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 34 32 51.1786896

Longitude 91 3 36.0916848

Ellipsoid Height (M): 26.709

Geoid Height (M): -26.725

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 17 AND STATE HIGHWAY 146 LOCATED ABOUT 16.093 KM (10 MI) SOUTHEAST OF CLARENDON, GO EAST ON STATE HIGHWAY 146 FOR 15.337 KM (9.53 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.80 METERS NORTH OF THE CENTER OF STATE HIGHWAY 146 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A 50 mm CAP STAMPED " AHTD GPS 480014A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480015	Date Monumented 1/8/2003	Monumented By AHTD	County MONROE	Route I 40	Job Number: 110131,110478
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	64,176.2910	
Easting (M)	473,986.4410	
Elevation (M)*	69.938	
Northing (SFT)	210,551.7147	
Easting (SFT)	1,555,070.5152	
Elevation (SFT)*	229.456	

Convergence Angle	0	28	15.9417379
Scale Factor	1.000004865		
Elevation Adjust. Factor	0.9999890245		
Combined Adjust. Factor	0.9999938895		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SE CORNER OF WINGWALL ON WEST LANE BRIDGE	25	8.30	27.2
MK # 2	NE CORNER OF WINGWALL ON EAST LANE BRIDGE	160	6.59	21.6
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD LROC Ref Mon # 2 AHTD MON1 Ref Mon # 3 MEM2 CORS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3-WIRE BY S5103 FROM 1ST ORDER NGS MARK BRINKLEY RM 2 IN MAY 2005</td> </tr> </table>	Comments	ELEVATION BY 3-WIRE BY S5103 FROM 1ST ORDER NGS MARK BRINKLEY RM 2 IN MAY 2005
Comments			
ELEVATION BY 3-WIRE BY S5103 FROM 1ST ORDER NGS MARK BRINKLEY RM 2 IN MAY 2005			

Location Description
TO REACH THE STATION FROM I-40 EXIT 216 IN BRINKLEY, GO EAST ON I-40 FOR 0.70 MILES TO THE EAST END OF AN OVERPASS OVER THE ST. LOUIS SOUTHWESTERN RAILWAY AND THE STATION ON THE LEFT. THE STATION IS IN THE MEDIAN AT THE TOP OF THE BANK BETWEEN THE TWO BRIDGES OVER THE RAILROAD TRACK. THE STATION MARK IS A 64mm CAP STAMPED "480015 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	480015A
Geodetic Azimuth	86 19 20
Grid Azimuth	85 51 03

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480015A	Date Monumented 1/8/2003	Monumented By AHTD	County MONROE	Route I 40	Job Number: 110131,110478
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	64,215.4490	
Easting (M)	474,526.2520	
Elevation (M)*	58.828	
Northing (SFT)	210,680.1856	
Easting (SFT)	1,556,841.5451	
Elevation (SFT)*	193.004	

Convergence Angle	0	28	28.3223348
Scale Factor	1.000004802		
Elevation Adjust. Factor	0.9999907681		
Combined Adjust. Factor	0.9999955700		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION FROM I-40 EXIT 216 IN BRINKLEY, GO EAST ON I-40 FOR 1.00 MILES TO THE STATION ON THE LEFT IN THE MEDIAN. 8.00 METERS SOUTH OF THE EDGE OF THE ASPHALT OF THE WEST BOUND LANE, 7.85 METERS NORTH OF THE EDGE OF THE ASPHALT OF THE EAST BOUND LANE, 0.75 METERS FROM THE EDGE OF THE OPENING OF A DROP INLET AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "480015A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1					AZ Mark Station	480015
MK # 2					Geodetic Azimuth	266 19 32
MK # 3					Grid Azimuth	265 51 03

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LROC	ELEVATION BY 3-WIRE BY S5103 FROM 1ST ORDER NGS MARK BRINKLEY RM 2 IN MAY 2005
Ref Mon # 2 AHTD MON1	
Ref Mon # 3 MEM2 CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480016-1	Date Monumented 1/8/2003	Monumented By AHTD	County MONROE	Route 70	Job Number: NA
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Zone Arkansas South	Zone Code	Vertical Determined By: NONE
Horizontal Datum		Elevation Datum: NONE
Northing (M)	#Error	Geoid Datum:
Easting (M)	#Error	Latitude
Elevation (M)*		Longitude
Northing (SFT)	#Type!	Ellipsoid Height (M):
Easting (SFT)	#Type!	Geoid Height (M):
Elevation (SFT)*		

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			
Combined Adjust. Factor			#Type!

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHAIN LINK FENCE CORNER	180	2.70	8.9
MK # 2	POWER POLE	270	34.50	113.2
MK # 3	FLAG POLE	205	6.30	20.7

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	Comments <div style="border: 1px solid black; height: 150px; margin-top: 10px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480017 1	Date Monumented 4/26/2011	Monumented By AHTD	County Monroe	Route cNeal La	Job Number: 110544
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	648,807.4797	0.0097			
Easting (M)	480,334.4888	0.0069			
Elevation (M)*					
Northing (SFT)	2,128,629.2063				
Easting (SFT)	1,575,897.4020				
Elevation (SFT)*					

Convergence Angle	0	29	31.0737433
Scale Factor	1.000034247		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PP	20	11.58	38.0
MK # 2	36" pin oak	342	22.25	73.0
MK # 3	PP with transformer	315	27.13	89.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	Geoid96
Latitude	34 54 24.2329387
Longitude	91 7 15.6204866
Ellipsoid Height (M):	31.712 0.0151
Geoid Height (M):	-26.759 0.3141

Location Description
<p>Starting at the junction of US 70 and state highway78 in Wheatly go west on US-70 .8 miles then turn left on McNeal lane and go south .1 miles to the station on the left. The Station is a standard alum. cap stamped(480017 2011) and is set on a 4 foot 5/8" rebar. It is 2 foot west of a witness post and 35 foot east of the CL of McNeal lane.</p> <p>Lat.34.5424 Lon.091.0716</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480017A 1	Date Monumented 4/26/2011	Monumented By AHTD	County Monroe	Route cNeal La	Job Number: 110544
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	648,494.7937	0.0094	
Easting (M)	480,324.9422	0.0069	
Elevation (M)*			
Northing (SFT)	2,127,603.3357		
Easting (SFT)	1,575,866.0812		
Elevation (SFT)*			

Convergence Angle	0	29	30.8041052
Scale Factor	1.000033499		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	combo. pole	197	5.49	18.0	
MK # 2	South East corner of a 1 story brick house	303	13.70	44.9	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480018	Date Monumented 12/14/2015	Monumented By AHTD	County MONROE	Route 79	Job Number: Clarendon River Bridge Scan
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	622,724.1746	0.0020			
Easting (M)	460,276.7387	0.0020			
Elevation (M)*					
Northing (SFT)	2,043,054.2295				
Easting (SFT)	1,510,091.2669				
Elevation (SFT)*					

Convergence Angle	0	22	5.1955035		
Scale Factor	0.999980451				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND STATE HIGHWAY 33N, SOUTH SOUTHWEST OF CLARENDON, GO NORTH ON HIGHWAY 79 3.1 MILES TO THE MARK ON THE LEFT, NORTH 28 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 1.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 480018" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NORTHEAST CORNER OF BRIDGE		266	157.50	516.7
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARBT, ARLR
Ref Mon # 2	ARWY
Ref Mon # 3	MSB6

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480018A	Date Monumented 12/14/2015	Monumented By AHTD	County MONROE	Route 79	Job Number: Clarendon River Bridge Scan
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	623,002.3348	0.0020			
Easting (M)	460,661.8245	0.0020			
Elevation (M)*					
Northing (SFT)	2,043,966.8268				
Easting (SFT)	1,511,354.6692				
Elevation (SFT)*					

Convergence Angle	0	22	13.7009942
Scale Factor	0.999980935		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF BRIDGE	62	115.50	378.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT, ARLR	
Ref Mon # 2 ARWY	
Ref Mon # 3 MSB6	

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	34 40 31.6652664
Longitude	91 20 17.0748852
Ellipsoid Height (M):	30.720 0.0070
Geoid Height (M):	-26.811 0.0070

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND STATE HIGHWAY 33N, SOUTH SOUTHWEST OF CLARENDON, GO NORTH ON HIGHWAY 79 3.4 MILES TO THE MARK ON THE RIGHT, SOUTH SOUTHEAST 2.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 480018A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

AZ Mark Station	480018
Geodetic Azimuth	
Grid Azimuth	

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480019	Date Monumented 12/14/2015	Monumented By AHTD	County MONROE	Route 79	Job Number: Clarendon River Bridge Scan
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	624,512.7369	0.0020			
Easting (M)	463,170.8054	0.0020			
Elevation (M)*					
Northing (SFT)	2,048,922.2043				
Easting (SFT)	1,519,586.2174				
Elevation (SFT)*					

Convergence Angle	0	23	9.0850370
Scale Factor	0.999983591		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST OF EAST END OF CONCRETE CLADDRAH	208	26.80	87.9
MK # 2	COMBINATION POLE	280	38.80	127.3
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARBT, ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARWY</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MSB6</td> </tr> </table>	Ref Mon # 1	ARBT, ARLR	Ref Mon # 2	ARWY	Ref Mon # 3	MSB6	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	ARBT, ARLR						
Ref Mon # 2	ARWY						
Ref Mon # 3	MSB6						

Vertical Determined By:

Elevation Datum:

Geoid Datum: Geoid 12A

Latitude 34 41 20.1424920

Longitude 91 18 38.1201516

Ellipsoid Height (M): 25.715 0.0070

Geoid Height (M): -26.813 0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND STATE HIGHWAY 79B, IN CLARENDON, GO SOUTH ON HIGHWAY 79 0.05 MILES TO THE MARK ON THE RIGHT, NORTH 10.6 FEET OF THE CENTERLINE OF EWAN STREET AND NORTH 38.7 FEET OF THE CENTERLINE OF STATE HIGHWAY 79. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 480019" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480019A	Date Monumented 12/14/2015	Monumented By AHTD	County MONROE	Route 79	Job Number: Clarendon River Bridge Scan
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	624,552.7680	0.0020	
Easting (M)	463,723.0340	0.0020	
Elevation (M)*			
Northing (SFT)	2,049,053.5397		
Easting (SFT)	1,521,397.9874		
Elevation (SFT)*			

Convergence Angle	0	23	21.2337930
Scale Factor	0.999983656		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT, ARLR	
Ref Mon # 2 ARWY	
Ref Mon # 3 MSB6	

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	Geoid 12A
Latitude	34 41 21.3203364
Longitude	91 18 16.4139552
Ellipsoid Height (M):	32.270 0.0070
Geoid Height (M):	-26.811 0.0070

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND STATE HIGHWAY 79B, ALSO KNOWN AS NORTH 9th STREET, IN CLARENDON, GO NORTH ON HIGHWAY 79 0.25 MILES TO THE MARK ON THE LEFT, NORTHEAST 24.4 FEET OF THE CENTERLINE OF STATE HIGHWAY 79. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 480019A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480020	Date Monumented	Monumented By CLS	County MONROE	Route 70	Job Number: 110664
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	641,830.4547	0.0020			
Easting (M)	469,690.5614	0.0030			
Elevation (M)*	57.451	0.0012			
Northing (SFT)	2,105,738.7501				
Easting (SFT)	1,540,976.4502				
Elevation (SFT)*	188.488				

Convergence Angle	0	25	35.2795799
Scale Factor	1.000018319		
Elevation Adjust. Factor	0.9999909841		
Combined Adjust. Factor	1.0000093029		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	North of EP HWY 70		1.31	4.3
MK # 2	EAST OF CL OF DRIVEWAY		45.72	150.0
MK # 3	SOUTH OF WITNESS POST		2.13	7.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.
Ref Mon # 2 ARWY	
Ref Mon # 3 MSB5	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480020A	Date Monumented 	Monumented By CLS	County MONROE	Route 70	Job Number: 110664
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	642,159.9091	0.0020	
Easting (M)	470,076.7736	0.0020	
Elevation (M)*	57.094	0.0010	
Northing (SFT)	2,106,819.6351		
Easting (SFT)	1,542,243.5481		
Elevation (SFT)*	187.315		

Convergence Angle	0	25	43.8418198
Scale Factor	1.000019047		
Elevation Adjust. Factor	0.9999910402		
Combined Adjust. Factor	1.0000100871		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH OF EP HWY 70		0.61	2.0
MK # 2	WEST OF DRIVE TO HOUSE #8330		10.67	35.0
MK # 3	SOUTH OF WITNESS POST		0.73	2.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARWY Ref Mon # 3 MSB5	Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO NE 0.67 MILES.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480021	Date Monumented 	Monumented By CLS	County MONROE	Route 70	Job Number: 110664
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	641,138.6703	0.0020			
Easting (M)	463,780.2894	0.0020			
Elevation (M)*	54.956	0.0047			
Northing (SFT)	2,103,469.1208				
Easting (SFT)	1,521,585.8328				
Elevation (SFT)*	180.301				

Convergence Angle	0	23	24.9769926
Scale Factor	1.000016879		
Elevation Adjust. Factor	0.9999913757		
Combined Adjust. Factor	1.0000082546		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH OF EP HWY 70		6.80	22.3
MK # 2	EAST OF FIELD ROAD		7.01	23.0
MK # 3	SOUTH OF WITNESS POST		2.07	6.8

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARWY Ref Mon # 3 MSB5	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.</td> </tr> </table>	Comments	Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.
Comments			
Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.			

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO WEST 3.41 MILES.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480021A	Date Monumented	Monumented By CLS	County MONROE	Route 70	Job Number: 110664
---------------------------	------------------------	-----------------------------	-------------------------	--------------------	------------------------------

Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	641,117.5089	0.0020			
Easting (M)	463,367.8311	0.0020			
Elevation (M)*	54.690	0.0047			
Northing (SFT)	2,103,399.6938				
Easting (SFT)	1,520,232.6259				
Elevation (SFT)*	179.427				

Convergence Angle	0	23	15.8883233
Scale Factor	1.000016838		
Elevation Adjust. Factor	0.9999914175		
Combined Adjust. Factor	1.0000082554		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH OF EP HWY 70		3.57	11.7
MK # 2	SOUTH OF WITNESS POST		1.92	6.3
MK # 3	WEST OF BRIDGE		182.88	600.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.
Ref Mon # 2 ARWY	
Ref Mon # 3 MSB5	

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO WEST 3.68 MILES.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480022	Date Monumented	Monumented By CLS	County MONROE	Route 70	Job Number: 110664
--------------------------	------------------------	-----------------------------	-------------------------	--------------------	------------------------------

Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	640,867.3576	0.0030			
Easting (M)	459,200.5315	0.0030			
Elevation (M)*	55.164	0.0060			
Northing (SFT)	2,102,578.9891				
Easting (SFT)	1,506,560.4104				
Elevation (SFT)*	180.985				

Convergence Angle	0	21	44.0573134
Scale Factor	1.000016346		
Elevation Adjust. Factor	0.9999913430		
Combined Adjust. Factor	1.0000076889		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	North of hwy 70 white line		6.71	22.0
MK # 2	East of CL of field road		4.27	14.0
MK # 3	Swof witness post		1.77	5.8

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARWY Ref Mon # 3 MSB5	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.</td> </tr> </table>	Comments	Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.
Comments			
Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO WEST 6.30 MILES.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480022A	Date Monumented 	Monumented By CLS	County MONROE	Route 70	Job Number: 110664
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	640,589.9125	0.0020			
Easting (M)	459,293.5972	0.0020			
Elevation (M)*	52.156	0.0003			
Northing (SFT)	2,101,668.7379				
Easting (SFT)	1,506,865.7435				
Elevation (SFT)*	171.115				

Convergence Angle	0	21	46.0685933
Scale Factor	1.000015735		
Elevation Adjust. Factor	0.9999918151		
Combined Adjust. Factor	1.0000075500		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	480022
			Meters	Feet		
MK # 1	W OF CL OF GR ROAD		3.66	12.0	Geodetic Azimuth	
MK # 2	SOUTH OF HWY ON BOAT LAUNCH ROAD		274.32	900.0	Grid Azimuth	
MK # 3	NORTH OF SHARP CURVE IN GR ROAD		39.62	130.0		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.
Ref Mon # 2 ARWY	
Ref Mon # 3 MSB5	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480023	Date Monumented 4/1/2019	Monumented By ARDOT	County MONROE	Route 39	Job Number: 110124
--------------------------	------------------------------------	-------------------------------	-------------------------	--------------------	------------------------------

Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	624,016.1252 0.0030
Easting (M)	482,094.3331 0.0030
Elevation (M)*	
Northing (SFT)	2,047,292.9041
Easting (SFT)	1,581,671.1578
Elevation (SFT)*	

Convergence Angle	0	30	5.0867753
Scale Factor	0.999982441		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PIPE FE CORNER	0	4.42	14.5
MK # 2	WATER WELL	109	20.94	68.7
MK # 3	CP W/3 GUYS & TRANSFORMER	85	21.03	69.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARJB Ref Mon # 3 MSGN	GNSS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARJB & ARLR.

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid12B

Latitude 34 40 59.2719888

Longitude 91 6 14.8493628

Ellipsoid Height (M): 28.777 0.0120

Geoid Height (M): -26.746 0.0120

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 49 AND STATE HIGHWAY 39, SOUTH OF MONROE, GO NORTH ON HIGHWAY 39 1.2 MILES TO THE MARK ON THE RIGHT, EAST OF THE C/L OF THE HIGHWAY 39.9'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 480023" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 480023A	Date Monumented 4/1/2019	Monumented By ARDOT	County MONROE	Route 39	Job Number: 110124
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	624,014.9962 0.0040
Easting (M)	481,676.8742 0.0030
Elevation (M)*	
Northing (SFT)	2,047,289.2000
Easting (SFT)	1,580,301.5448
Elevation (SFT)*	

Convergence Angle	0 29 55.9079559
Scale Factor	0.999982445
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	301	27.13	89.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARJB Ref Mon # 3 MSGN	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>GNSS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARJB & ARLR.</td> </tr> </table>	Comments	GNSS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARJB & ARLR.
Comments			
GNSS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARJB & ARLR.			

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	34 40 59.3536080
Longitude	91 6 31.2491700
Ellipsoid Height (M):	28.086 0.0140
Geoid Height (M):	-26.747 0.0140

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 49 AND STATE HIGHWAY 39, SOUTH OF MONROE, GO NORTH ON HIGHWAY 39 1.2 MILES TO MEACHAM ROAD AND TURN LEFT (WEST) AND GO 0.25 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF THE ROAD 18.0'. AND NORTH 34.9' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 480023A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490001	Date Monumented 4/30/2002	Monumented By AHTD	County MONTGOMERY	Route 270	Job Number: 080237
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	608,890.9919	
Easting (M)	265,870.3270	
Elevation (M)*		
Northing (SFT)	1,997,669.8626	
Easting (SFT)	872,276.2312	
Elevation (SFT)*		

Convergence Angle	0	49	4.3651618
Scale Factor	0.999957518		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	REINFORCED CONCRETE PIPE	297	5.40	17.7	
MK # 2	NORTHWEST CORNER METAL BUILDING	183	10.55	34.6	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ MK	
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 32 29.0071104
Longitude	93 27 40.7006532
Ellipsoid Height (M):	164.406
Geoid Height (M):	-28.033

Location Description
<p>TO REACH THE STATION FROM THE MONTGOMERY / GARLAND COUNTY LINE, GO WEST ON U.S. HIGHWAY 270 FOR 3.64 MILES TO THE STATION ON THE LEFT. THE STATION IS 11.50 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 9.80 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "490001 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	490001A
Geodetic Azimuth	91 01 34
Grid Azimuth	91 50 39

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490001A	Date Monumented 4/30/2002	Monumented By AHTD	County MONTGOMERY	Route 270	Job Number: 080237
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	608,880.1379	
Easting (M)	266,207.4320	
Elevation (M)*		
Northing (SFT)	1,997,634.2524	
Easting (SFT)	873,382.2165	
Elevation (SFT)*		

Convergence Angle	0	48	56.9627651
Scale Factor	0.999957509		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	241	6.60	21.7
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 MENAPORT AZ MK Ref Mon # 2 AP 1970 STA A3 HOT Ref Mon # 3 DE QUEEN CORS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">AZ Mark Station</th> <td style="text-align: center;">490001</td> </tr> <tr> <th style="text-align: center;">Geodetic Azimuth</th> <td style="text-align: center;">271 01 42</td> </tr> <tr> <th style="text-align: center;">Grid Azimuth</th> <td style="text-align: center;">271 50 39</td> </tr> </table> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>	AZ Mark Station	490001	Geodetic Azimuth	271 01 42	Grid Azimuth	271 50 39
AZ Mark Station	490001						
Geodetic Azimuth	271 01 42						
Grid Azimuth	271 50 39						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 32 28.8108600
Longitude	93 27 27.4747824
Ellipsoid Height (M):	169.062
Geoid Height (M):	-28.025

Location Description
TO REACH THE STATION FROM THE MONTGOMERY / GARLAND COUNTY LINE, GO WEST ON U.S. HIGHWAY 270 FOR 3.43 MILES TO THE STATION ON THE LEFT. THE STATION IS 13.60 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "490001A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490002	Date Monumented 4/30/2002	Monumented By AHTD	County MONTGOMERY	Route 270	Job Number: 080237
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	608,096.7129	
Easting (M)	260,596.2560	
Elevation (M)*		
Northing (SFT)	1,995,063.9656	
Easting (SFT)	854,972.8832	
Elevation (SFT)*		

Convergence Angle	0	50	59.8643258
Scale Factor	0.999956316		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORRIGATED METAL PIPE	48	13.90	45.6
MK # 2				
MK # 3				

AZ Mark Station	490002A
Geodetic Azimuth	234 38 40
Grid Azimuth	235 29 40

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ MK	
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490002A	Date Monumented 4/30/2002	Monumented By AHTD	County MONTGOMERY	Route 270	Job Number: 080237
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	607,843.6729	
Easting (M)	260,228.1580	
Elevation (M)*		
Northing (SFT)	1,994,233.7835	
Easting (SFT)	853,765.2150	
Elevation (SFT)*		

Convergence Angle	0	51	7.8601590
Scale Factor	0.999955963		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF CONCRETE PIPE	304	7.10	23.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 31 52.3528104
Longitude	93 31 21.3493080
Ellipsoid Height (M):	155.418
Geoid Height (M):	-28.123

Location Description
<p>TO REACH THE STATION FROM THE MONTGOMERY / GARLAND COUNTY LINE, GO WEST ON U.S. HIGHWAY 270 FOR 7.45 MILES TO THE STATION ON THE LEFT. THE STATION IS 20.80 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 1.00 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "490002A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	490002
Geodetic Azimuth	54 38 32
Grid Azimuth	55 29 40

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490003	Date Monumented 4/30/2002	Monumented By AHTD	County MONTGOMERY	Route 270	Job Number: 080237
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	608,619.6859	
Easting (M)	254,741.1370	
Elevation (M)*		
Northing (SFT)	1,996,779.7528	
Easting (SFT)	835,763.2136	
Elevation (SFT)*		

Convergence Angle	0	53	8.5395538
Scale Factor	0.999956913		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION FROM THE MONTGOMERY / GARLAND COUNTY LINE, GO WEST ON U.S. HIGHWAY 270 FOR 10.94 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.85 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270 AND 1.20 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "490003 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 MENAPORT AZ MK Ref Mon # 2 AP 1970 STA A3 HOT Ref Mon # 3 DE QUEEN CORS	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490003A	Date Monumented 4/30/2002	Monumented By AHTD	County MONTGOMERY	Route 270	Job Number: 080237
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	608,368.3809	
Easting (M)	255,245.5290	
Elevation (M)*		
Northing (SFT)	1,995,955.2630	
Easting (SFT)	837,418.0397	
Elevation (SFT)*		

Convergence Angle	0	52	57.3845620
Scale Factor	0.999956578		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	LIGHT POLE	287	19.80	65.0	490003
MK # 2	CORNER POST	193	2.15	7.1	295 36 05
MK # 3					296 29 03

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ MK	
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490004	Date Monumented 4/30/2002	Monumented By AHTD	County MONTGOMERY	Route 270	Job Number: 080237
--------------------------	-------------------------------------	------------------------------	-----------------------------	---------------------	------------------------------

Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	610,972.7190				
Easting (M)	250,187.0270				
Elevation (M)*	202.086				
Northing (SFT)	2,004,499.6623				
Easting (SFT)	820,821.9377				
Elevation (SFT)*	663.010				

Convergence Angle	0	54	49.3125613
Scale Factor	0.999960124		
Elevation Adjust. Factor	0.9999682871		
Combined Adjust. Factor	0.9999284124		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER RED BRICK BUILDIN	168	10.05	33.0
MK # 2	METAL LIGHT POLE	211	10.20	33.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ MK	
Ref Mon # 2 AP 1970 STA A3 HOT	
Ref Mon # 3 DE QUEEN CORS	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 33 28.8680292
Longitude	93 37 57.0185724
Ellipsoid Height (M):	173.639
Geoid Height (M):	-28.447

Location Description
<p>THIS STATION IS LOCATED AT THE MONTGOMERY COUNTY COURT HOUSE IN MOUNT IDA. THE STATION IS 15.00 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270, 2.50 METERS SOUTH OF THE BACK OF A CONCRETE CURB, 2.40 METERS WEST OF THE BACK OF A CONCRETE CURB, 1.80 METERS EAST OF THE BACK OF A CONCRETE CURB, AND THIS STATION HAS NO WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "490004 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS RUN BY CREW S5102 FROM USC&GS BM E 24 PID EJ1473.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490004A	Date Monumented 4/30/2002	Monumented By AHTD	County MONTGOMERY	Route 270	Job Number: 080237
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	611,284.3809	
Easting (M)	249,795.3890	
Elevation (M)*		
Northing (SFT)	2,005,522.1730	
Easting (SFT)	819,537.0387	
Elevation (SFT)*		

Convergence Angle	0	54	58.0193552
Scale Factor	0.999960563		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN METAL GUARD RAIL POS	129	9.60	31.5
MK # 2	PUNCH MARK IN METAL GUARD RAIL POS	144	4.15	13.6
MK # 3	PUNCH MARK IN METAL GUARD RAIL POS	212	1.65	5.4

Area Reference Monuments (used for Processing) Ref Mon # 1 MENAPORT AZ MK Ref Mon # 2 AP 1970 STA A3 HOT Ref Mon # 3 DE QUEEN CORS	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 34 33 38.7782964

Longitude 93 38 12.5750112

Ellipsoid Height (M): 164.279

Geoid Height (M): -28.468

Location Description

TO REACH THIS STATION FROM THE MONTGOMERY COUNTY COURT HOUSE, GO WEST ON U.S. HIGHWAY 270 FOR 0.30 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.70 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "490004A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490005	Date Monumented 2/6/2007	Monumented By AHTD	County MONTGOMERY	Route 70	Job Number: 080318
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	586,892.0259	
Easting (M)	262,263.0070	
Elevation (M)*	182.898	
Northing (SFT)	1,925,494.9216	
Easting (SFT)	860,441.2155	
Elevation (SFT)*	600.059	

Convergence Angle	0	50	16.4787889
Scale Factor	0.999932889		
Elevation Adjust. Factor	0.9999712981		
Combined Adjust. Factor	0.9999041890		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	RIGHT OF WAY MONUMENT	346	1.65	5.4	
MK # 2	10" FORKED OAK TREE	61	6.40	21.0	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARHP Ref Mon # 3 DQUA	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.</td> </tr> </table>	Comments	3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.
Comments			
3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 70B, EAST OF GLENWOOD, GO EAST ON HIGHWAY 70 FOR 2.4 MILES TO THE STATION MARK ON THE LEFT, EAST 115.2 FEET OF A DRIVEWAY, NORTHWEST 70.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST 4.60 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "490005 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490006	Date Monumented 2/6/2007	Monumented By AHTD	County MONTGOMERY	Route 70	Job Number: 080318
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	590,089.3758	
Easting (M)	269,928.3940	
Elevation (M)*	184.913	
Northing (SFT)	1,935,984.8938	
Easting (SFT)	885,590.0726	
Elevation (SFT)*	606.667	

Convergence Angle	0	47	29.5939651
Scale Factor	0.999935815		
Elevation Adjust. Factor	0.9999709820		
Combined Adjust. Factor	0.9999067989		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE PEDESTAL	270	19.18	62.9
MK # 2	WOOD FENCE POST		4.88	16.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.
Ref Mon # 2 ARHP	
Ref Mon # 3 DQUA	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 22 20.7207120
Longitude	93 24 51.3728460
Ellipsoid Height (M):	157.382
Geoid Height (M):	-27.520

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 182, EAST OF GLENWOOD, GO EAST ON HIGHWAY 70 FOR 1.9 MILES TO THE STATION MARK ON THE LEFT, EAST 32.2 FEET OF A DRIVEWAY, NORTH 47.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 3.60 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "490006 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

AZ Mark Station	490006A
Geodetic Azimuth	91 02 43
Grid Azimuth	91 50 13

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490006A	Date Monumented 2/6/2007	Monumented By AHTD	County MONTGOMERY	Route 70	Job Number: 080318
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	590,073.4759	
Easting (M)	270,424.1710	
Elevation (M)*	181.820	
Northing (SFT)	1,935,932.7288	
Easting (SFT)	887,216.6344	
Elevation (SFT)*	596.522	

Convergence Angle	0	47	18.7291190
Scale Factor	0.999935806		
Elevation Adjust. Factor	0.9999714673		
Combined Adjust. Factor	0.9999072751		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WOOD GATE POST	99	0.33	1.1	490006
MK # 2	SOUTHEAST CORNER BRIDGE	281	26.09	85.6	271 02 54
MK # 3	EAST END GUARD RAIL	330	9.85	32.3	271 50 13

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHP Ref Mon # 3 DQUA	3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490007	Date Monumented 5/1/2007	Monumented By AHTD	County MONTGOMERY	Route 70	Job Number: 080318
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	589,352.7539	
Easting (M)	266,804.1810	
Elevation (M)*	195.901	
Northing (SFT)	1,933,568.1601	
Easting (SFT)	875,340.0505	
Elevation (SFT)*	642.720	

Convergence Angle	0	48	37.8015756
Scale Factor	0.999935100		
Elevation Adjust. Factor	0.9999692576		
Combined Adjust. Factor	0.9999043596		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	GAS METER	60	23.41	76.8	AZ Mark Station 490007A
MK # 2	POWER POLE	241	3.05	10.0	Geodetic Azimuth 243 29 47
MK # 3	TELEPHONE BOX	276	3.60	11.8	Grid Azimuth 244 18 25

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 490006, 490006A	3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.
Ref Mon # 2 550008	
Ref Mon # 3 490005	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490007A	Date Monumented 5/1/2007	Monumented By AHTD	County MONTGOMERY	Route 70	Job Number: 080318
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	589,079.2388	
Easting (M)	266,235.6810	
Elevation (M)*	196.437	
Northing (SFT)	1,932,670.8026	
Easting (SFT)	873,474.8967	
Elevation (SFT)*	644.476	

Convergence Angle	0	48	50.1684128
Scale Factor	0.999934846		
Elevation Adjust. Factor	0.9999691736		
Combined Adjust. Factor	0.9999040216		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 182, EAST OF GLENWOOD, GO WEST ON HIGHWAY 70 FOR 0.40 MILES TO THE STATION MARK ON THE LEFT, SOUTHEAST 37.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTHWEST 1.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "490007A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>490006, 490006A</td> </tr> <tr> <td>Ref Mon # 2</td> <td>550008</td> </tr> <tr> <td>Ref Mon # 3</td> <td>490005</td> </tr> </table>	Ref Mon # 1	490006, 490006A	Ref Mon # 2	550008	Ref Mon # 3	490005	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> 3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07. </td> </tr> </table>	Comments	3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.
Ref Mon # 1	490006, 490006A								
Ref Mon # 2	550008								
Ref Mon # 3	490005								
Comments									
3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.									

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490008	Date Monumented 3/11/2008	Monumented By AHTD	County MONTGOMERY	Route 270	Job Number: 080310
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	625,563.3389	
Easting (M)	233,130.7760	
Elevation (M)*		
Northing (SFT)	2,052,369.0544	
Easting (SFT)	764,863.2209	
Elevation (SFT)*		

Convergence Angle	-1	1	9.4253573
Scale Factor	0.999983194		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER BOX CULVERT	104	38.41	126.0
MK # 2	14" OAKTREE	005	23.17	76.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 Q 299 Ref Mon # 3 MENAPORT AZ	

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 41 12.9700572
Longitude	93 49 16.1665464
Ellipsoid Height (M):	266.367
Geoid Height (M):	-29.371

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 WEST AND STATE HIGHWAY 88 NORTH, AT PENCIL BLUFF, GO WEST ON HIGHWAY 270 FOR 6.60 MILES TO THE STATION MARK ON THE RIGHT, NORTH 36.6 FEET OF THE CENTER OF THE HIGHWAY AND SOUTH 43.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "490008 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490008A	Date Monumented 3/11/2008	Monumented By AHTD	County MONTGOMERY	Route 270	Job Number: 080310
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	625,589.1699	
Easting (M)	232,606.7510	
Elevation (M)*		
Northing (SFT)	2,052,453.8016	
Easting (SFT)	763,143.9822	
Elevation (SFT)*		

Convergence Angle	-1	1	20.9562705
Scale Factor	0.999983224		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	15" CONCRETE CULVERT	274	28.04	92.0
MK # 2	18" PINE TREE	245	22.49	73.8
MK # 3	15" OAK TREE	306	14.17	46.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	
Ref Mon # 2 Q 299	
Ref Mon # 3 MENAPORT AZ	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 41 13.5052044
Longitude	93 49 36.7688424
Ellipsoid Height (M):	269.504
Geoid Height (M):	-29.384

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 WEST AND STATE HIGHWAY 88 NORTH, AT PENCIL BLUFF, GO WEST ON HIGHWAY 270 FOR 6.90 MILES TO THE STATION MARK ON THE RIGHT, NORTH 27.5 FEET OF THE CENTER OF THE HIGHWAY, 13.0 FEET EAST OF A FOREST SERVICE ROAD AND SOUTH 25.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "490008A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490009	Date Monumented 3/11/2008	Monumented By AHTD	County MONTGOMERY	Route 270	Job Number: 080310
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	622,837.5990	
Easting (M)	237,642.6610	
Elevation (M)*		
Northing (SFT)	2,043,426.3561	
Easting (SFT)	779,665.9636	
Elevation (SFT)*		

Convergence Angle	0	59	29.1928028
Scale Factor	0.999978543		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	130	20.73	68.0
MK # 2	COMBINATION POLE	324	27.13	89.0
MK # 3	14" PLASTIC PIPE END	228	10.21	33.5

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>Q 299</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MENAPORT AZ</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	Q 299	Ref Mon # 3	MENAPORT AZ	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARLR						
Ref Mon # 2	Q 299						
Ref Mon # 3	MENAPORT AZ						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 39 47.0966076
Longitude	93 46 17.0809248
Ellipsoid Height (M):	253.164
Geoid Height (M):	-29.182

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 WEST AND STATE HIGHWAY 88 NORTH, AT PENCIL BLUFF, GO WEST ON HIGHWAY 270 FOR 2.8 MILES TO THE STATION MARK ON THE LEFT, SOUTH 33.0 FEET OF THE CENTER OF THE HIGHWAY, 22.0 FEET SOUTHEAST OF THE CENTER OF A DRIVEWAY AND NORTHEAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "490009 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	490008A
Geodetic Azimuth	135 13 03
Grid Azimuth	136 12 32

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490009A	Date Monumented 3/11/2008	Monumented By AHTD	County MONTGOMERY	Route 270	Job Number: 080310
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	622,603.4639	
Easting (M)	237,867.1200	
Elevation (M)*		
Northing (SFT)	2,042,658.1978	
Easting (SFT)	780,402.3762	
Elevation (SFT)*		

Convergence Angle	0	59	24.1704464
Scale Factor	0.999978146		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WOOD FENCE CORNER	303	14.63	48.0	AZ Mark Station 490008
MK # 2	24" CONCRETE CULVERT	314	10.70	35.1	Geodetic Azimuth 315 13 08
MK # 3	TELEPHONE RISER	32	1.34	4.4	Grid Azimuth 316 12 32

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	
Ref Mon # 2 Q 299	
Ref Mon # 3 MENAPORT AZ	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490010	Date Monumented 7/20/2010	Monumented By AHTD	County Montgomery	Route 27	Job Number: 080379
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	617,645.9049	
Easting (M)	258,111.1210	
Elevation (M)*	182.215	
Northing (SFT)	2,026,393.2730	
Easting (SFT)	846,819.5695	
Elevation (SFT)*	597.816	

Convergence Angle	0	51	57.5717241
Scale Factor	0.999970454		
Elevation Adjust. Factor	0.9999714054		
Combined Adjust. Factor	0.9999418603		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone box	169	46.63	153.0
MK # 2	18 inch metal culvert	175	51.82	170.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHP Ref Mon # 3 ARCM	Elevations were est. by digital levels ran by crew S5110 in Aug. 2010 from TBM 901 in Job 080397. The elevation for TBM 901 was est. during a Static survey session utilizing NGS mark E 24 in Job 080379.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490010A	Date Monumented 7/20/2010	Monumented By AHTD	County Montgomery	Route 27	Job Number: 080379
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	617,296.8670	
Easting (M)	257,931.8030	
Elevation (M)*	187.798	
Northing (SFT)	2,025,248.1378	
Easting (SFT)	846,231.2570	
Elevation (SFT)*	616.135	

Convergence Angle	0	52	1.3950377
Scale Factor	0.999969891		
Elevation Adjust. Factor	0.9999705292		
Combined Adjust. Factor	0.9999404211		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	37	47.55	156.0
MK # 2	Power pole	210	43.89	144.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARHP Ref Mon # 3 ARCM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevations were est. by digital levels ran by crew S5110 in Aug. 2010 from TBM 901 in Job 080397. The elevation for TBM 901 was est. during a Static survey session utilizing NGS mark E 24 in Job 080379.</td> </tr> </table>	Comments	Elevations were est. by digital levels ran by crew S5110 in Aug. 2010 from TBM 901 in Job 080397. The elevation for TBM 901 was est. during a Static survey session utilizing NGS mark E 24 in Job 080379.
Comments			
Elevations were est. by digital levels ran by crew S5110 in Aug. 2010 from TBM 901 in Job 080397. The elevation for TBM 901 was est. during a Static survey session utilizing NGS mark E 24 in Job 080379.			

Location Description	
To reach the station from the junction of highways 270 and 27 on the west side of Mt. Ida go north on hwy-27 for 7.40 miles to the station on the right at the corner of hwy-27 and "Freedom road". 33.0 feet south of the center of Freedom road, 31.0 feet east of the center of hwy-27 and 1.70 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "D490010A 2010" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.10 feet below the surface. The "D" denotes that this is a duplicate point number.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490011	Date Monumented 7/20/2010	Monumented By AHTD	County Montgomery	Route 27	Job Number: 080379
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	621,100.1609	
Easting (M)	259,481.6080	
Elevation (M)*	183.595	
Northing (SFT)	2,037,726.1112	
Easting (SFT)	851,315.9089	
Elevation (SFT)*	602.346	

Convergence Angle	0	51	28.6003969
Scale Factor	0.999976178		
Elevation Adjust. Factor	0.9999711887		
Combined Adjust. Factor	0.9999473674		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Northeast corner of a bridge	352	36.19	118.7
MK # 2	Power pole	115	14.02	46.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHP Ref Mon # 3 ARCM	Elevations were est. by digital levels ran by crew S5110 in Aug. 2010 from TBM 901 in Job 080397. The elevation for TBM 901 was est. during a Static survey session utilizing NGS mark E 24 in Job 080379.

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 39 2.1575196
Longitude	93 31 58.4059152
Ellipsoid Height (M):	154.956
Geoid Height (M):	-28.601

Location Description
To reach the station from the junction of highways 270 and 27 on the west side of Mt. Ida go north on hwy-27 for 10.2 miles to the station on the right just south of the bridge over Lake Ouachita and about 5 feet above the road surface. 30.00 feet east of the center of hwy-27 and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "490011 2010" set on top of a 5/8 inch by 2.0 foot long rebar and is 0.10 feet below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490011A	Date Monumented 7/20/2010	Monumented By AHTD	County Montgomery	Route 27	Job Number: 080379
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	620,655.0339		
Easting (M)	259,316.9180		
Elevation (M)*	188.408		
Northing (SFT)	2,036,265.7237		
Easting (SFT)	850,775.5885		
Elevation (SFT)*	618.135		

Convergence Angle	0	51	32.0730900
Scale Factor	0.999975424		
Elevation Adjust. Factor	0.9999704335		
Combined Adjust. Factor	0.9999458583		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone box	250	30.78	101.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHP Ref Mon # 3 ARCM	Elevations were est. by digital levels ran by crew S5110 in Aug. 2010 from TBM 901 in Job 080397. The elevation for TBM 901 was est. during a Static survey session utilizing NGS mark E 24 in Job 080379.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490021	Date Monumented 12/14/2015	Monumented By AHTD	County MONTGOMERY	Route 88	Job Number: B230
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	617,978.7706 0.0036
Easting (M)	237,112.2087 0.0029
Elevation (M)*	231.092 0.0030
Northing (SFT)	2,027,485.3499
Easting (SFT)	777,925.6380
Elevation (SFT)*	758.175

Convergence Angle	0 59 38.9984956
Scale Factor	0.999970441
Elevation Adjust. Factor	0.9999637354
Combined Adjust. Factor	0.9999341775

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
TO REACH FROM THE INTERSECTION OF HWY. 88 AND HWY. 379 IN ODEN. GO EAST ON HWY. 88 FOR 0.05 MILES TO THE STATION ON THE LEFT. THE STATION IS 3 FT. NORTH OF A WITNESS POST, AND 35 FT. NORTH OF THE CENTERLINE OF HWY. 88. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "490021 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	260	15.10	49.5
MK # 2	36" OAK TREE	11	30.00	98.4
MK # 3	SOUTHWEST CORNER OF WOODEN FENCE	62	25.40	83.3

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARHP
Ref Mon # 2	ARLR
Ref Mon # 3	OKHV

Comments
Three wire levels ran by S5102 in December, 2015 through NGS mon. W 134

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490021A	Date Monumented 12/14/2015	Monumented By AHTD	County MONTGOMERY	Route 88	Job Number: B230
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	617,879.1366 0.0032
Easting (M)	237,696.7006 0.0027
Elevation (M)*	220.795 0.0010
Northing (SFT)	2,027,158.4673
Easting (SFT)	779,843.2586
Elevation (SFT)*	724.391

Convergence Angle	0 59 26.1206590
Scale Factor	0.999970297
Elevation Adjust. Factor	0.9999653513
Combined Adjust. Factor	0.9999356493

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	None
Elevation Datum:	
Geoid Datum:	GEOID12A
Latitude	34 37 6.2362308
Longitude	93 46 11.5919220
Ellipsoid Height (M):	191.671 0.0101
Geoid Height (M):	-29.129

Location Description
<p>TO REACH FROM THE INTERSECTION OF HWY. 88 AND HWY. 379 IN ODEN. GO EAST ON HWY. 88 FOR 0.4 MILES TO THE STATION ON THE RIGHT. THE STATION IS 5 FT. NORTH OF A WITNESS POST, 46.5 FT. SOUTH OF THE CENTERLINE OF HWY. 88, AND 191 FT. EAST OF THE SOUTHEAST CORNER OF SOUTH HEADWALL. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "490021A 2015" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WESTERN POST OF "H" BRACE	215	2.00	6.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP Ref Mon # 2 ARLR Ref Mon # 3 OKHV	Three wire levels ran by S5102 in December, 2015 through NGS mon. W 134

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490022	Date Monumented 9/19/2017	Monumented By AHTD	County MONTGOMERY	Route 8	Job Number: 080503
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	593,893.8876 0.0030
Easting (M)	250,723.3714 0.0030
Elevation (M)*	192.353 0.0006
Northing (SFT)	1,948,466.8629
Easting (SFT)	822,581.5943
Elevation (SFT)*	631.077

Convergence Angle	0 54 31.5913144
Scale Factor	0.999939226
Elevation Adjust. Factor	0.9999698145
Combined Adjust. Factor	0.9999090423

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FOC utility marker	271	25.91	85.0
MK # 2	FOC utility marker	212	32.31	106.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHP Ref Mon # 2 ARCM Ref Mon # 3 ARLR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> Position derived by static GPS constraining the elevation at NGS BM B24. Elevation by digital levels holding NGS BM Y23. GPS and levels performed by crew S5102 during job 050503 during Sept. 2017. </td> </tr> </table>	Comments	Position derived by static GPS constraining the elevation at NGS BM B24. Elevation by digital levels holding NGS BM Y23. GPS and levels performed by crew S5102 during job 050503 during Sept. 2017.
Comments			
Position derived by static GPS constraining the elevation at NGS BM B24. Elevation by digital levels holding NGS BM Y23. GPS and levels performed by crew S5102 during job 050503 during Sept. 2017.			

Location Description
To reach the station from the junction of Hwy 8 and Hwy 27 in Norman Ar., Go South East on Hwy 8 for 5.5 miles to the station on the Left. The station is 23.3' NE of the center of Hwy 8. The station mark is a 2" aluminum cap stamped 490022 on top of a 5/8" rebar driven .3' under the surface of the soil.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490022A	Date Monumented 9/19/2017	Monumented By AHTD	County MONTGOMERY	Route 8	Job Number: 080503
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	594,301.9306	0.0030			
Easting (M)	250,496.3887	0.0030			
Elevation (M)*	192.925	0.0008			
Northing (SFT)	1,949,805.5840				
Easting (SFT)	821,836.9019				
Elevation (SFT)*	632.955				

Convergence Angle	0	54	36.7071515
Scale Factor	0.999939638		
Elevation Adjust. Factor	0.9999697247		
Combined Adjust. Factor	0.9999093645		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth	Distance		AZ Mark Station
				Meters	Feet	
MK # 1	Gas meter		232	11.58	38.0	490022
MK # 2	Gas meter		166	23.47	77.0	
MK # 3	10"x18" CMP SE end		233	9.54	31.3	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP	Position derived by static GPS constraining the elevation at NGS BM B24. Elevation by digital levels holding NGS BM Y23. GPS and levels performed by crew S5102 during job 050503 during Sept. 2017.
Ref Mon # 2 ARCM	
Ref Mon # 3 ARLR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490023	Date Monumented 9/19/2017	Monumented By AHTD	County MONTGOMERY	Route 8	Job Number: 080503
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	598,037.4416	0.0030			
Easting (M)	248,441.9625	0.0040			
Elevation (M)*	215.983	0.0018			
Northing (SFT)	1,962,061.1730				
Easting (SFT)	815,096.6720				
Elevation (SFT)*	708.605				

Convergence Angle	0	55	23.0456718
Scale Factor	0.999943595		
Elevation Adjust. Factor	0.9999661063		
Combined Adjust. Factor	0.9999097033		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	304	30.48	100.0
MK # 2	Power Pole	120	12.71	41.7
MK # 3	24" RCP SE end	124	44.29	145.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP	Position derived by static GPS constraining the elevation at NGS BM B24. Elevation by digital levels holding NGS BM Y23. GPS and levels performed by crew S5102 during job 050503 during Sept. 2017.
Ref Mon # 2 ARCM	
Ref Mon # 3 ARLR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 490023A	Date Monumented 9/19/2017	Monumented By AHTD	County MONTGOMERY	Route 8	Job Number: 080503
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	598,281.5349	0.0030			
Easting (M)	248,053.7385	0.0030			
Elevation (M)*	212.228	0.0018			
Northing (SFT)	1,962,862.0024				
Easting (SFT)	813,822.9737				
Elevation (SFT)*	696.285				

Convergence Angle	0	55	31.6427894
Scale Factor	0.999943861		
Elevation Adjust. Factor	0.9999666956		
Combined Adjust. Factor	0.9999105585		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Gas meter	181	32.00	105.0
MK # 2	Water meter	115	24.32	79.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP	Position derived by static GPS constraining the elevation at NGS BM B24. Elevation by digital levels holding NGS BM Y23. GPS and levels performed by crew S5102 during job 050503 during Sept. 2017.
Ref Mon # 2 ARCM	
Ref Mon # 3 ARLR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 500001	Date Monumented 7/14/2004	Monumented By AHTD	County NEVADA	Route 67N	Job Number: R30026, 030377
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	526,860.4912	
Easting (M)	272,204.2240	
Elevation (M)*	99.530	
Northing (SFT)	1,728,541.4615	
Easting (SFT)	893,056.6916	
Elevation (SFT)*	326.540	

Convergence Angle	0	46	21.0658305
Scale Factor	0.999926602		
Elevation Adjust. Factor	0.9999843808		
Combined Adjust. Factor	0.9999109840		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WATER METER	262	7.40	24.3	
MK # 2	LIGHT POLE	289	16.15	53.0	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD HOPE, DQUA Ref Mon # 2 AHTD LITTLE ROCK Ref Mon # 3 S 197	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire levels ran by crew S5111 on Job R30026 in December of 2005 from 2nd order NGS marks 318 and Prescott.</td> </tr> </table>	Comments	3-Wire levels ran by crew S5111 on Job R30026 in December of 2005 from 2nd order NGS marks 318 and Prescott.
Comments			
3-Wire levels ran by crew S5111 on Job R30026 in December of 2005 from 2nd order NGS marks 318 and Prescott.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND 371, IN PRESCOTT, GO NORTH ON HIGHWAY 67 64.40 METERS TO THE STATION ON THE RIGHT, 7.50 METERS SOUTHEAST OF THE SOUTHEAST END OF A BRICK SIGN, SOUTHEAST 28.30 METERS OF THE CENTERLINE OF THE HIGHWAY, 7.40 METERS NORTHWEST OF THE CENTERLINE OF THE RAILROAD, AND SOUTHEAST 6.40 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "500001 2004" ON TOP OF A 1.22 IRON ROD DRIVEN FLUSH WITH THE GROUND.	

AZ Mark Station	500001A
Geodetic Azimuth	48 22 19
Grid Azimuth	49 08 40

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 500001A	Date Monumented 7/14/2004	Monumented By AHTD	County NEVADA	Route 67	Job Number: R30026
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	527,233.8171	
Easting (M)	272,635.8770	
Elevation (M)*	95.805	
Northing (SFT)	1,729,766.2816	
Easting (SFT)	894,472.8731	
Elevation (SFT)*	314.320	

Convergence Angle	0	46	11.7825836
Scale Factor	0.999926364		
Elevation Adjust. Factor	0.9999849653		
Combined Adjust. Factor	0.9999113304		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	FIRE HYDRANT	84	28.95	95.0	500001
MK # 2	COMBINATION POLE WITH GUY	190	29.20	95.8	228 22 28
MK # 3	RAIL ROAD SWITCH BOX	258	27.90	91.5	229 08 40

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HOPE, DQUA	3-Wire levels ran by crew S5111 on Job R30026 in December of 2005 from 2nd order NGS marks 318 and Prescott.
Ref Mon # 2 AHTD LITTLE ROCK	
Ref Mon # 3 S 197	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 500002	Date Monumented 7/14/2004	Monumented By AHTD	County NEVADA	Route 24	Job Number: R30011
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	523,685.0472	
Easting (M)	291,984.4390	
Elevation (M)*	56.074	
Northing (SFT)	1,718,123.3590	
Easting (SFT)	957,952.2803	
Elevation (SFT)*	183.969	

Convergence Angle	0	39	9.8662348
Scale Factor	0.999928561		
Elevation Adjust. Factor	0.9999912003		
Combined Adjust. Factor	0.9999197619		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	345	14.80	48.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 S 197 Ref Mon # 2 AHTD HOPE, LROC Ref Mon # 3 DQUA	Comments 3-wire Elevations were ran by S5104 from NGS V 192 X in Job# R30011 on Feb 2005
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 46 34.6127124
Longitude	93 9 58.5087300
Ellipsoid Height (M):	29.532
Geoid Height (M):	-26.506

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 24 AND i53, SOUTH OF PRESCOTT, GO EAST ON HIGHWAY 24 0.35 MILES TO THE iSTATION MARK ON THE RIGHT, 13.40 METERS WEST OF THE CENTERLINE iOF THE HIGHWAY AND EAST 0.50 METERS OF A WITNESS POST. THE iSTATION MARK IS A STANDARD 64mm CAP STAMPED "500002 2004" ON TOP iOF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROiUND.

AZ Mark Station	500002A
Geodetic Azimuth	351 34 14
Grid Azimuth	352 13 24

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 500002A	Date Monumented 7/14/2004	Monumented By AHTD	County NEVADA	Route 24	Job Number: R30011
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	524,268.5952	
Easting (M)	291,904.7450	
Elevation (M)*	55.732	
Northing (SFT)	1,720,037.8828	
Easting (SFT)	957,690.8176	
Elevation (SFT)*	182.849	

Convergence Angle	0	39	11.7445563
Scale Factor	0.999928155		
Elevation Adjust. Factor	0.9999912539		
Combined Adjust. Factor	0.9999194095		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	147	4.80	15.7
MK # 2	FENCE CORNER	347	6.40	21.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 S 197	3-wire Elevations were ran by S5104 from NGS V 192 X in Job# R30011 on Feb 2005
Ref Mon # 2 AHTD HOPE, LROC	
Ref Mon # 3 DQUA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 500003	Date Monumented 11/4/2005	Monumented By AHTD	County NEVADA	Route 24	Job Number: 030323
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	524,188.3471	
Easting (M)	285,344.9580	
Elevation (M)*	59.452	
Northing (SFT)	1,719,774.6021	
Easting (SFT)	936,169.2497	
Elevation (SFT)*	195.052	

Convergence Angle	0	41	34.4261205
Scale Factor	0.999928263		
Elevation Adjust. Factor	0.9999906701		
Combined Adjust. Factor	0.9999189338		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LROC Ref Mon # 2 Hopeport Ref Mon # 3 S 197	

Vertical Determined By:		GPS - Unknown Quality	
Elevation Datum:		NONE	
Geoid Datum:			
Latitude	33	46	48.4173732
Longitude	93	14	16.7940456
Ellipsoid Height (M):	32.879		
Geoid Height (M):	-26.573		

Location Description
To reach the station from the junction of highways 53 and 24 south of Gurdon go west on Hwy-24 for 4.70 mi. to the station on the right just past a bridge over Terra Rouge creek and set between the roadway and an asphalt drive that goes beside and then under the bridge. 10.60 meters from the center of the asphalt drive, 7.40 meters North of the center of Hwy-24 and 6.00 meters south of a witness post. The station mark is a standard 64mm cap stamped "500003 2004" set on top of an iron rod 1.22 meters long and just below the grounds surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 500003A	Date Monumented 11/4/2005	Monumented By AHTD	County NEVADA	Route 24	Job Number: 030323
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	524,448.0761	
Easting (M)	284,637.2250	
Elevation (M)*	60.371	
Northing (SFT)	1,720,626.7297	
Easting (SFT)	933,847.2957	
Elevation (SFT)*	198.067	

Convergence Angle	0	41	49.8907449
Scale Factor	0.999928090		
Elevation Adjust. Factor	0.9999905259		
Combined Adjust. Factor	0.9999186166		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	South end of a culvert	215	7.20	23.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LROC Ref Mon # 2 Hopeport Ref Mon # 3 S 197	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 46 56.5685328
Longitude	93 14 44.4247080
Ellipsoid Height (M):	33.790
Geoid Height (M):	-26.582

Location Description
<p>To reach the station from the junction of highways 53 and 24 south of Gurdon go West on Hwy-24 for 5.11 mi. to the station on the left outside of a curve to the right and near a paved driveway. 10.60 meters Southwest of the center of Hwy-24, 2.80 meters South southwest of the paved drive and 0.50 meters Southeast of a witness post. The station mark is a standard 64mm cap stamped "500003A 2004" set on top of an iron rod 1.22 meters long and is just below the grounds surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 500004	Date Monumented 1/5/2010	Monumented By AHTD	County NEVADA	Route 32	Job Number: 030BR1
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	499,915.6592	
Easting (M)	266,490.7460	
Elevation (M)*	87.438	
Northing (SFT)	1,640,139.9586	
Easting (SFT)	874,311.7225	
Elevation (SFT)*	286.870	

Convergence Angle	0	48	17.1498818
Scale Factor	0.999952662		
Elevation Adjust. Factor	0.9999862783		
Combined Adjust. Factor	0.9999389410		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	83	20.51	67.3	50004A
MK # 2	TELEPHONE RISER	15	9.63	31.6	114 30 36
MK # 3					115 18 53

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARHP, ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 3</td> <td>290020</td> </tr> </table>	Ref Mon # 1	ARHP, ARLR	Ref Mon # 2	ARCM	Ref Mon # 3	290020	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARHP, ARLR						
Ref Mon # 2	ARCM						
Ref Mon # 3	290020						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 500004A	Date Monumented 1/5/2010	Monumented By AHTD	County NEVADA	Route 32	Job Number: 030BR1
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	499,596.1362	
Easting (M)	267,166.2490	
Elevation (M)*	88.511	
Northing (SFT)	1,639,091.6568	
Easting (SFT)	876,527.9353	
Elevation (SFT)*	290.390	

Convergence Angle	0	48	2.3965002
Scale Factor	0.999953065		
Elevation Adjust. Factor	0.9999861099		
Combined Adjust. Factor	0.9999391756		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SERVICE POLE WW/ GUY	236	23.47	77.0
MK # 2	TELEPHONE BOX	138	108.60	356.3
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP, ARLR	
Ref Mon # 2 ARCM	
Ref Mon # 3 290020	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 33 22.5596304
Longitude	93 25 49.9811736
Ellipsoid Height (M):	61.840
Geoid Height (M):	-26.671

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND STATE HIGHWAY 32, SOUTHWEST OF BODCAW, GO WEST ON 32 FOR 1.3 MILES TO THE STATION MARK ON THE RIGHT, NORTH 18.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 23.1 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "500004A 2010" ON TOP OF A 4.0 FOOT REBBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 500005	Date Monumented 3/1/2011	Monumented By AHTD	County NEVADA	Route 371	Job Number: 030394
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	494,648.6842
Easting (M)	279,473.6890
Elevation (M)*	105.914
Northing (SFT)	1,622,859.8914
Easting (SFT)	916,906.5947
Elevation (SFT)*	347.487

Convergence Angle	0 43 34.0035497
Scale Factor	0.999959580
Elevation Adjust. Factor	0.9999833789
Combined Adjust. Factor	0.9999429595

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CP WITH LIGHT	168	7.80	25.6
MK # 2	FH	324	15.48	50.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARHP Ref Mon # 3 290020	DIGITAL LEVELS FROM THIRD ORDER BENCH MARK 17 EV 1973 BY S5112 ON 3/3/2011.

Location Description	
TO REACH THE STATION MARK FROM THE INTERSECTION OF ARKANSAS STATE HIGHWAY 371 AND ARKANSAS STATE HIGHWAY 32 IN WILLISVILLE, GO SOUTH ON HIGHWAY 371 0.25 MILES TO THE MARK ON THE RIGHT, WEST OF THE CENTERLINE OF HIGHWAY 371 33.5 FEET, NORTH OF THE CENTERLINE OF A GRAVEL DRIVE 56.1 FEET. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "500005 2011" ON TOP OF A 2 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND .	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 500006	Date Monumented 6/21/2011	Monumented By AHTD	County Nevada	Route Highway 355	Job Number: BR5006
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	488,921.2182	0.0066	
Easting (M)	271,092.9928	0.0060	
Elevation (M)*			
Northing (SFT)	1,604,069.0300		
Easting (SFT)	889,410.9272		
Elevation (SFT)*			

Convergence Angle	0	46	34.0620121
Scale Factor	0.999968290		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	telephone box	171	0.91	3.0
MK # 2	36" RCP	87	11.89	39.0
MK # 3	36" plastic pipe culvert	292	18.29	60.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM Ref Mon # 2 ARHP Ref Mon # 3 SHRV	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	Geoid96
Latitude	33 27 37.8490605
Longitude	93 23 12.1538412
Ellipsoid Height (M):	69.158 0.0151
Geoid Height (M):	-26.586 0.3195

Location Description
To reach the station from the intersection of Highway 53 and Highway 355, in Falcon, go east on Highway 355 for 1.6 miles to the station on the right, 28 feet south of the centerline of highway 355 and 2 feet north of a witness post. The station is a standard 2 1/2" AHTD cap stamped "2011 500006", set on top of a 4 foot rebar and driven 0.2 inches below ground level.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 500006A	Date Monumented 6/21/2011	Monumented By AHTD	County Nevada	Route CR 7	Job Number: BR5006
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	489,334.5858 0.0062
Easting (M)	271,304.3873 0.0063
Elevation (M)*	

Northing (SFT)	1,605,425.2202	
Easting (SFT)	890,104.4773	
Elevation (SFT)*		

Convergence Angle	0	46	29.6017586
Scale Factor	0.999967641		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
to reach the station from the intersection of highway 355 and county road 7, go north on county road 7 for 0.3 miles to the station on the right, 33 feet east of the centerline of county road 7 and 2 feet west of a witness post. The station is a standard 2 1/2" AHTD cap stamped "2011 500006A". set on top of a 4 foot rebar and driven 0.2 inches below ground level.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	telephone box	25	5.33	17.5
MK # 2	service pole	159	15.54	51.0
MK # 3	combination pole	82	24.38	80.0

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SHRV</td> </tr> </table>	Ref Mon # 1	ARCM	Ref Mon # 2	ARHP	Ref Mon # 3	SHRV	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARCM							
Ref Mon # 2	ARHP							
Ref Mon # 3	SHRV							
Comments								

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 500007	Date Monumented 7/1/2014	Monumented By AHTD	County NEVADA	Route CR 37	Job Number: BR5007
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	533,663.7312	0.0040	
Easting (M)	273,064.9500	0.0040	
Elevation (M)*			
Northing (SFT)	1,750,861.7581		
Easting (SFT)	895,880.5901		
Elevation (SFT)*			

Convergence Angle	0	46	4.3211628
Scale Factor	0.999922862		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1		334	14.80	48.6	500007A
MK # 2	CENTER OF GATE	269	62.80	206.0	
MK # 3	SOUTH END OF 18" CMP	22	11.90	39.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	
Ref Mon # 2 ARHP	
Ref Mon # 3 ARCM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 500007A	Date Monumented 7/1/2014	Monumented By AHTD	County NEVADA	Route CR 37	Job Number: BR5007
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	533,105.6418	0.0050			
Easting (M)	273,055.8198	0.0050			
Elevation (M)*					
Northing (SFT)	1,749,030.7598				
Easting (SFT)	895,850.6355				
Elevation (SFT)*					

Convergence Angle	0	46	4.3570963
Scale Factor	0.999923126		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	22	15.20	49.9
MK # 2	CENTER OF CATTLE GUARD	132	22.70	74.5
MK # 3	NORTH END OF STEEL CULV	330	9.80	32.2

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARHP Ref Mon # 3 ARCM	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 19, NORTH OF PRESCOTT, GO NORTH ON HIGHWAY 19 FOR 1.2 MILES TO COUNTY ROAD 42N AND TURN RIGHT AND GO 0.5 MILES TO COUNTY ROAD 60W AND TURN RIGHT AND GO 2.15 MILES TO COUNTY ROAD 37 AND THE MARK IN THE NORTHEAST CORNER OF THE JUNCTION, EAST 23.5 FEET OF THE CENTERLINE OF CR 37 AND NORTH 17 FEET OF THE C/L OF A GRAVEL DRIVE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "500007A 2014" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	500007
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 500008	Date Monumented 9/26/2017	Monumented By AHTD	County NEVADA	Route 19	Job Number: 030458
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	543,034.4253 0.0020
Easting (M)	266,544.6232 0.0020
Elevation (M)*	

Northing (SFT)	1,781,605.4437	
Easting (SFT)	874,488.4846	
Elevation (SFT)*		

Convergence Angle	0	48	29.1769004
Scale Factor	0.999919606		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 29S AND STATE HIGHWAY 19, NORTH OF PRESCOTT, GO NORTH ON HIGHWAY 19 2.3 MILES TO THE MARK ON THE RIGHT, 34' EAST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2" CAP STAMPED "500008 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NE CORNER LITTLE MISSOURI RIVER RELI FEED	195	18.07	59.3
MK # 2	NORTH END EAST GUARDRAIL OF RELIEF BRIDGE	345	9.14	30.0
MK # 3				

AZ Mark Station	500008A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM Ref Mon # 2 ARHP Ref Mon # 3 ARLR, ARRV, OKHV	<div style="border: 1px solid black; height: 100px; margin-top: 10px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 500008A	Date Monumented 9/26/2017	Monumented By AHTD	County NEVADA	Route 19	Job Number: 030458
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	543,462.1277	0.0020			
Easting (M)	266,548.9848	0.0020			
Elevation (M)*					
Northing (SFT)	1,783,008.6640				
Easting (SFT)	874,502.7943				
Elevation (SFT)*					

Convergence Angle	0	48	29.2133275
Scale Factor	0.999919507		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						500008
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	
Ref Mon # 2 ARHP	
Ref Mon # 3 ARLR, ARRV, OKHV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510001	Date Monumented 9/11/1990	Monumented By AHTD	County NEWTON	Route 43	Job Number: R90034
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	194,131.1950	
Easting (M)	277,311.3690	
Elevation (M)*		
Northing (SFT)	636,912.0956	
Easting (SFT)	909,812.3831	
Elevation (SFT)*		

Convergence Angle	0	47	33.4031428
Scale Factor	0.999972609		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
THE STATION IS ON THE RIGHT SIDE OF HWY. 43 1.50 MILES SOUTH OF AHTD GPS STATION 90510002, 57.3 FEET LEFT OF THE CENTERLINE OF HWY. 43, 0.05 MILES NORTH OF HWY. 103, 0.13 FEET WEST OF A FENCE AND 1.3 FEET EAST OF A WITNESS POST.			

Location Reference Marks						
Description			Azimuth	Distance		AZ Mark Station
				Meters	Feet	
MK # 1	NBC IN 4" PERSIMMON		336	14.91	48.9	90510002
MK # 2	NBC IN 4" PERSIMMON		321	13.62	44.7	37 19 25
MK # 3	NBC IN POWER POLE		246	9.86	32.4	38 06 58

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Old PN: 90510001 NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510002	Date Monumented 9/11/1990	Monumented By AHTD	County NEWTON	Route 43	Job Number: R90034
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	194,311.1910	
Easting (M)	277,452.5860	
Elevation (M)*		
Northing (SFT)	637,502.6325	
Easting (SFT)	910,275.6926	
Elevation (SFT)*		

Convergence Angle	0	47	30.1770814
Scale Factor	0.999972855		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	278	11.37	37.3
MK # 2	NBC IN TOP OF FENCE POST	305	19.84	65.1
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BURLINGTON RESET	Old point number 90510002. NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 4 37.6961124
Longitude	93 21 38.0604096
Ellipsoid Height (M):	
Geoid Height (M):	-28.708

Location Description
<p>FROM THE JCT. OF HWY. 103 AND HWY. 43, GO 0.20 MILES NORTH ON HWY. 43 TO THE STATION ON THE LEFT. THE STATION IS 36.5 FEET LEFT OF THE CENTERLINE OF HWY. 43, 39.8 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF A HOUSE AND 1.6 FEET EAST OF A WITNESS POST.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510003	Date Monumented 9/12/1990	Monumented By AHTD	County NEWTON	Route 103	Job Number: R90034
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	194,045.5879	
Easting (M)	275,469.4170	
Elevation (M)*		
Northing (SFT)	636,631.2330	
Easting (SFT)	903,769.2456	
Elevation (SFT)*		

Convergence Angle	0	48	16.2083835
Scale Factor	0.999972459		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 12" RED OAK	10	11.80	38.7
MK # 2	NBC IN 12" HICKORY	30	30.53	100.2
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BURLINGTON RESET Ref Mon # 2 NONE Ref Mon # 3 NONE	Old point number 90510003 NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.

Location Description	
GO NORTH ON HWY. 103 FOR 1.4 MILES, THEN RIGHT 0.10 MILES ON A FIELD ROAD TO THE STATION ON THE RIGHT. THE STATION IS 9 FEET NORTH OF THE CENTERLINE OF A PRIVATE ROAD AND 1.7 FEET SOUTH OF A WITNESS POST.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510004	Date Monumented 9/12/1990	Monumented By AHTD	County NEWTON	Route 103	Job Number: R90034
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	194,223.0970	
Easting (M)	275,403.1610	
Elevation (M)*		
Northing (SFT)	637,213.6107	
Easting (SFT)	903,551.8707	
Elevation (SFT)*		

Convergence Angle	0	48	17.8070918
Scale Factor	0.999972697		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NONE		0	0.00	0.0
MK # 2	NONE		0	0.00	0.0
MK # 3	NONE		0	0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BURLINGTON RESET	Old point number 90510004. NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

Location Description

THE STATION IS 0.1 MILES NORTHWEST FROM AHTD GPS STATION 90510003 IN A PASTURE, 115 FEET NORTHWEST OF A POND LEVEE, 110 FEET SOUTHEAST OF A FENCE AND 4.7 FEET EAST OF A WITNESS POST .

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510005	Date Monumented 9/12/1990	Monumented By AHTD	County NEWTON	Route 103	Job Number: R90034
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	195,833.5129	
Easting (M)	273,834.5330	
Elevation (M)*		
Northing (SFT)	642,497.1169	
Easting (SFT)	898,405.4637	
Elevation (SFT)*		

Convergence Angle	0	48	54.8173937
Scale Factor	0.999974870		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NONE		0	0.00	0.0
MK # 2	NONE		0	0.00	0.0
MK # 3	NONE		0	0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="BURLINGTON RESET"/> Ref Mon # 2 <input type="text" value="NONE"/> Ref Mon # 3 <input type="text" value="NONE"/>	Old point number 90510005 NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.

Location Description	
FROM THE JCT. OF HWY. 43 AND HWY. 103, GO 4.1 MILES ON HWY. 103 TO THE STATION ON THE RIGHT. THE STATION IS 200 FEET WEST OF A CROSS FENCE AND 200 FEET SOUTH OF A POWER POLE.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510006	Date Monumented 9/12/1990	Monumented By AHTD	County NEWTON	Route 103	Job Number: R90034
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas North</td> <td>301</td> </tr> <tr> <td>Horizontal Datum</td> <td>NAD 83 (1986)</td> </tr> <tr> <td>Northing (M)</td> <td>195,998.1760</td> </tr> <tr> <td>Easting (M)</td> <td>273,653.0630</td> </tr> <tr> <td>Elevation (M)*</td> <td></td> </tr> <tr> <td>Northing (SFT)</td> <td>643,037.3491</td> </tr> <tr> <td>Easting (SFT)</td> <td>897,810.0909</td> </tr> <tr> <td>Elevation (SFT)*</td> <td></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Convergence Angle</td> <td>0 48</td> <td>59.0926897</td> </tr> <tr> <td>Scale Factor</td> <td colspan="2">0.999975095</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td colspan="2"></td> </tr> <tr> <td>Combined Adjust. Factor</td> <td colspan="2"></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;">SUPERCEDED CONTROL</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas North	301	Horizontal Datum	NAD 83 (1986)	Northing (M)	195,998.1760	Easting (M)	273,653.0630	Elevation (M)*		Northing (SFT)	643,037.3491	Easting (SFT)	897,810.0909	Elevation (SFT)*		Convergence Angle	0 48	59.0926897	Scale Factor	0.999975095		Elevation Adjust. Factor			Combined Adjust. Factor			Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Vertical Determined By:</td> <td>NONE</td> </tr> <tr> <td>Elevation Datum:</td> <td>NONE</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td>36 5 30.6946896</td> </tr> <tr> <td>Longitude</td> <td>93 24 10.8628524</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.687</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center;">Location Description</p> <p>FROM THE JCT. OF HWY. 43 AND HWY. 103, GO 4.1 MILES ON HWY. 103 TO THE STATION ON THE RIGHT. THE STATION IS IN THE WEST END OF THE SAME FIELD AS AHTD GPS STATION 90510005, 103.0 FEET FROM A POWER POLE.</p> </div>	Vertical Determined By:	NONE	Elevation Datum:	NONE	Geoid Datum:		Latitude	36 5 30.6946896	Longitude	93 24 10.8628524	Ellipsoid Height (M):		Geoid Height (M):	-28.687
Zone	Zone Code																																																								
Arkansas North	301																																																								
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Longitude	93 24 10.8628524																																																								
Ellipsoid Height (M):																																																									
Geoid Height (M):	-28.687																																																								

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN 4" SWEET GUM	255		22.78	74.7
MK # 2	NBC IN 4" SWEET GUM	221		22.29	73.1
MK # 3	NONE	0		0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 BURLINGTON RESET</p> <p>Ref Mon # 2 NONE</p> <p>Ref Mon # 3 NONE</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Comments</p> <p>Old point number 90510006 NOT ALL BASELINES OBSERVED & NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.</p> </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510007	Date Monumented 6/26/1996	Monumented By AHTD	County NEWTON	Route 65	Job Number: R90098
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	193,902.9030	
Easting (M)	314,750.5860	
Elevation (M)*	385.055	
Northing (SFT)	636,163.1076	
Easting (SFT)	1,032,644.2142	
Elevation (SFT)*	1,263.301	

Convergence Angle	0	33	2.6833824
Scale Factor	0.999972893		
Elevation Adjust. Factor	0.9999395760		
Combined Adjust. Factor	0.9999124706		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	4	22.91	75.2
MK # 2	WOODEN FENCE POST	223	1.65	5.4
MK # 3	CONCRETE RIGHT OF WAY MARKER	312	13.43	44.1

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>VERONA</td> </tr> <tr> <td>Ref Mon # 2</td> <td>BURLINGTON</td> </tr> <tr> <td>Ref Mon # 3</td> <td>640002</td> </tr> </table>	Ref Mon # 1	VERONA	Ref Mon # 2	BURLINGTON	Ref Mon # 3	640002	<table style="width: 100%;"> <tr> <td style="width: 100%;">Comments</td> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Ref Mon # 1	VERONA								
Ref Mon # 2	BURLINGTON								
Ref Mon # 3	640002								
Comments									

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	36 4 38.6267304
Longitude	92 56 47.2630236
Ellipsoid Height (M):	356.138
Geoid Height (M):	-28.917

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65, 65B AND STATE HWY-123 IN WESTERN GROVE, GO SOUTH ON HWY-65 FOR 2.09 KM. (1.30 MI.) TO THE STATION ON THE RIGHT. 9.12 METERS SOUTHWEST OF THE CENTER OF HWY-65 AND 1.26 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "510007 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510008	Date Monumented 6/26/1996	Monumented By AHTD	County NEWTON	Route 65	Job Number: 0098, Mobile LiDAR-CLS, 090
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	196,509.0011	
Easting (M)	313,489.5704	
Elevation (M)*	340.468	
Northing (SFT)	644,713.2811	
Easting (SFT)	1,028,507.0322	
Elevation (SFT)*	1,117.019	

Convergence Angle	0	33	32.6009187
Scale Factor	0.999976484		
Elevation Adjust. Factor	0.9999465723		
Combined Adjust. Factor	0.9999230576		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	36	6	2.7914400
Longitude	92	57	38.6737416
Ellipsoid Height:	311.538		
Grid Northing (Meters)	196,509.3300		
Grid Easting (Meters)	313,489.6460		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CEDAR FENCE POST	281	3.04	10.0
MK # 2	CONCRETE RIGHT OF WAY MARKER	233	0.61	2.0
MK # 3	CEDAR FENCE POST	157	4.96	16.3

Area Reference Monuments (used for Processing) Ref Mon # 1 VERONA Ref Mon # 2 BURLINGTON Ref Mon # 3 640002	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>THE ELEVATION BY 3-WIRE USING USC&GS BENCE MARK "J 130 1935" ELEVATION = 350.852 METERS</td> </tr> </table>	Comments	THE ELEVATION BY 3-WIRE USING USC&GS BENCE MARK "J 130 1935" ELEVATION = 350.852 METERS
Comments			
THE ELEVATION BY 3-WIRE USING USC&GS BENCE MARK "J 130 1935" ELEVATION = 350.852 METERS			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510008A	Date Monumented 6/26/1996	Monumented By AHTD	County NEWTON	Route 65	Job Number: 0098, Mobile LiDAR-CLS, 090
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Vertical Determined By:</td> <td colspan="2">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2">Geoid96</td> </tr> <tr> <td>Latitude</td> <td>36</td> <td>6 19.0623960</td> </tr> <tr> <td>Longitude</td> <td>92</td> <td>57 39.2211720</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>307.692</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.236</td> <td></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality		Elevation Datum:	NAVD 88		Geoid Datum:	Geoid96		Latitude	36	6 19.0623960	Longitude	92	57 39.2211720	Ellipsoid Height (M):	307.692		Geoid Height (M):	-28.236	
Vertical Determined By:	LEVEL - Unkown Quality																						
Elevation Datum:	NAVD 88																						
Geoid Datum:	Geoid96																						
Latitude	36		6 19.0623960																				
Longitude	92		57 39.2211720																				
Ellipsoid Height (M):	307.692																						
Geoid Height (M):	-28.236																						
Horizontal Datum NAD 83 (1997)																							
Northing (M)	197,010.9392																						
Easting (M)	313,480.8478																						
Elevation (M)*	335.957																						
Northing (SFT)	646,360.0564																						
Easting (SFT)	1,028,478.4148																						
Elevation (SFT)*	1,102.219																						

Convergence Angle	0	33	32.9177837
Scale Factor	0.999977198		
Elevation Adjust. Factor	0.9999472802		
Combined Adjust. Factor	0.9999244794		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	36	6	19.0732500
Longitude	92	57	39.2178960
Ellipsoid Height:	307.023		
Grid Northing (Meters)	197,011.2730		
Grid Easting (Meters)	313,480.9330		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65, 65B AND STATE HWY-123 IN WESTERN GROVE, GO NORTH ON HWY-65 FOR 1.45 KM. (0.90 MI.) TO THE STATION ON THE LEFT. 54.0 METERS SOUTH OF THE CENTER OF A FIELD ENTRANCE, 17.85 METERS WEST OF THE CENTER OF HWY-65 AND 0.93 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "510008A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks											
Description		Azimuth	Distance								
			Meters	Feet							
MK # 1	WOODEN FENCE POST	186	12.10	39.7	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">AZ Mark Station</td> <td>510008</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>178 26 46.6888</td> </tr> <tr> <td>Grid Azimuth</td> <td>179 00 19.60669</td> </tr> </table>	AZ Mark Station	510008	Geodetic Azimuth	178 26 46.6888	Grid Azimuth	179 00 19.60669
AZ Mark Station	510008										
Geodetic Azimuth	178 26 46.6888										
Grid Azimuth	179 00 19.60669										
MK # 2	WOODEN FENCE POST	359	24.90	81.7							
MK # 3	NONE										

Area Reference Monuments (used for Processing)	Comments						
<table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>VERONA</td> </tr> <tr> <td>Ref Mon # 2</td> <td>BURLINGTON</td> </tr> <tr> <td>Ref Mon # 3</td> <td>640002</td> </tr> </table>	Ref Mon # 1	VERONA	Ref Mon # 2	BURLINGTON	Ref Mon # 3	640002	<p>THE ELEVATION BY 3-WIRE USING USC&GS BENCE MARK "J 130 1935" ELEVATION = 350.852 METERS</p>
Ref Mon # 1	VERONA						
Ref Mon # 2	BURLINGTON						
Ref Mon # 3	640002						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510009	Date Monumented 12/16/2002	Monumented By AHTD	County NEWTON	Route 7	Job Number: 090169, 009784
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 192,410.9590		Latitude 36 3 44.3170404
Easting (M) 297,546.0780		Longitude 93 8 14.1509760
Elevation (M)* 256.634		Ellipsoid Height (M): 228.477
		Geoid Height (M): -28.157

Northing (SFT) 631,268.2880		
Easting (SFT) 976,199.0909		
Elevation (SFT)* 841.974		

Convergence Angle 0 39 42.3828830		
Scale Factor 0.999970665		
Elevation Adjust. Factor 0.9999597274		
Combined Adjust. Factor 0.9999303935		

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Description

TO REACH THE STATION FROM THE BOONE / NEWTON COUNTY LINE ON HIGHWAY 7 SOUTH OF HARRISON, GO SOUTH ON STATE HIGHWAY 7 FOR 5.00 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.75 METERS EAST OF THE CENTER OF STATE HIGHWAY 7, 7.00 METERS NORTH OF THE EDGE OF AN ASPHALT PULL IN, 7.00 METERS WEST OF THE CENTER OF A GRAVEL ROAD TO SHADDOX CEMETERY, AND 0.70 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "510009 2002" SET ON TOP OF AN IRON ROD 0.63 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POST OF HIGHWAY STOP SIGN	160	3.55	11.6	510009A
MK # 2					213 22 06
MK # 3					214 01 49

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HAR 1, Russport	Elevation by S5103 by 3-wire from NGS Point N 18.
Ref Mon # 2 Butler, Conway Mo. CORS	
Ref Mon # 3 Fayetteville, Muscogee Ok. CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510009A	Date Monumented 12/16/2002	Monumented By AHTD	County NEWTON	Route 7	Job Number: 090169, 009784
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 192,158.5950		Latitude 36 3 36.0657144
Easting (M) 297,375.6630		Longitude 93 8 20.8436424
Elevation (M)* 249.991		Ellipsoid Height (M): 221.835
		Geoid Height (M): -28.156

Northing (SFT) 630,440.3238		
Easting (SFT) 975,639.9877		
Elevation (SFT)* 820.179		

Convergence Angle 0 39 46.2773397		
Scale Factor 0.999970332		
Elevation Adjust. Factor 0.9999607698		
Combined Adjust. Factor 0.9999311030		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks				
Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 COMBINATION POLE	81	2.55	8.4	AZ Mark Station 510009
MK # 2 COMBINATION POLE	223	17.15	56.3	Geodetic Azimuth 33 22 02
MK # 3				Grid Azimuth 34 01 49

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD HAR 1, Russport Ref Mon # 2 Butler, Conway Mo. CORS Ref Mon # 3 Fayetteville, Muscogee Ok. CORS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Comments</td> </tr> <tr> <td>Elevation by S5103 by 3-wire from NGS Point N 18.</td> </tr> </table>	Comments	Elevation by S5103 by 3-wire from NGS Point N 18.
Comments			
Elevation by S5103 by 3-wire from NGS Point N 18.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510010	Date Monumented 10/14/2003	Monumented By AHTD	County NEWTON	Route CR 46	Job Number: 090169
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	184,147.1109	
Easting (M)	296,540.2070	
Elevation (M)*		
Northing (SFT)	604,155.9797	
Easting (SFT)	972,898.9958	
Elevation (SFT)*		

Convergence Angle	0	40	3.5314237
Scale Factor	0.999960667		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL T-POST PAINTED PURPLE	147	8.65	28.4
MK # 2	4" BLAZED PINE TREE	597.7		
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 W H PHILLIPS Ref Mon # 2 510009 Ref Mon # 3	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 74, IN JASPER, GO EAST ON HIGHWAY 74 FOR 3.45 MILES TO A CROSSROADS. TURN RIGHT (SOUTH) ON A GRAVEL ROAD HERE AND GO 1.65 MILES TO THE STATION ON THE RIGHT, 7.5 METERS WEST OF A 4' NETWORK 1 BARB T-POST FENCE AND WEST 7.4 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "510010 2003" ON TOP OF A 0.70 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	510010A
Geodetic Azimuth	193 46 35
Grid Azimuth	194 26 39

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510010A	Date Monumented 10/14/2003	Monumented By AHTD	County NEWTON	Route CR 46	Job Number: 090169
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	183,979.5629	
Easting (M)	296,497.0510	
Elevation (M)*		
Northing (SFT)	603,606.2826	
Easting (SFT)	972,757.4082	
Elevation (SFT)*		

Convergence Angle	0	40	4.4885400
Scale Factor	0.999960481		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WHITE BLAZED 4" ELM	138.5	10.40	34.1	
MK # 2	WHITE BLAZED 16" WHITE OAK	20	27.20	89.2	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 W H PHILLIPS Ref Mon # 2 510009 Ref Mon # 3	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 59 10.3804476
Longitude	93 8 52.1397888
Ellipsoid Height (M):	370.069
Geoid Height (M):	-28.103

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 74, IN JASPER, GO EAST ON HIGHWAY 74 FOR 3.45 MILES TO A CROSSROADS. TURN RIGHT (SOUTH) ON A GRAVEL ROAD HERE AND GO 1.75 MILES TO THE STATION IN THE CENTERLINE OF THE ROAD, 6.5 METERS WEST OF A 4' NETWIRE 2 BARB T-POST FENCE AND WEST 6.35 METERS OF A WITNESS POST AND EAST 5.55 METERS OF ANOTHER WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "510010A 2003" ON TOP OF A 0.52 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	510010
Geodetic Azimuth	13 46 34
Grid Azimuth	14 26 39

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510011	Date Monumented 1/1/2003	Monumented By AHTD	County Newton	Route 7	Job Number: 090157
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	155,374.7389	
Easting (M)	301,014.2540	
Elevation (M)*		
Northing (SFT)	509,758.6225	
Easting (SFT)	987,577.5983	
Elevation (SFT)*		

Convergence Angle	0	38	12.1733862
Scale Factor	0.999939110		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	359	7.47	24.5
MK # 2	Wooden corner fence post	209	2.13	7.0
MK # 3	Service pole with light	255	6.40	21.0

Area Reference Monuments (used for Processing) Ref Mon # 1 W H Phillips Ref Mon # 2 ARFY Ref Mon # 3 Tri County	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description	
To reach the station from the junction of highways 7, 16 and 123 in the small town of "Sand Gap" in the northern edge of Pope county, go north on hwy-7 for 0.50 miles crossing into Newton county to the station on the left. 33.0 feet west of the center of hwy-7, 16.0 feet north of the center of a paved driveway and 1.50 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "510011" set on top of a 5/8 inch by 4.0 foot long rebar and is driven flush with the ground.	

AZ Mark Station	510011A
Geodetic Azimuth	6 37 59
Grid Azimuth	7 16 11

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510011A	Date Monumented 1/1/2003	Monumented By AHTD	County Newton	Route 7	Job Number: 090157
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	155,825.9430	
Easting (M)	301,071.8130	
Elevation (M)*		
Northing (SFT)	511,238.9480	
Easting (SFT)	987,766.4398	
Elevation (SFT)*		

Convergence Angle	0	38	10.9566694
Scale Factor	0.999939292		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	15	35.36	116.0
MK # 2	15 inch Pine tree on the right of way	69	11.83	38.8
MK # 3	National Forest boundry marker	116	13.66	44.8

Area Reference Monuments (used for Processing) Ref Mon # 1 Tri County Ref Mon # 2 W H Phillips Ref Mon # 3 ARFY	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 43 58.6326324
Longitude	93 5 37.0340304
Ellipsoid Height (M):	630.161
Geoid Height (M):	-28.008

Location Description
<p>To reach the station from the junction of highways 7, 16 and 123 in the small town of "Sand Gap" in the northern edge of Pope county, go north on hwy-7 for 0.80 miles crossing into Newton county to the station on the right. 19.0 feet east of the center of hwy-7 and 41.3 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "510011A" set on top of a 5/8 inch by 4.0 foot long rebar and is driven flush with the ground.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510012	Date Monumented 1/1/2003	Monumented By AHTD	County Newton	Route 7	Job Number: 090157
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	160,598.2569	
Easting (M)	302,080.8200	
Elevation (M)*		
Northing (SFT)	526,896.1145	
Easting (SFT)	991,076.8236	
Elevation (SFT)*		

Convergence Angle	0	37	48.8077770
Scale Factor	0.999941520		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	East end of concrete culvert with rock headwall	294	5.33	17.5	
MK # 2	Telephone riser	118	37.19	122.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Tri County Ref Mon # 2 W H Phillips Ref Mon # 3 ARFY	

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 46 33.8355624
Longitude	93 4 58.9709172
Ellipsoid Height (M):	592.740
Geoid Height (M):	-27.964

Location Description
<p>The station is located 248.0 feet south of the northern most junction of highways 7 and 123 in the "V" formed by the road's intersection near the small village of Lurton. 47.0 feet east of the center of hwy-7 25.5 feet west of the center of hwy-123 and 1.50 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "510012" set on top of a 5/8 inch by 4.0 foot long rebar and is driven flush with the ground. Elevation on this station was arrived at by digital leveling from BM TT 72 TX PID FG0973</p>

AZ Mark Station	510012A
Geodetic Azimuth	143 31 54
Grid Azimuth	144 09 43

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510012A	Date Monumented 1/1/2003	Monumented By AHTD	County Newton	Route 123	Job Number: 090157
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	160,128.6640	
Easting (M)	302,419.9770	
Elevation (M)*		
Northing (SFT)	525,355.4585	
Easting (SFT)	992,189.5412	
Elevation (SFT)*		

Convergence Angle	0	37	40.8308142
Scale Factor	0.999941278		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Power Pole	315	27.74	91.0	AZ Mark Station 510012
MK # 2	Power Pole	170	28.35	93.0	Geodetic Azimuth 323 32 02
MK # 3	SW end of CMP Culvert	128	39.32	129.0	Grid Azimuth 324 09 43

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Tri County	
Ref Mon # 2 W H Phillips	
Ref Mon # 3 ARFY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510013	Date Monumented 1/1/2003	Monumented By AHTD	County Newton	Route 7	Job Number: 090157
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	161,415.7600	
Easting (M)	299,345.0270	
Elevation (M)*		
Northing (SFT)	529,578.2059	
Easting (SFT)	982,101.1427	
Elevation (SFT)*		

Convergence Angle	0	38	52.4055221
Scale Factor	0.999941941		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	SW end 18" Culvert	128	31.09	102.0		
MK # 2	18" Elm tree	229	11.52	37.8		
MK # 3	Forest Service Rd. #1208 Sign Post	355	13.41	44.0		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Tri County	
Ref Mon # 2 W H Phillips	
Ref Mon # 3 ARFY	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 46 59.3697576
Longitude	93 6 48.2643360
Ellipsoid Height (M):	569.927
Geoid Height (M):	-27.973

Location Description
<p>To reach the station from Jct. SR-7 & SR-123 located North of the Pope / Nweton county line. From the Northern most "Y" on SR-123, go North on SR-7 for 1.90 miles to the station on the Left. 27.8 feet SE of Forest Service Rd. #1208 (Gravel Road). 1.5 feet NE of a witness post. 88 feet SW of the centerline on SR-7. The station is a standard 2.5 inch aluminum cap stamped "510013 - 2003" set on top of a 4 foot rebar and driven flush with the ground. The station is just South of the "Who-Da Thought it" store.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510013A	Date Monumented 1/1/2003	Monumented By AHTD	County Newton	Route 7	Job Number: 090157
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	161,665.9029	
Easting (M)	299,315.2190	
Elevation (M)*		
Northing (SFT)	530,398.8831	
Easting (SFT)	982,003.3477	
Elevation (SFT)*		

Convergence Angle	0	38	53.1617456
Scale Factor	0.999942078		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18" oak tree	313	13.11	43.0
MK # 2	Cable marker	356	39.32	129.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Tri County	
Ref Mon # 2 W H Phillips	
Ref Mon # 3 ARFY	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 47 7.4748048
Longitude	93 6 49.5639144
Ellipsoid Height (M):	578.446
Geoid Height (M):	-27.972

Location Description
<p>To reach the station from Jct. SR-7 & SR-123 located North of the Pope / Nweton county line. From the Northern most "Y" on SR-123, go North on SR-7 for 2.90 miles to the station on the Left. 14.3 feet E of a witness post. 31 feet W of the centerline on SR-7. The station is a standard 2.5 inch aluminum cap stamped "510013A - 2003" set on top of a 4 foot rebar and driven flush with the ground.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510014	Date Monumented 1/1/2003	Monumented By AHTD	County Newton	Route 7	Job Number: 090157
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	164,890.3659	
Easting (M)	296,725.7330	
Elevation (M)*		
Northing (SFT)	540,977.8088	
Easting (SFT)	973,507.6757	
Elevation (SFT)*		

Convergence Angle	0	39	54.0296208
Scale Factor	0.999943963		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone riser	231	23.77	78.0
MK # 2	Metal gate post	040	8.08	26.5
MK # 3	7" pine tree on R/W	058	27.43	90.0

Area Reference Monuments (used for Processing) Ref Mon # 1 Tri County Ref Mon # 2 W H Phillips Ref Mon # 3 ARFY	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description
To reach the station from SR-7 South & SR-16 West, (South of Jasper) go South on SR-7 for 4.50 miles to the station on the left. 20.5 feet SW of centerline of a field road. 1.5 feet from a witness post. 36 feet NW of centerline of SR-7. The station is a standard 2.5 inch aluminum cap stamped "510014 - 2003" and set on top of a 4 foot rebar and driven 0.20 feet below the surface of the ground.

AZ Mark Station	510014A
Geodetic Azimuth	258 00 20
Grid Azimuth	258 40 14

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510014A	Date Monumented 1/1/2003	Monumented By AHTD	County Newton	Route 7	Job Number: 090157
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	164,802.2600	
Easting (M)	296,285.9770	
Elevation (M)*		
Northing (SFT)	540,688.7480	
Easting (SFT)	972,064.9095	
Elevation (SFT)*		

Convergence Angle	0	40	4.1990022
Scale Factor	0.999943904		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Power pole	228	29.87	98.0	
MK # 2	Telephone riser	290	30.48	100.0	
MK # 3	Water vale@sign	103	8.23	27.0	

Area Reference Monuments (used for Processing) Ref Mon # 1 Tri County Ref Mon # 2 W H Phillips Ref Mon # 3 ARFY	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description	
To reach the station from SR-7 South & SR-16 West, (South of Jasper) go South on SR-7 for 4.10 miles to the station on the left. 4 feet SE of a witness post. 32 feet NE of centerline of SR-7. The station is a standard 2.5 inch aluminum cap stamped "510014A - 2003" and set on top of a 4 foot rebar and driven 0.20 feet below the surface of the ground.	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 48 48.1058640
Longitude	93 8 51.6422148
Ellipsoid Height (M):	601.112
Geoid Height (M):	-27.961

AZ Mark Station	510014
Geodetic Azimuth	78 00 10
Grid Azimuth	78 40 14

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510015	Date Monumented 1/1/2003	Monumented By AHTD	County Nweton	Route 7	Job Number: 090157
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	169,092.3590	
Easting (M)	292,034.5260	
Elevation (M)*		
Northing (SFT)	554,763.8478	
Easting (SFT)	958,116.6074	
Elevation (SFT)*		

Convergence Angle	0	41	43.9497749
Scale Factor	0.999946785		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	N/A	000	0.00	0.0	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	
Ref Mon # 1	Tri County
Ref Mon # 2	W H Phillips
Ref Mon # 3	ARFY

Comments

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 51 5.6560644
Longitude	93 11 43.0650060
Ellipsoid Height (M):	634.349
Geoid Height (M):	-27.931

Location Description
<p>To reach the station from jct. of SR-7 & SR-16 West, (South of Jasper), go South on SR-7 for 500 feet (chained distance) from the Northern most triangle of the two highways to the station located between SR-7 & SR-16. 53 feet West of centerline of SR-7. 32 feet East of centerline of SR-16. 1.5 feet E of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510015 - 2003" and set on top of a 4 foot rebar and driven 0.20 feet below the surface of the ground.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510015A	Date Monumented 1/1/2003	Monumented By AHTD	County Nweton	Route 7	Job Number: 090157
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	169,485.1570	
Easting (M)	292,087.3570	
Elevation (M)*		
Northing (SFT)	556,052.5526	
Easting (SFT)	958,289.9371	
Elevation (SFT)*		

Convergence Angle	0	41	42.8351646
Scale Factor	0.999947075		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Telephone riser	053	44.50	146.0	
MK # 2	North end of 15" CMP culvert	189	30.48	100.0	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 Tri County Ref Mon # 2 W H Phillips Ref Mon # 3 ARFY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 51 18.4210200
Longitude	93 11 41.1495360
Ellipsoid Height (M):	644.135
Geoid Height (M):	-27.932

Location Description
To reach the station from jct. of SR-7 & SR-16 West, (South of Jasper), go North on SR-7 for 1.80 miles to the station on the left. 21 feet West of centerline of SR-7. 32 feet East of centerline of SR-16. 10 feet E of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510015A - 2003" and set on top of a 4 foot rebar and driven 0.20 feet below the surface of the ground.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510016	Date Monumented 1/1/2003	Monumented By AHTD	County Newton	Route 7	Job Number: 090157
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	175,423.8330	
Easting (M)	292,952.9840	
Elevation (M)*		
Northing (SFT)	575,536.3588	
Easting (SFT)	961,129.9150	
Elevation (SFT)*		

Convergence Angle	0	41	24.4194181
Scale Factor	0.999951925		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	024	15.24	50.0
MK # 2	Combination pole	187	19.51	64.0
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>Tri County</td> </tr> <tr> <td>Ref Mon # 2</td> <td>W H Phillips</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARFY</td> </tr> </table>	Ref Mon # 1	Tri County	Ref Mon # 2	W H Phillips	Ref Mon # 3	ARFY	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	Tri County						
Ref Mon # 2	W H Phillips						
Ref Mon # 3	ARFY						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 54 31.4369028
Longitude	93 11 9.5018748
Ellipsoid Height (M):	614.234
Geoid Height (M):	-27.971

Location Description
<p>To reach the station from SR-7 North & SR-16 West, (South of Jasper) go North on SR-7 for 4.40 miles to the station on the right atop a bluff above the level of SR-7 (Approximately 8-10 feet) in an area that used to a roadside park, at the North end of a picket fence and old sign with rock border. 40 feet E of centerline of SR-7. 1.5 feet W of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510016 - 2003" set on top of a 4 foot rebar and driven 0.20 feet below the surface of the ground.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510016A	Date Monumented 1/1/2003	Monumented By AHTD	County Newton	Route 7	Job Number: 090157
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	175,048.3019	
Easting (M)	292,840.3980	
Elevation (M)*		
Northing (SFT)	574,304.3038	
Easting (SFT)	960,760.5391	
Elevation (SFT)*		

Convergence Angle	0	41	26.9270593
Scale Factor	0.999951592		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	North end of 18" CMP culvert	238	6.10	20.0
MK # 2	Combination pole	195	23.16	76.0
MK # 3	Wood fence corner	150	3.05	10.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Tri County	
Ref Mon # 2 W H Phillips	
Ref Mon # 3 ARFY	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 54 19.2091032
Longitude	93 11 13.8112836
Ellipsoid Height (M):	614.465
Geoid Height (M):	-27.967

Location Description
<p>To reach the station from SR-7 North & SR-16 West, (South of Jasper) go North on SR-7 for 4.20 miles to the station on the right atop a ridge line along the highway in front of an RV park. 35 feet N of centerline of asphalt driveway. 32.5 feet E of centerline of SR-7. 1.5 feet W of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510016A - 2003" set on top of a 4 foot rebar and driven 0.20 feet below the surface of the ground.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510017	Date Monumented 1/1/2003	Monumented By AHTD	County Newton	Route 7	Job Number: 090157
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	178,550.7680	
Easting (M)	294,955.3510	
Elevation (M)*		
Northing (SFT)	585,795.3113	
Easting (SFT)	967,699.3474	
Elevation (SFT)*		

Convergence Angle	0	40	38.8095323
Scale Factor	0.999954848		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Flag pole	177	10.45	34.3	
MK # 2	Power pole with transformer	219	18.90	62.0	
MK # 3					

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>Tri County</td> </tr> <tr> <td>Ref Mon # 2</td> <td>W H Phillips</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARFY</td> </tr> </table>	Ref Mon # 1	Tri County	Ref Mon # 2	W H Phillips	Ref Mon # 3	ARFY	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	Tri County						
Ref Mon # 2	W H Phillips						
Ref Mon # 3	ARFY						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 56 13.6626396
Longitude	93 9 51.1207884
Ellipsoid Height (M):	594.377
Geoid Height (M):	-28.017

Location Description
To reach the station from jct. SR-7 & SR-374, (South of Jasper) go South on SR-7 for 2.40 miles to the station on the right in the ditch in front of the "Gum Springs" church. 122 feet NW of church gravel driveway. 26 feet SW of centerline of SR-7. 1.5 feet NE of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510017 - 2003" set on top of a 4 foot rebar and driven flush with the ground.

AZ Mark Station	510017A
Geodetic Azimuth	133 27 11
Grid Azimuth	134 07 50

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510017A	Date Monumented 1/1/2003	Monumented By AHTD	County Newton	Route 7	Job Number: 090157
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	178,328.1829	
Easting (M)	295,184.7960	
Elevation (M)*		
Northing (SFT)	585,065.0467	
Easting (SFT)	968,452.1182	
Elevation (SFT)*		

Convergence Angle	0	40	33.4220665
Scale Factor	0.999954636		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Twin cedar tree	001	4.72	15.5
MK # 2	4" cedar tree	111	3.66	12.0
MK # 3	Sign post	125	16.92	55.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Tri County	
Ref Mon # 2 W H Phillips	
Ref Mon # 3 ARFY	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 56 6.5290200
Longitude	93 9 41.8623696
Ellipsoid Height (M):	603.173
Geoid Height (M):	-28.018

Location Description
<p>To reach the station from jct. SR-7 & SR-374, (South of Jasper) go South on SR-7 for 2.60 miles to the station on the left. 73 feet North of centerline of driveway. 34 feet SW of centerline of SR-7. 1.5 feet NE of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510017A - 2003" set on top of a 4 foot rebar and driven 0.20 feet below the ground.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510018	Date Monumented 1/1/2003	Monumented By AHTD	County Newton	Route 7	Job Number: 090157, 090288
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	181,716.0790	
Easting (M)	296,119.3340	
Elevation (M)*		
Northing (SFT)	596,180.1692	
Easting (SFT)	971,518.1816	
Elevation (SFT)*		

Convergence Angle	0	40	12.6474981
Scale Factor	0.999958047		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	290	24.38	80.0
MK # 2	Electric pedestal	355	19.20	63.0
MK # 3	Electric pedestal	074	18.90	62.0

Area Reference Monuments (used for Processing) Ref Mon # 1 Tri County Ref Mon # 2 W H Phillips Ref Mon # 3 ARFY	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description
To reach the station from jct. SR-7 & SR-374 (South of Jasper), go South on SR-7 for 0.10 miles to a gravel road (Town Ln.) on the left, turn left on Town Ln. and go West for 0.10 miles through a left and right turn to the station on the right of the gravel road along side a barbed wire fence. 11 feet N of centerline of gravel road (Town Ln.). 1.5 feet N of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510018 - 2003" set on top of a 4 foot rebar and driven flush with the surface of the ground.

AZ Mark Station	510018A	
Geodetic Azimuth	211 55 33	
Grid Azimuth	212 35 45	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510018A	Date Monumented 1/1/2003	Monumented By AHTD	County Newton	Route 7	Job Number: 090157
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	181,447.5279	
Easting (M)	295,947.6150	
Elevation (M)*		
Northing (SFT)	595,299.0978	
Easting (SFT)	970,954.8002	
Elevation (SFT)*		

Convergence Angle	0	40	16.5622685
Scale Factor	0.999957765		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NW corner rock wall	210	6.86	22.5
MK # 2	NE corner rock wall	136	15.70	51.5
MK # 3	Hotel sign base rock	046	33.83	111.0

Area Reference Monuments (used for Processing) Ref Mon # 1 Tri County Ref Mon # 2 W H Phillips Ref Mon # 3 ARFY	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 57 48.0236256
Longitude	93 9 12.8886228
Ellipsoid Height (M):	632.020
Geoid Height (M):	-28.042

Location Description
To reach the station from jct. SR-7 & SR-374 (South of Jasper), go South on SR-7 for 0.20 miles to the station on the left in front of an old hotel / restaurant complex. 145 feet E of centerline of driveway leading to a water tower. 39 feet SE of centerline of SR-7. 6 feet SW of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510018A - 2003" set on top of a 4 foot rebar and driven flush with the surface of the ground.

AZ Mark Station	510018
Geodetic Azimuth	31 55 29
Grid Azimuth	32 35 45

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510020	Date Monumented 10/30/2003	Monumented By AHTD	County NEWTON	Route 7	Job Number: 090221
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	196,072.8050	
Easting (M)	298,222.3900	
Elevation (M)*	320.144	
Northing (SFT)	643,282.1944	
Easting (SFT)	978,417.9579	
Elevation (SFT)*	1,050.339	

Convergence Angle	0	39	27.6352001
Scale Factor	0.999975641		
Elevation Adjust. Factor	0.9999497615		
Combined Adjust. Factor	0.9999254037		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 050032, 050032A Ref Mon # 2 510009, 510009A Ref Mon # 3 ARHR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Comments</th> </tr> <tr> <td colspan="2" style="height: 100px; vertical-align: top;"> 3-Wire Levels ran from 2nd NGS marks N 18 & TT 107 TX by crew S5102 in Nov. 2007. </td> </tr> </table>	Comments		3-Wire Levels ran from 2nd NGS marks N 18 & TT 107 TX by crew S5102 in Nov. 2007.	
Comments					
3-Wire Levels ran from 2nd NGS marks N 18 & TT 107 TX by crew S5102 in Nov. 2007.					

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF THE NORTH END OF THE BUFFALO RIVER BRIDGE AND STATE HIGHWAY 7, NORTH OF JASPER, GO NORTH ON HIGHWAY 7 2.75 MILES TO TO THE STATION ON THE RIGHT JUST SOUTH OF A GRAVEL ROAD. 25 FEET EAST OF THE CENTER OF THE ROAD AND 1.50 FEET WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "510020 2003" ON TOP OF A 0.50 METER ION ROD DRIVEN .02 METERS SUBSURFACE.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510020A	Date Monumented 10/30/2003	Monumented By AHTD	County NEWTON	Route 7	Job Number: 090221
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	196,359.0409	
Easting (M)	298,025.0450	
Elevation (M)*	324.285	
Northing (SFT)	644,221.2867	
Easting (SFT)	977,770.5018	
Elevation (SFT)*	1,063.926	

Convergence Angle	0	39	32.3021782
Scale Factor	0.999976040		
Elevation Adjust. Factor	0.9999491116		
Combined Adjust. Factor	0.9999251529		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing) Ref Mon # 1 510009, 510009A Ref Mon # 2 050032, 050032A Ref Mon # 3 ARHR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels ran from 2nd NGS marks N 18 & TT 107 TX by crew S5102 in Nov. 2007.</td> </tr> </table>	Comments	3-Wire Levels ran from 2nd NGS marks N 18 & TT 107 TX by crew S5102 in Nov. 2007.
Comments			
3-Wire Levels ran from 2nd NGS marks N 18 & TT 107 TX by crew S5102 in Nov. 2007.			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND THE NORTH END OF THE BUFFALO RIVER BRIDGE, NORTH OF JASPER, GO NORTH ON HIGHWAY 7 FOR 3.05 MILES TO THE STATION ON THE LEFT, NORTHWEST 21.70 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "510020A 2003" ON TOP OF A 0.50 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	510020
Geodetic Azimuth	144 45 25
Grid Azimuth	145 24 57

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510020X	Date Monumented 2/18/2009	Monumented By AHTD	County Newton	Route 7	Job Number: 090157
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	184,815.4329	
Easting (M)	293,553.9580	
Elevation (M)*		
Northing (SFT)	606,348.6328	
Easting (SFT)	963,101.6105	
Elevation (SFT)*		

Convergence Angle	0	41	13.0862124
Scale Factor	0.999961371		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	South end of guardrail	159	5.94	19.5
MK # 2	Manhole access	201	7.32	24.0
MK # 3	Corner concrete ditch	300	17.07	56.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Tri County	This station replaced 510019 which was in this area but was destroyed.
Ref Mon # 2 ARFY	
Ref Mon # 3 W H Phillips	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510021	Date Monumented 3/8/2011	Monumented By AHTD	County Newton	Route 103	Job Number: 090304
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	193,629.8930	
Easting (M)	274,480.3680	
Elevation (M)*	550.432	
Northing (SFT)	635,267.4073	
Easting (SFT)	900,524.3407	
Elevation (SFT)*	1,805.876	

Convergence Angle	0	48	39.0708318
Scale Factor	0.999971884		
Elevation Adjust. Factor	0.9999136267		
Combined Adjust. Factor	0.9998855132		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center of gate	278	4.27	14.0
MK # 2	36" CMP culvert	144	21.34	70.0
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	W H Phillips, P 277
Ref Mon # 2	ARFY, ARBT
Ref Mon # 3	ARHR

Comments

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 4 14.2450392
Longitude	93 23 36.4550712
Ellipsoid Height (M):	522.566
Geoid Height (M):	-27.866

Location Description
<p>To reach from the Newton and Carroll county lines on Highway 103, go southwest on Highway 103 for 4.8 miles to the station on the right, 37 feet south of the centerline of highway 103 and 3.5 feet north of a witness post. The station mark is a standard 2 1/2" cap stamped "510021 2011" and set on top of a 4 foot long rebar driven 0.2 feet below ground level.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 510021A	Date Monumented 3/8/2011	Monumented By AHTD	County Newton	Route 103	Job Number: 090304
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	193,583.5549	
Easting (M)	274,885.1930	
Elevation (M)*	578.533	
Northing (SFT)	635,115.3797	
Easting (SFT)	901,852.5040	
Elevation (SFT)*	1,898.070	

Convergence Angle	0	48	29.6423167
Scale Factor	0.999971830		
Elevation Adjust. Factor	0.9999092175		
Combined Adjust. Factor	0.9998810501		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Northwest Fence Corner	252	26.82	88.0
MK # 2	18" by 38" arched cmp w/ Flared end section	75	65.23	214.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 W H Phillips, P 277	
Ref Mon # 2 ARFY, ARBT	
Ref Mon # 3 ARHR	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 4 12.9273276
Longitude	93 23 20.2520652
Ellipsoid Height (M):	550.664
Geoid Height (M):	-27.869

Location Description
<p>To reach from the intersection of the Newton and Carroll county lines on Highway 103, go southwest on Highway 103 in Newton county for 4.8 miles to the station on the right, 22 feet south of the centerline of Highway 103, 17 feet north of a witness post, and 17 feet north of a fence. The station mark is a standard 2 1/2" cap stamped "510021A 2011" ans set on top of a 4 foot long rebar driven 0.2 feet below ground level.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 520001	Date Monumented 6/21/1995	Monumented By AHTD	County OUACHITA	Route 57	Job Number: 070046
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	483,065.8701	
Easting (M)	300,579.7480	
Elevation (M)*	75.456	
Northing (SFT)	1,584,858.6088	
Easting (SFT)	986,152.0566	
Elevation (SFT)*	247.559	

Convergence Angle	0	35	53.6642607
Scale Factor	0.999977263		
Elevation Adjust. Factor	0.9999881586		
Combined Adjust. Factor	0.9999654219		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE POLE	230	23.40	76.8	
MK # 2	TELEPHONE JUNCTION BOX	163	28.15	92.4	
MK # 3	NONE				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BEECH 1950 Ref Mon # 2 K 204 1960 Ref Mon # 3 NONE	JOB NO. 070068 USES SAME S.A.F.

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 24 39.2828220

Longitude 93 4 7.9544352

Ellipsoid Height (M): 48.445

Geoid Height (M): -27.011

Location Description

FROM THE JCT. OF HWY. 57 AND HWY. 79 IN THE SMALL VILLAGE OF STEPHENS JUST SOUTHWEST OF CAMDEN, GO EASTERLY ON HWY. 57 FOR 0.15 KM (0.09 MILES) CROSSING OVER A RAILROAD OVERPASS TO THE STATION ON THE LEFT IN A SMALL PARKING AREA. THE STATION IS 28.20 METERS NORTH OF THE CENTER OF HWY. 57, 32.0 METERS WEST OF THE CENTER OF CANNON STREET AND 1.00 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "520001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 520001A	Date Monumented 6/21/1995	Monumented By AHTD	County OUACHITA	Route N/A	Job Number: 070046
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 483,354.4911		Latitude 33 24 48.7245852
Easting (M) 300,798.1390		Longitude 93 3 59.6188368
Elevation (M)* 69.784		Ellipsoid Height (M): 42.772
		Geoid Height (M): -27.012

Northing (SFT) 1,585,805.5262		
Easting (SFT) 986,868.5610		
Elevation (SFT)* 228.950		

Convergence Angle 0 35 48.9989039		
Scale Factor 0.999976770		
Elevation Adjust. Factor 0.9999890487		
Combined Adjust. Factor 0.9999658190		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

FROM THE JCT. OF HWY. 57 AND HWY. 79 IN THE SMALL VILLAGE OF STEPHENS JUST SOUTHWEST OF CAMDEN, GO EASTERLY ON HWY. 57 FOR 0.16 KM (0.10 MILES) TO THE JCT. WITH "NORTH CANNON STREET" ON THE LEFT, TURN LEFT AND NORTH ON "CANNON STREET" AND GO 0.096 KM (0.06 MILES) TO THE JCT. WITH "EAST CHERT STREET" ON THE RIGHT AND A GRAVEL ENTRANCE ON THE LEFT, TURN LEFT ON THE GRAVEL ROAD AND TRAVEL PARALLEL TO THE RAILROAD TRACKS FOR 0.25 KM (0.16 MILES) TO THE STATION ON THE LEFT BETWEEN THE GRAVEL ROAD AND THE RAILROAD TRACKS. THE STATION IS 6.60 METERS SOUTHEAST OF THE SOUTHERN MOST RAIL OF THE SOUTHERN MOST TRACK, 28.4 METERS SOUTH OF THE SOUTHEAST END OF A RAILROAD BRIDGE RETAINING WALL AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "520001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					520001
MK # 2	NONE					216 30 59.90907
MK # 3	NONE					217 06 48.94561

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 BEECH 1950</p> <p>Ref Mon # 2 K 204 1960</p> <p>Ref Mon # 3 NONE</p>	<p style="text-align: center;">Comments</p> <p>JOB NO. 070068 USES SAME S.A.F.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 520002	Date Monumented 6/21/1995	Monumented By AHTD	County OUACHITA	Route 278	Job Number: 070200, 070068
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	500,780.0012	
Easting (M)	320,904.6890	
Elevation (M)*	38.859	
Northing (SFT)	1,642,975.7206	
Easting (SFT)	1,052,834.8005	
Elevation (SFT)*	127.490	

Convergence Angle	0	28	36.5970536
Scale Factor	0.999950780		
Elevation Adjust. Factor	0.9999939018		
Combined Adjust. Factor	0.9999446821		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>THE STATION IS LOCATED AT THE JUNCTION OF U.S. HIGHWAY 278 AND "CASH ROAD" ON THE SOUTHWEST SIDE OF CAMDEN AT A SOUTHWEST ANGLE FROM THE INTERSECTION. THE STATION IS 13.10 METERS SOUTH OF THE SOUTH EDGE OF THE ASPHALT EASTBOUND LANES OF U.S. HIGHWAY 278, 55.60 METERS WEST OF THE CENTER OF "CASH ROAD", AND 0.93 METERS NORTH OF A WITNESS POST SET IN A CHAIN LINK FENCE LINE. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "520002 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY APPLYING THE VERTCON PROGRAM SHIFT TO THE PREVIOUS NGVD29 ELEVATION. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.</p>				

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	2" CHAIN LINK FENCE POST		284	3.90	12.8
MK # 2	2" CHAIN LINK FENCE POST		160	3.10	10.2
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 S 197</p> <p>Ref Mon # 2 Magnolia 2</p> <p>Ref Mon # 3 AHTD Hope 1</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 520002A	Date Monumented 6/21/1995	Monumented By AHTD	County OUACHITA	Route 278	Job Number: 070200, 070068
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	501,070.1512	
Easting (M)	320,722.0170	
Elevation (M)*	38.664	
Northing (SFT)	1,643,927.6544	
Easting (SFT)	1,052,235.4841	
Elevation (SFT)*	126.850	

Convergence Angle	0	28	40.6139091
Scale Factor	0.999950417		
Elevation Adjust. Factor	0.9999939324		
Combined Adjust. Factor	0.9999443497		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THIS STATION FROM THE JUNCTION OF U.S. HIGHWAY 278 AND "CASH ROAD" ON THE SOUTHWEST SIDE OF CAMDEN, GO WEST ON U.S. HIGHWAY 278 0.24 MILES TO THE STATION ON THE RIGHT IN FRONT OF "BROOKSHIRES" GROCERY STORE. THE STATION IS 20.0 METERS NORTH OF THE CENTERLINE OF THE WEST BOUND LANES OF U.S. HIGHWAY 278, 76.70 METERS WEST OF AN ACCESS ROAD TO THE GROCERY STORE AND 0.94 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "520002A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT USING THE VERTCON PROGRAM SHIFT TO THE PREVIOUS NGVD29 ELEVATION. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 S 197</p> <p>Ref Mon # 2 Magnolia 2</p> <p>Ref Mon # 3 AHTD Hope 1</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 520003	Date Monumented 4/22/2002	Monumented By AHTD	County OUACHITA	Route 79	Job Number: 070200
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	499,084.7602	
Easting (M)	320,448.0240	
Elevation (M)*		
Northing (SFT)	1,637,413.9174	
Easting (SFT)	1,051,336.5587	
Elevation (SFT)*		

Convergence Angle	0	28	46.1996479
Scale Factor	0.999952956		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	REINFORCED CONCRETE PIPE	222	30.00	98.4
MK # 2	TELEPHONE JUNCTION BOX	35	25.40	83.3
MK # 3	LIGHT POLE	2	26.00	85.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 S 197 Ref Mon # 2 Magnolia 2 Ref Mon # 3 AHTD Hope 1	

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 33 33 25.2824184

Longitude 92 51 24.2029152

Ellipsoid Height (M): 11.846

Geoid Height (M): -26.191

Location Description

TO REACH THE STATION FROM THE A.H.T.D. DISTRICT 7 HEADQUARTERS ENTRANCE IN CAMDEN, GO NORTH ON U.S. HIGHWAY 79 FOR 1.78 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.40 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 79, 10.00 METERS SOUTHEAST OF THE CENTER OF A GRAVEL ROAD, AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "520003 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 520003A	Date Monumented 4/22/2002	Monumented By AHTD	County OUACHITA	Route 79	Job Number: 070200
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	498,681.6882	
Easting (M)	320,034.1240	
Elevation (M)*		
Northing (SFT)	1,636,091.5054	
Easting (SFT)	1,049,978.6218	
Elevation (SFT)*		

Convergence Angle	0	28	55.1068767
Scale Factor	0.999953487		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	49	10.60	34.8	
MK # 2	POWER POLE	225	22.60	74.1	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	S 197
Ref Mon # 2	Magnolia 2
Ref Mon # 3	AHTD Hope 1

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 33 33 12.0868488

Longitude 92 51 40.1174712

Ellipsoid Height (M): 16.133

Geoid Height (M): -26.192

Location Description

TO REACH THE STATION FROM THE A.H.T.D. DISTRICT 7 HEADQUARTERS ENTRANCE IN CAMDEN, GO NORTH ON U.S. HIGHWAY 79 FOR 1.39 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.20 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "520003 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 520004	Date Monumented 9/14/2011	Monumented By AHTD	County OUACHITA	Route 79	Job Number: 070366
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	483,411.1535	
Easting (M)	296,026.6959	
Elevation (M)*	69.962	
Northing (SFT)	1,585,991.4261	
Easting (SFT)	971,214.2515	
Elevation (SFT)*	229.534	

Convergence Angle	0	37	32.3675205
Scale Factor	0.999976760		
Elevation Adjust. Factor	0.9999890208		
Combined Adjust. Factor	0.9999657811		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH 2 GUYS	310	7.92	26.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Elev. established by S5112 in January of 2012 by Digital Levels from GPS # 140007. Elev. established on GPS #140007 by S5102 in May of 2008 by 3-Wire Levels from 1st Order NGS BM B 120 under Job #070301.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 520004A	Date Monumented 9/14/2011	Monumented By AHTD	County OUACHITA	Route 79	Job Number: 070366
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	483,446.5308	
Easting (M)	296,498.5719	
Elevation (M)*	60.177	
Northing (SFT)	1,586,107.4931	
Easting (SFT)	972,762.3980	
Elevation (SFT)*	197.431	

Convergence Angle	0	37	22.1544357
Scale Factor	0.999976692		
Elevation Adjust. Factor	0.9999905564		
Combined Adjust. Factor	0.9999672486		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER BRICK AND FRAME HOUSE	187	23.47	77.0
MK # 2	NORTHWEST CORNER CONCRETE PAD	145	13.41	44.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Elev. established by S5112 in January of 2012 by Digital Levels from GPS # 140007. Elev. established on GPS #140007 by S5102 in May of 2008 by 3-Wire Levels from 1st Order NGS BM B 120 under Job #070301.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 520005	Date Monumented 9/14/2011	Monumented By AHTD	County OUACHITA	Route 79	Job Number: 070366
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	483,178.1667	
Easting (M)	300,557.9784	
Elevation (M)*	75.824	
Northing (SFT)	1,585,227.0352	
Easting (SFT)	986,080.6341	
Elevation (SFT)*	248.766	

Convergence Angle	0	35	54.1612083
Scale Factor	0.999977073		
Elevation Adjust. Factor	0.9999881009		
Combined Adjust. Factor	0.9999651742		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY AND LIGHT	125	21.43	70.3
MK # 2	NORTHWEST CORNER OF BRICK BUILDING	220	20.97	68.8
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM Stephens Bolt under Job #070366.</td> </tr> </table>	Comments	Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM Stephens Bolt under Job #070366.
Comments			
Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM Stephens Bolt under Job #070366.			

Location Description
TO REACH THE STATION MARK IS LOCATED AT THE INTERSECTION OF STATE HIGHWAY 57S AND 79 IN STEPHENS, SOUTHWEST 109.0 FEET FROM CENTERLINE OF HIGHWAY 57S, SOUTHEAST 37.0 FEET FROM CENTERLINE OF HIGHWAY 79. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "520005 2011" SET ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	520005A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 520005A	Date Monumented 9/14/2011	Monumented By AHTD	County OUACHITA	Route 79	Job Number: 070366
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	483,580.2447	
Easting (M)	300,858.9730	
Elevation (M)*	67.296	
Northing (SFT)	1,586,546.1862	
Easting (SFT)	987,068.1473	
Elevation (SFT)*	220.786	

Convergence Angle	0	35	47.7320783
Scale Factor	0.999976388		
Elevation Adjust. Factor	0.9999894392		
Combined Adjust. Factor	0.9999658275		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	191	5.85	19.2
MK # 2	COMBINATION POLE WITH GUY	28	8.47	27.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM Stephens Bolt under Job #070366.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 520006	Date Monumented 9/14/2011	Monumented By AHTD	County OUACHITA	Route 79	Job Number: 070366
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	487,300.4582	
Easting (M)	303,071.5882	
Elevation (M)*	62.176	
Northing (SFT)	1,598,751.5866	
Easting (SFT)	994,327.3690	
Elevation (SFT)*	203.991	

Convergence Angle	0	35	0.6233878
Scale Factor	0.999970250		
Elevation Adjust. Factor	0.9999902426		
Combined Adjust. Factor	0.9999604929		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 & K 204 under Job #070366. <div style="height: 100px; border: 1px solid black;"></div>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 520006A	Date Monumented 9/14/2011	Monumented By AHTD	County OUACHITA	Route 79	Job Number: 070366
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	487,661.8340	
Easting (M)	303,495.8921	
Elevation (M)*	72.228	
Northing (SFT)	1,599,937.2004	
Easting (SFT)	995,719.4393	
Elevation (SFT)*	236.967	

Convergence Angle	0	34	51.5079548
Scale Factor	0.999969668		
Elevation Adjust. Factor	0.9999886653		
Combined Adjust. Factor	0.9999583336		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE WITH LIGHT AND GUY	244	66.00	216.5	520006
MK # 2	SOUTHEAST CORNER OF MT. ZINA BAPTIST CHURCH	303	70.60	231.6	
MK # 3					
					Geodetic Azimuth
					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 & K 204 under Job #070366.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 520007	Date Monumented 9/14/2011	Monumented By AHTD	County OUACHITA	Route 79	Job Number: 070366
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	490,184.8783	
Easting (M)	306,996.1265	
Elevation (M)*	84.595	
Northing (SFT)	1,608,214.8882	
Easting (SFT)	1,007,203.1250	
Elevation (SFT)*	277.542	

Convergence Angle	0	33	36.1877044
Scale Factor	0.999965694		
Elevation Adjust. Factor	0.9999867244		
Combined Adjust. Factor	0.9999524189		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	315	12.80	42.0	520007A
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 & K 204 under Job #070366.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 520007A	Date Monumented 9/14/2011	Monumented By AHTD	County OUACHITA	Route 79	Job Number: 070366
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	490,320.1204	
Easting (M)	307,463.3104	
Elevation (M)*	84.225	
Northing (SFT)	1,608,658.5950	
Easting (SFT)	1,008,735.8775	
Elevation (SFT)*	276.328	

Convergence Angle	0	33	26.0889947
Scale Factor	0.999965482		
Elevation Adjust. Factor	0.9999867826		
Combined Adjust. Factor	0.9999522650		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	CABLE MARKER	57	21.95	72.0	520007
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 & K 204 under Job #070366.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 520008	Date Monumented 9/14/2011	Monumented By AHTD	County OUACHITA	Route 79	Job Number: 070366
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	492,051.9298	
Easting (M)	311,501.9489	
Elevation (M)*	81.010	
Northing (SFT)	1,614,340.3730	
Easting (SFT)	1,021,985.9773	
Elevation (SFT)*	265.779	

Convergence Angle	0	31	58.8903841
Scale Factor	0.999962831		
Elevation Adjust. Factor	0.9999872871		
Combined Adjust. Factor	0.9999501186		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 & K 204 under Job #070366.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 520008A	Date Monumented 9/14/2011	Monumented By AHTD	County OUACHITA	Route 79	Job Number: 070366
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	492,258.2192	
Easting (M)	311,847.4356	
Elevation (M)*	77.320	
Northing (SFT)	1,615,017.1742	
Easting (SFT)	1,023,119.4616	
Elevation (SFT)*	253.676	

Convergence Angle	0	31	51.4411251
Scale Factor	0.999962522		
Elevation Adjust. Factor	0.9999878660		
Combined Adjust. Factor	0.9999503885		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	520008
			Meters	Feet		
MK # 1					Geodetic Azimuth Grid Azimuth	
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 & K 204 under Job #070366.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530001	Date Monumented 12/23/1991	Monumented By AHTD	County PERRY	Route 10	Job Number: R80025
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	77,149.2941	
Easting (M)	304,379.3150	
Elevation (M)*		
Northing (SFT)	253,113.9757	
Easting (SFT)	998,617.8026	
Elevation (SFT)*		

Convergence Angle	0	36	34.9802773
Scale Factor	0.999983390		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks								
Description			Azimuth		Distance			
					Meters	Feet		
MK # 1	NBC IN TELEGRAPH POLE	27			23.43	76.9		
MK # 2	NBC IN POWER POLE	230			28.32	92.9		
MK # 3	NBC IN R/R CROSSING SIGN POLE	290			20.20	66.3		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT	OLD PN: 91530001
Ref Mon # 2 JEANPORT	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530001A	Date Monumented 12/23/1991	Monumented By AHTD	County PERRY	Route 10	Job Number: R80025
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	77,181.5140	
Easting (M)	304,694.4410	
Elevation (M)*		
Northing (SFT)	253,219.6838	
Easting (SFT)	999,651.6785	
Elevation (SFT)*		

Convergence Angle	0	36	27.7549252
Scale Factor	0.999983336		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TELEGRAPH POLE	280	29.16	95.7
MK # 2	NBC IN R/R CROSSING SIGN	24	15.19	49.8
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT	OLD PN: 91530001A
Ref Mon # 2 JEANPORT	
Ref Mon # 3 NONE	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 1 28.0917588
Longitude	93 2 39.6807072
Ellipsoid Height (M):	80.283
Geoid Height (M):	-29.390

Location Description
<p>AT CASA, TURN NORTH AT THE MAIN INTERSECTION AND GO TO THE FIRST STREET ON THE RIGHT, TURN AND GO EAST 0.25 MILES TO THE STATION ON THE LEFT. THE STATION IS 114 FEET NORTH OF CENTERLINE OF THE STREET, 15 FEET SOUTH OF THE R/R TRACK, 45 FEET WEST OF A NORTH-SOUTH STREET AND 1.6 FEET SOUTH OF A WITNESS POST.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530002	Date Monumented 12/23/1991	Monumented By AHTD	County PERRY	Route 10	Job Number: R80025
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	76,962.5830	
Easting (M)	308,188.7940	
Elevation (M)*		
Northing (SFT)	252,501.4077	
Easting (SFT)	1,011,116.0683	
Elevation (SFT)*		

Convergence Angle	0	35	7.4958135
Scale Factor	0.999983615		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN FENCE POST	93	17.70	58.1
MK # 2	NBC IN POWER POLE	36	30.42	99.8
MK # 3	NBC IN POWER POLE	266	90.76	297.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT	OLD PN: 91530002
Ref Mon # 2 JEANPORT	
Ref Mon # 3 NONE	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 1 22.1684052
Longitude	93 0 21.7545480
Ellipsoid Height (M):	85.128
Geoid Height (M):	-29.318

Location Description
<p>FROM THE YELL AND PERRY COUNTY LINE, GO EAST ON HWY. 10 FOR 5.90 MILES TO THE STATION ON THE RIGHT. THE STATION IS 39 FEET SOUTH OF THE CENTERLINE OF HWY. 10, 125 FEET SOUTH OF THE CENTERLINE OF THE R/R TRACK, 215 FEET SOUTHWEST OF A CROSSDRAIN, 135 FEET NORTHEAST OF THE NORTHEAST CORNER OF A BRICK HOUSE AND 1.75 FEET NORTH OF A WITNESS POST.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530002A	Date Monumented 12/23/1991	Monumented By AHTD	County PERRY	Route 10	Job Number: R80025
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 76,947.6131		Geoid Datum:
Easting (M) 308,475.6720		Latitude 35 1 21.7776180
Elevation (M)* 		Longitude 93 0 10.4325984
Northing (SFT) 252,452.2940		Ellipsoid Height (M): 86.531
Easting (SFT) 1,012,057.2672		Geoid Height (M): -29.312
Elevation (SFT)* 		

Convergence Angle 0 35 0.9075809	Location Description FROM THE YELL AND PERRY COUNTY LINE, GO EAST 6.08 MILES TO THE STATION ON RIGHT. THE STATION IS 121 FEET SOUTH CENTERLINE OF HWY. 10, 213 FEET SOUTH OF THE CENTERLINE OF THE R/R TRACK, 112 FEET SOUTHWEST OF THE SOUTH END OF AN 18" RCP CROSSDRAIN, 165 FEET SOUTHEAST OF A FIELD ENTRANCE AND 80.69 FEET SOUTH OF A WITNESS POST.
Scale Factor 0.999983633	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL	
Horizontal Datum 	
Latitude 	
Longitude 	
Ellipsoid Height: 	
Grid Northing (Meters) 	
Grid Easting (Meters) 	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN TOP OF GATE POST	282	48.17	158.0	AZ Mark Station 91530002
MK # 2	NBC IN TOP OF BRACE POST	24	35.20	115.5	Geodetic Azimuth 272 24 13
MK # 3	NONE	0	0.00	0.0	Grid Azimuth 272 59 14

Area Reference Monuments (used for Processing) Ref Mon # 1 RUSSPORT Ref Mon # 2 JEANPORT Ref Mon # 3 NONE	Comments OLD PN: 91530002A
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530003	Date Monumented 12/23/1991	Monumented By AHTD	County PERRY	Route 10	Job Number: R80025
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	78,239.8650	
Easting (M)	314,516.9130	
Elevation (M)*		
Northing (SFT)	256,691.9571	
Easting (SFT)	1,031,877.5721	
Elevation (SFT)*		

Convergence Angle	0	32	42.5239839
Scale Factor	0.999981588		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TOP OF FENCE POST	91	7.11	23.3
MK # 2	NBC IN COMBINATION POLE	269	9.52	31.2
MK # 3	NBC IN COMBINATION POLE	336	25.30	83.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT	OLD PN: 91530003
Ref Mon # 2 JEANPORT	
Ref Mon # 3 NONE	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 2 5.6404068
Longitude	92 56 12.6188772
Ellipsoid Height (M):	96.215
Geoid Height (M):	-29.213

Location Description
<p>AT THE JCT. OF HWY. 10 AND HWY. 324 THE STATION IS 41 FEET SOUTH OF CENTERLINE OF HWY. 10, 147 FEET NORTHEAST OF THE NORTHEAST CORNER OF A WHITE ONE STORY FRAME HOUSE, 15 FEET NORTHEAST OF A FENCE CORNER AND 2.3 FEET NORTH OF A WITNESS POST.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530003A	Date Monumented 12/23/1991	Monumented By AHTD	County PERRY	Route 324	Job Number: R80025
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 78,512.4451		Geoid Datum:
Easting (M) 314,541.3080		Latitude 35 2 14.4928176
Elevation (M)* 		Longitude 92 56 11.7587544
Northing (SFT) 257,586.2470		Ellipsoid Height (M): 91.919
Easting (SFT) 1,031,957.6080		Geoid Height (M): -29.217
Elevation (SFT)* 		

Convergence Angle 0 32 42.0234791	Location Description FROM THE JCT. OF HWY. 10 AND HWY. 324, GO NORTH ON HWY. 324 TO A R/R CROSSING, THEN NORTH 130 FEET TO THE STATION ON THE RIGHT. THE STATION IS 46 FEET EAST OF THE CENTERLINE OF HWY. 324, 35 FEET NORTHEAST OF A FIELD ENTRANCE, 376 FEET SOUTHWEST OF A CROSSDRAIN AND 4.92 FEET EAST OF A WITNESS POST.
Scale Factor 0.999981181	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NBC IN GATE POST	189	7.05	23.1	91530003
MK # 2	NBC IN GATE POST	198	21.71	71.2	184 34 09
MK # 3	NBC IN GATE POST	270	26.23	86.0	185 06 51

Area Reference Monuments (used for Processing) Ref Mon # 1 RUSSPORT Ref Mon # 2 JEANPORT Ref Mon # 3 NONE	Comments OLD PN: 91530003A
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530004A	Date Monumented 10/19/1994	Monumented By AHTD	County PERRY	Route 10	Job Number: R80026
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	78,204.2581	
Easting (M)	318,143.2710	
Elevation (M)*	119.601	
Northing (SFT)	256,575.1368	
Easting (SFT)	1,043,775.0483	
Elevation (SFT)*	392.391	

Convergence Angle	0	31	19.2671794
Scale Factor	0.999981591		
Elevation Adjust. Factor	0.9999812311		
Combined Adjust. Factor	0.9999628224		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TEN INCH PINE TREE	205	18.20	59.7
MK # 2	TELEPHONE JUNCTION BOX	171	9.90	32.5
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT	Cross Reference Job: R80025 HORIZONTAL DISTANCE BETWEEN 530004 & 530004A BY E.D.M. = 375.546 METERS
Ref Mon # 2 JEANPORT	
Ref Mon # 3 91530003 AHTD	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530005	Date Monumented 10/19/1994	Monumented By AHTD	County PERRY	Route 10	Job Number: R80026
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	79,301.8221	
Easting (M)	322,978.7680	
Elevation (M)*	101.538	
Northing (SFT)	260,176.0613	
Easting (SFT)	1,059,639.5080	
Elevation (SFT)*	333.129	

Convergence Angle	0	29	28.4754621
Scale Factor	0.999979900		
Elevation Adjust. Factor	0.9999840656		
Combined Adjust. Factor	0.9999639660		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FOUR INCH METAL RAIL ROAD XING SIGN POST	75	23.00	75.5
MK # 2	POWER POLE	93	28.40	93.2
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT Ref Mon # 2 JEANPORT Ref Mon # 3 91530003 AHTD	Cross Reference Job: R80025 HORIZONTAL DISTANCE BY E.D.M. BETWEEN 530005 & 530005A = 514.004 METERS

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF HWY-10 & HWY-9 IN THE SMALL TOWN OF PERRY GO WEST ON HWY-10 FOR 4.79 KM. (2.98 MI.) TO THE STATION ON THE RIGHT, 16.0 METERS NORTH OF THE CENTERLINE OF HWY-10, 18.30 METERS WEST OF A GRAVEL ROAD LEADING NORTH, 7.0 METERS SOUTH OF THE SOUTH RAIL OF THE RAILROAD TRACK AND 4.30 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD CAP STAMPED "530005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530006	Date Monumented 10/19/1994	Monumented By AHTD	County PERRY	Route 9	Job Number: R80026
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 79,659.1961		Latitude 35 2 55.4440560
Easting (M) 327,666.1250		Longitude 92 47 34.3099752
Elevation (M)*		Ellipsoid Height (M): 61.115
		Geoid Height (M): -28.966

Northing (SFT) 261,348.5459		
Easting (SFT) 1,075,017.9451		
Elevation (SFT)*		

Convergence Angle 0 27 40.9204857		
Scale Factor 0.999979320		
Elevation Adjust. Factor		
Combined Adjust. Factor		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN PERRY GO EAST ON HWY-10 FOR 0.08 KM.(0.05 MI.) TO THE JUNCTION OF HWY-10 & HWY-9, THE STATION IS NORTHEAST OF THIS JUNCTION ACROSS HWY-9 AND 7.60 METERS SOUTH OF THE SOUTH RAIL OF A SPUR TRACK,19.00 METERS EAST OF THE CENTERLINE OF HWY-9, 36.00 METERS NORTH OF THE CENTER OF CHOCTAW STREET, 32.50 METERS NORTHEAST OF F.A.P. MARKER # 69 AND 0.59 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD CAP STAMPED "530006" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	RAILROAD SIGNAL LIGHT POLE	264	13.96	45.8	530006A
MK # 2	NORTHWEST CORNER OF A CHAIN LINK FENCE	122	22.40	73.5	185 05 08.33420
MK # 3	NONE				185 32 49.26212

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT	Cross Reference Job: R80025 HORIZONTAL DISTANCE BY E.D.M. BETWEEN 530006 & 530006A = 556.246
Ref Mon # 2 JEANPORT	
Ref Mon # 3 91530003 AHTD	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530006A	Date Monumented 10/19/1994	Monumented By AHTD	County PERRY	Route 9	Job Number: R80026
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	79,105.5721	
Easting (M)	327,612.3590	
Elevation (M)*		
Northing (SFT)	259,532.1978	
Easting (SFT)	1,074,841.5478	
Elevation (SFT)*		

Convergence Angle	0	27	42.0525670
Scale Factor	0.999980132		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	184	23.00	75.5
MK # 2	CENTER OF BOX CULVERT HEADWALL	40	10.00	32.8
MK # 3	TEN INCH HOLLY BUSH	285	24.00	78.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT	Cross Reference Job: R80025 HORIZONTAL DISTANCE BY E.D.M. FROM 530006 TO 530006A = 556.246 METERS
Ref Mon # 2 JEANPORT	
Ref Mon # 3 91530003 AHTD	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	35 2 37.4653680
Longitude	92 47 36.2554692
Ellipsoid Height (M):	69.206
Geoid Height (M):	-28.958

Location Description
<p>TO REACH THE STATION FROM THE POST OFFICE IN PERRY GO EAST ON HWY-10 TO THE JUNCTION WITH HWY-9, GO RIGHT (SOUTH) ON HWY-9 FOR 0.49 KM. (0.31 MI.) TO THE STATION ON THE RIGHT. 11.20 METERS WEST OF THE CENTERLINE OF HWY-9, 15.20 METERS NORTH OF THE CENTER OF SIXTH AVENUE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK ISA STANDARD CAP STAMPED "530006A" SET ON TOP OF AN IRON ROD 1.22 METERS LONG ANDDRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	530006
Geodetic Azimuth	5 05 07.21701
Grid Azimuth	5 32 49.262115

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530007	Date Monumented 11/7/1994	Monumented By AHTD	County PERRY	Route 10	Job Number: 080051
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	60,937.5620	
Easting (M)	329,942.1990	
Elevation (M)*	121.981	
Northing (SFT)	199,925.9847	
Easting (SFT)	1,082,485.3646	
Elevation (SFT)*	400.199	

Convergence Angle	0	26	45.3141138
Scale Factor	1.000010886		
Elevation Adjust. Factor	0.9999808576		
Combined Adjust. Factor	0.9999917434		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	10" PINE TREE	97	19.30	63.3
MK # 2	6" WILLOW OAK	180	22.70	74.5
MK # 3	4" SHRUB	282	16.50	54.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: SALIPORT	
Ref Mon # 2: 530006	
Ref Mon # 3: NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530007A	Date Monumented 11/7/1994	Monumented By AHTD	County PERRY	Route 10	Job Number: 080051
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	60,746.6990	
Easting (M)	330,657.6640	
Elevation (M)*	124.069	
Northing (SFT)	199,299.7950	
Easting (SFT)	1,084,832.6860	
Elevation (SFT)*	407.050	

Convergence Angle	0	26	28.8868137
Scale Factor	1.000011241		
Elevation Adjust. Factor	0.9999805299		
Combined Adjust. Factor	0.9999917707		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	4" STEEL GATE POST	270	6.55	21.5
MK # 2	CENTER OF CONCRETE HEADWALL	310	8.00	26.2
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	SALIPOINT
Ref Mon # 2	530006
Ref Mon # 3	NONE

Comments

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NGVD 29

Geoid Datum:

Latitude 34 52 42.5139564

Longitude 92 45 30.5193240

Ellipsoid Height (M): 95.565

Geoid Height (M): -28.504

Location Description

FROM THE JCT. OF HWY. 9 AND HWY. 10 IN WILLIAMS JUNCTION SOUTH OF PERRYVILLE, GO EAST ON HWY. 10 FOR 1.40 KM (0.87 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.45 METERS SOUTH OF THE CENTERLINE OF HWY. 10, 9.70 METERS EAST OF A FIELD ENTRANCE AND 1.0 METER NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "530007A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530009	Date Monumented 11/7/1994	Monumented By AHTD	County PERRY	Route 9	Job Number: 080051
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 65,733.2511		Latitude 34 55 23.2761432
Easting (M) 326,589.7810		Longitude 92 48 12.2971248
Elevation (M)* 201.171		Ellipsoid Height (M): 172.465
		Geoid Height (M): -28.706

Northing (SFT) 215,659.8413		
Easting (SFT) 1,071,486.6398		
Elevation (SFT)* 660.009		

Convergence Angle 0 28 3.0251750		
Scale Factor 1.000002025		
Elevation Adjust. Factor 0.9999684307		
Combined Adjust. Factor 0.9999704556		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

FROM THE "OUACHITA NATIONAL FOREST WINONA WORK CENTER" IN THORNBURG JUST SOUTH OF PERRYVILLE, GO SOUTH ON HWY. 9 FOR 0.997 KM (0.62 MILES) TO THE STATION ON THE RIGHT ON TOP OF A POND LEVEE NEAR THE CENTER BY THE DRAIN OUTLET. THE STATION IS ABOUT 2.50 METERS WEST OF THE CENTER OF THE LEVEE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "530009" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	8" WOODEN POST	253	4.60	15.1
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SALIPOST	
Ref Mon # 2 530006	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530010	Date Monumented 3/11/1998	Monumented By AHTD	County PERRY	Route 60	Job Number: 80122, 080676
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	82,648.9467 0.0020
Easting (M)	350,383.3942 0.0020
Elevation (M)*	

Northing (SFT)	271,157.4193	
Easting (SFT)	1,149,549.5191	
Elevation (SFT)*		

Convergence Angle	0	18	59.6820300
Scale Factor	0.999974854		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	4	37.4646180
Longitude	92	32	38.5569564
Ellipsoid Height:	56.144		
Grid Northing (Meters)	82,648.9501		
Grid Easting (Meters)	350,383.3700		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL LIGHT POLE	354	2.20	7.2
MK # 2	METAL SUPPORT POST TO TRASH CAN	279	8.00	26.2
MK # 3	0.65 METER ELM TREE	143	24.80	81.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR (ROCKPORT)	SUPERCEDED GEOID HT. WAS -27.963m
Ref Mon # 2 ARRV (PJTC CAMPUS)	
Ref Mon # 3 ARSC (EARNHART HALE)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530011	Date Monumented 11/13/1998	Monumented By AHTD	County PERRY	Route 9	Job Number: 8825
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	65,492.3530	
Easting (M)	326,783.6170	
Elevation (M)*		
Northing (SFT)	214,869.4948	
Easting (SFT)	1,072,122.5834	
Elevation (SFT)*		

Convergence Angle	0	27	58.5364863
Scale Factor	1.000002456		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER FENCE POST	128	17.40	57.1
MK # 2	TELEPHONE JUNCTION BOX	135	28.75	94.3
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD LR1 Ref Mon # 2 RUSSPORT Ref Mon # 3 PJTC CAMPUS	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 55 15.5104788
Longitude	92 48 4.5832644
Ellipsoid Height (M):	175.773
Geoid Height (M):	-27.923

Location Description
FROM THE "OUACHITA NATIONAL FOREST WINONA WORK CENTER" IN THORNBURG JUST SOUTH OF PERRYVILLE, GO SOUTH ON HWY. 9 FOR 1.29 KM (0.80 MILES) TO THE STATION ON THE LEFT. THE STATION IS 18.10 METERS EAST-NORTHEAST OF THE CENTER OF STATE HIGHWAY 9 AND 2.60 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "530011 1998" SET ON TOP OF AN IRON ROD 0.63 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	530011A
Geodetic Azimuth	318 54 30.23052
Grid Azimuth	319 22 28.80326

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530011A	Date Monumented 11/13/1998	Monumented By AHTD	County PERRY	Route 9	Job Number: 8825
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	65,717.4310	
Easting (M)	326,590.5290	
Elevation (M)*		
Northing (SFT)	215,607.9382	
Easting (SFT)	1,071,489.0939	
Elevation (SFT)*		

Convergence Angle	0	28	3.0050687
Scale Factor	1.000002053		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	AHTD LR1
Ref Mon # 2	RUSSPORT
Ref Mon # 3	PJTC CAMPUS

Comments

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 34 55 22.7629956

Longitude 92 48 12.2625720

Ellipsoid Height (M): 173.310

Geoid Height (M): -27.935

Location Description

FROM THE "OUACHITA NATIONAL FOREST WINONA WORK CENTER" IN THORNBURG JUST SOUTH OF PERRYVILLE, GO SOUTH ON HWY. 9 FOR 0.997 KM (0.62 MILES) TO THE STATION ON THE RIGHT ON TOP OF A POND LEVEE NEAR THE CENTER BY THE DRAIN OUTLET. THE STATION IS ABOUT 45.00 METERS WEST OF THE CENTER OF STATE HIGHWAY 9, 2.50 METERS WEST OF THE CENTER OF THE LEVEE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "530011A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530012	Date Monumented 11/13/1998	Monumented By AHTD	County PERRY	Route 9	Job Number: 8825,080446
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	69,967.0432 0.0010
Easting (M)	327,381.9655 0.0020
Elevation (M)*	108.613
Northing (SFT)	229,550.2076
Easting (SFT)	1,074,085.6651
Elevation (SFT)*	356.341

Convergence Angle	0 27 45.6479166
Scale Factor	0.999994613
Elevation Adjust. Factor	0.9999829554
Combined Adjust. Factor	0.9999775685

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34 57 40.8672576		
Longitude	92 47 42.4344912		
Ellipsoid Height:	80.498		
Grid Northing (Meters)	69,967.0340		
Grid Easting (Meters)	327,381.9560		

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 60 EAST, LOCATED ON THE NORTH SIDE OF PERRYVILLE, GO SOUTH ON STATE HIGHWAY 9 FOR 5.47 KM (3.40 MI) TO THE JUNCTION OF STATE HIGHWAY 216 ON THE LEFT, CONTINUE SOUTH ON STATE HIGHWAY 9 FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.00 METERS EAST OF THE CENTER OF STATE HIGHWAY 9 AND 0.97 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "530012 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	IN LINE BRACE POST		167	22.70	74.5
MK # 2	0.20 METER PINE TREE		351	29.65	97.3
MK # 3					

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	AHTD LR1	<p>ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING IN DEC. 1998 BY S5101 FROM NGS 2ND ORDER BENCHMARK "3" LOCATED IN THE SOUTHWEST CORNER OF THE PERRY COUNTY COURTHOUSE. NAVD88 ELEVATION = 91.588 METERS. STATION P.I.D. = FG0412</p> <p style="text-align: right;">**NOTE: STATIC RE-DONE ON THIS POINT & ON GPS #530012A IN APRIL 2013 BY S5112 AFTER DISCOVERING BAD COORDINATES ON #530012A (ELEV. FROM DIGITAL</p>
Ref Mon # 2	RUSSPORT	
Ref Mon # 3	PJTC CAMPUS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530012A	Date Monumented 11/13/1998	Monumented By AHTD	County PERRY	Route 9	Job Number: 8825,080446
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	69,630.7587 0.0020
Easting (M)	327,388.2179 0.0040
Elevation (M)*	110.536
Northing (SFT)	228,446.9142
Easting (SFT)	1,074,106.1782
Elevation (SFT)*	362.650

Convergence Angle	0 27 45.4422330
Scale Factor	0.999995185
Elevation Adjust. Factor	0.9999826536
Combined Adjust. Factor	0.9999778387

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34 57 29.9533320		
Longitude	92 47 42.0812772		
Ellipsoid Height:	82.451		
Grid Northing (Meters)	69,630.6440		
Grid Easting (Meters)	327,388.2010		

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 60 EAST, LOCATED ON THE NORTH SIDE OF PERRYVILLE, GO SOUTH ON STATE HIGHWAY 9 FOR 5.47 KM (3.40 MI) TO THE JUNCTION OF STATE HIGHWAY 216 ON THE LEFT, CONTINUE SOUTH ON STATE HIGHWAY 9 FOR 0.56 KM (0.35 MI) TO THE STATION ON LEFT. THE STATION IS 11.35 METERS EAST OF THE CENTER OF STATE HIGHWAY 9 AND 0.93 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "530012A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	0.55 METER WILLOW OAK	36	18.00	59.1	
MK # 2	IN LINE BRACE POST	183	3.70	12.1	
MK # 3					

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	AHTD LR1	<p>ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING IN DEC. 1998 BY S5101 FROM NGS 2ND ORDER BENCHMARK "3" LOCATED IN THE SOUTHWEST CORNER OF THE PERRY COUNTY COURTHOUSE. NAVD88 ELEVATION = 91.588 METERS. STATION P.I.D. = FG0412 **NOTE: STATIC RE-DONE BY S5112 ON THIS POINT & RAN DIGITAL LEVELS FROM GPS 530012 & HELD IT FIXED IN APRIL 2013 & UPDATED ELEV. FOR JOB #080446</p>
Ref Mon # 2	RUSSPORT	
Ref Mon # 3	PJTC CAMPUS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530013A	Date Monumented 11/13/1998	Monumented By AHTD	County PERRY	Route 9	Job Number: 8825,080446
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	75,042.0641
Easting (M)	326,902.4010
Elevation (M)*	88.981
Northing (SFT)	246,200.5053
Easting (SFT)	1,072,512.2939
Elevation (SFT)*	291.932

Convergence Angle	0	27	57.5939941
Scale Factor	0.999986327		
Elevation Adjust. Factor	0.9999860362		
Combined Adjust. Factor	0.9999723634		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF HEADWALL	6	20.35	66.8
MK # 2	COMBINATION POLE	131	15.40	50.5
MK # 3	NORTHWEST CORNER OF MAC'S SPORTING GOODS	159	15.35	50.4

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>AHTD LR1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>RUSSPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>PJTC CAMPUS</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	AHTD LR1	Ref Mon # 2	RUSSPORT	Ref Mon # 3	PJTC CAMPUS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING IN DEC. 1998 BY S5101 FROM NGS 2ND ORDER BENCHMARK "3" LOCATED IN THE SOUTHWEST CORNER OF THE PERRY COUNTY COURTHOUSE. NAVD88 ELEVATION = 91.588 METERS. STATION P.I.D. = FG0412</td> </tr> </table>	Comments	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING IN DEC. 1998 BY S5101 FROM NGS 2ND ORDER BENCHMARK "3" LOCATED IN THE SOUTHWEST CORNER OF THE PERRY COUNTY COURTHOUSE. NAVD88 ELEVATION = 91.588 METERS. STATION P.I.D. = FG0412
Area Reference Monuments (used for Processing)											
Ref Mon # 1	AHTD LR1										
Ref Mon # 2	RUSSPORT										
Ref Mon # 3	PJTC CAMPUS										
Comments											
ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING IN DEC. 1998 BY S5101 FROM NGS 2ND ORDER BENCHMARK "3" LOCATED IN THE SOUTHWEST CORNER OF THE PERRY COUNTY COURTHOUSE. NAVD88 ELEVATION = 91.588 METERS. STATION P.I.D. = FG0412											

Location Description	
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 60 EAST, LOCATED ON THE NORTH SIDE OF PERRYVILLE, GO SOUTH ON STATE HIGHWAY 9 FOR 0.39 KM (0.24 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.00 METERS EAST OF THE CENTER OF STATE HIGHWAY 9 AND 1.36 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "530013A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 0 25.4214792
Longitude	92 48 2.9635812
Ellipsoid Height (M):	60.736
Geoid Height (M):	-28.243

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530014	Date Monumented 9/3/2002	Monumented By AHTD	County PERRY	Route 60	Job Number: 080256,080446
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas South</td> <td></td> </tr> <tr> <td colspan="2">Horizontal Datum</td> </tr> <tr> <td>Northing (M)</td> <td>#Error</td> </tr> <tr> <td>Easting (M)</td> <td>#Error</td> </tr> <tr> <td>Elevation (M)*</td> <td>96.907</td> </tr> <tr> <td>Northing (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Easting (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Elevation (SFT)*</td> <td>317.936</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Convergence Angle</td> <td>###/###</td> <td>#Error</td> </tr> <tr> <td>Scale Factor</td> <td></td> <td>#Error</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td colspan="2">0.9999847924</td> </tr> <tr> <td>Combined Adjust. Factor</td> <td colspan="2">#Type!</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;"> SUPERCEDED CONTROL </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas South		Horizontal Datum		Northing (M)	#Error	Easting (M)	#Error	Elevation (M)*	96.907	Northing (SFT)	#Type!	Easting (SFT)	#Type!	Elevation (SFT)*	317.936	Convergence Angle	###/###	#Error	Scale Factor		#Error	Elevation Adjust. Factor	0.9999847924		Combined Adjust. Factor	#Type!		Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Vertical Determined By:</td> <td style="width: 50%;">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td>NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center;">Location Description</p> <p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 60 AND STATE HIGHWAY 113 ABOUT 2 MILES NORTH OF BIGELOW, GO WEST ON STATE HIGHWAY 60 FOR 0.20 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.70 METERS NORTH OF THE CENTER OF STATE HIGHWAY 60 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "530014 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH A 101 PID NUMBER FG0413.</p> </div>	Vertical Determined By:	LEVEL - Unkown Quality	Elevation Datum:	NAVD 88	Geoid Datum:		Latitude		Longitude		Ellipsoid Height (M):		Geoid Height (M):	
Zone	Zone Code																																																								
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Geoid Height (M):																																																									

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	79	11.50	37.7
MK # 2	SOUTHWEST CORNER BLUE STORAGE BUI	352	12.55	41.2
MK # 3				

AZ Mark Station	530014A
Geodetic Azimuth	269 13 56
Grid Azimuth	269 36 05

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 PJTC CAMPUS</p> <p>Ref Mon # 2 HEBEPORT</p> <p>Ref Mon # 3 AHTD LITTLE ROCK</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Comments</p> <p>ELEVATION WAS RUN BY 3-WIRE LEVEL LOOP FROM NGS POINT A 101</p> </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530014A	Date Monumented 9/3/2002	Monumented By AHTD	County PERRY	Route 60	Job Number: 080256
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas South</td> <td></td> </tr> <tr> <td colspan="2">Horizontal Datum</td> </tr> <tr> <td>Northing (M)</td> <td>#Error</td> </tr> <tr> <td>Easting (M)</td> <td>#Error</td> </tr> <tr> <td>Elevation (M)*</td> <td></td> </tr> <tr> <td>Northing (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Easting (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Elevation (SFT)*</td> <td></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Convergence Angle</td> <td>###/###</td> <td>#Error</td> </tr> <tr> <td>Scale Factor</td> <td></td> <td>#Error</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td></td> <td></td> </tr> <tr> <td>Combined Adjust. Factor</td> <td></td> <td>#Type!</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;"> SUPERCEDED CONTROL </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas South		Horizontal Datum		Northing (M)	#Error	Easting (M)	#Error	Elevation (M)*		Northing (SFT)	#Type!	Easting (SFT)	#Type!	Elevation (SFT)*		Convergence Angle	###/###	#Error	Scale Factor		#Error	Elevation Adjust. Factor			Combined Adjust. Factor		#Type!	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Vertical Determined By:</td> <td>NONE</td> </tr> <tr> <td>Elevation Datum:</td> <td>NONE</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center;">Location Description</p> <p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 60 AND STATE HIGHWAY 113 ABOUT 2 MILES NORTH OF BIGELOW, GO WEST ON STATE HIGHWAY 60 FOR 0.60 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.75 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 60, 1.59 METERS NORTH OF A WHITE BOARD FENCE AND 1.45 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "530014A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p> </div>	Vertical Determined By:	NONE	Elevation Datum:	NONE	Geoid Datum:		Latitude		Longitude		Ellipsoid Height (M):		Geoid Height (M):	
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Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 PJTC CAMPUS</p> <p>Ref Mon # 2 HEBEPORT</p> <p>Ref Mon # 3 AHTD LITTLE ROCK</p>	<div style="border: 1px solid black; height: 100px; width: 100%;"></div> <p style="text-align: center;">Comments</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530015	Date Monumented 2/6/2013	Monumented By AHTD	County Perry	Route 7	Job Number: 080439
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	58,503.9008 0.0020
Easting (M)	299,769.7065 0.0040
Elevation (M)*	164.839
Northing (SFT)	191,941.5479
Easting (SFT)	983,494.4454
Elevation (SFT)*	540.811

Convergence Angle	0 38 16.0215177
Scale Factor	1.000016186
Elevation Adjust. Factor	0.9999741320
Combined Adjust. Factor	0.9999903176

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	ELEV. BY S5112 IN FEB. 2013 FROM NGS 2ND ORDER BM N 102 TO NGS 2ND ORDER BM'S M 102 & A 104 USING DIGITAL LEVELS. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT.
Ref Mon # 2 P777	
Ref Mon # 3 ARCM, OKHV	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 09
Latitude	34 51 20.2991400
Longitude	93 5 45.7380276
Ellipsoid Height (M):	136.392 0.0030
Geoid Height (M):	-28.447 0.0000

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 314 AND STATE HIGHWAY 7, NORTH OF HOLLIS, GO SOUTH ON HIGHWAY 7 2.6 MILES TO THE MARK ON THE LEFT, EAST 25' OF THE CENTERLINE OF THE HIGHWAY AND WEST 58.6' OF A WHITNESS POST. THE STATION MARK IS A STANDARD 2.5" CAP STAMPED "2013 530015" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530015A	Date Monumented 2/6/2013	Monumented By AHTD	County Perry	Route 7	Job Number: 080439
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	59,150.6446 0.0020
Easting (M)	299,682.8558 0.0040
Elevation (M)*	153.961
Northing (SFT)	194,063.4065
Easting (SFT)	983,209.5027
Elevation (SFT)*	505.120

Convergence Angle	0 38 18.1759464
Scale Factor	1.000014911
Elevation Adjust. Factor	0.9999758391
Combined Adjust. Factor	0.9999907497

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 314 AND STATE HIGHWAY 7, NORTH OF HOLLIS, GO SOUTH ON HIGHWAY 7 2.2 MILES TO THE MARK ON THE LEFT, EAST 73.5' OF THE CENTERLINE OF THE HIGHWAY, SOUTH EAST 38.2' OF A WHITNESS POST, AND NORTH WEST 99' OF THE CENTERLINE OF FOREST SERVICE ROAD 86. THE STATION MARK IS A STANDARD 2.5" CAP STAMPED "2013 530015A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH 2 GUYS	305	11.58	38.0
MK # 2	WEST END OF WINONA FOREST SERVICE SI	163	16.15	53.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 P777 Ref Mon # 3 ARCM, OKHV	Comments ELEV. BY S5112 IN FEB. 2013 FROM NGS 2ND ORDER BM N 102 TO NGS 2ND ORDER BM'S M 102 & A 104 USING DIGITAL LEVELS. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT.
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 530016	Date Monumented 2/6/2013	Monumented By AHTD	County Perry	Route 7	Job Number: 080439,080607
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	60,142.8230 0.0020
Easting (M)	298,457.9471 0.0040
Elevation (M)*	150.762
Northing (SFT)	197,318.5785
Easting (SFT)	979,190.7814
Elevation (SFT)*	494.624

Convergence Angle	0 38 46.4915043
Scale Factor	1.000012998
Elevation Adjust. Factor	0.9999763411
Combined Adjust. Factor	0.9999893388

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	281	7.62	25.0
MK # 2				
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>P777</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARCM, OKHV</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARLR	Ref Mon # 2	P777	Ref Mon # 3	ARCM, OKHV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BY S5112 IN FEB. 2013 FROM NGS 2ND ORDER BM N 102 TO NGS 2ND ORDER BM'S M 102 & A 104 USING DIGITAL LEVELS. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT.</td> </tr> </table>	Comments	ELEV. BY S5112 IN FEB. 2013 FROM NGS 2ND ORDER BM N 102 TO NGS 2ND ORDER BM'S M 102 & A 104 USING DIGITAL LEVELS. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARLR										
Ref Mon # 2	P777										
Ref Mon # 3	ARCM, OKHV										
Comments											
ELEV. BY S5112 IN FEB. 2013 FROM NGS 2ND ORDER BM N 102 TO NGS 2ND ORDER BM'S M 102 & A 104 USING DIGITAL LEVELS. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT.											

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 314 AND STATE HIGHWAY 7, NORTH OF HOLLIS, GO SOUTH ON HIGHWAY 7 1.2 MILES TO THE MARK ON THE RIGHT, WEST 23' OF THE CENTERLINE OF THE HIGHWAY, EAST 25.1' OF A WHITNESS POST, AND SOUTH 31' OF THE CENTERLINE OF HOLLIS TRAIL ROAD. THE STATION MARK IS A STANDARD 2.5" CAP STAMPED "2013 530016" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	530016A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530016A	Date Monumented 2/6/2013	Monumented By AHTD	County Perry	Route 7	Job Number: 080439,080607
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	60,772.3012 0.0020
Easting (M)	298,450.2575 0.0040
Elevation (M)*	154.014
Northing (SFT)	199,383.7915
Easting (SFT)	979,165.5531
Elevation (SFT)*	505.293

Convergence Angle	0 38 46.8303610
Scale Factor	1.000011780
Elevation Adjust. Factor	0.9999758308
Combined Adjust. Factor	0.9999876105

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NORTH END OF A PLASTIC CULVERT	48	2.74 9.0
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	ELEV. BY S5112 IN FEB. 2013 FROM NGS 2ND ORDER BM N 102 TO NGS 2ND ORDER BM'S M 102 & A 104 USING DIGITAL LEVELS. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT.
Ref Mon # 2 P777	
Ref Mon # 3 ARCM, OKHV	

Vertical Determined By: 3rd Order - Digital Levels
Elevation Datum: NAVD 88
Geoid Datum: Geoid 09
Latitude 34 52 33.4244784
Longitude 93 6 38.6833608
Ellipsoid Height (M): 125.435 0.0030
Geoid Height (M): -28.579 0.0000

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 314 AND STATE HIGHWAY 7, NORTH OF HOLLIS, GO SOUTH ON HIGHWAY 7 .8 MILES TO THE MARK ON THE LEFT, EAST 30.5' OF THE CENTERLINE OF THE HIGHWAY AND NORTH 13' OF THE CENTERLINE OF A GRAVEL DRIVE. THE STATION MARK IS A STANDARD 2.5" CAP STAMPED "2013 530016A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530017	Date Monumented 5/16/2016	Monumented By AHTD	County Perry	Route Perry	Job Number: 080507
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	80,552.2250	0.0020	
Easting (M)	305,861.6609	0.0020	
Elevation (M)*			
Northing (SFT)	264,278.4249		
Easting (SFT)	1,003,481.1325		
Elevation (SFT)*			

Convergence Angle	0	36	1.7740777
Scale Factor	0.999978318		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PP	75	110.00	360.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP	
Ref Mon # 2 ARFY	
Ref Mon # 3 ARLR	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	35 3 17.8653204
Longitude	93 1 55.0323372
Ellipsoid Height (M):	83.104 0.0040
Geoid Height (M):	-28.901 0.0040

Location Description
<p>TO REACH STA FROM JCT OF SR-155 & SR-247 NE OF CASA, GO S ON SR-155 0.8 MI TO STA ON RIGHT JUST PAST THE GRAVEL DW LEADING TO A HOME & CHICKEN HOUSES. 18' N OF C/L. 65' W OF GRAVEL DW. THE STA IS A 2 1/2" ALUM CAP STAMPED "530017 2016" SET ON TOP OF A 2' RBR AND DRIVEN EVEN WITH SURFACE OF THE GROUND.</p>

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530017A	Date Monumented 5/16/2016	Monumented By AHTD	County Perry	Route Perry	Job Number: 080507
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	80,565.0052	0.0020	
Easting (M)	305,394.7126	0.0020	
Elevation (M)*			
Northing (SFT)	264,320.3546		
Easting (SFT)	1,001,949.1529		
Elevation (SFT)*			

Convergence Angle	0	36	12.4992863
Scale Factor	0.999978307		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NE END OF GUARD RAIL	271	60.00	196.9
MK # 2	WV	243	88.00	288.7
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARLR</td> </tr> </table>	Ref Mon # 1	ARHP	Ref Mon # 2	ARFY	Ref Mon # 3	ARLR	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARHP							
Ref Mon # 2	ARFY							
Ref Mon # 3	ARLR							
Comments								

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 12A

Latitude 35 3 18.1208196

Longitude 93 2 13.4637252

Ellipsoid Height (M): 78.908 0.0040

Geoid Height (M): -28.913 0.0040

Location Description

TO REACH STA FROM JCT OF SR-155 & SR-247 NE OF CASA, GO S ON SR-155 1.1 MI TO STA ON RIGHT JUST BEFORE THE BRIDGE. 15' N OF C/L. 19' S OF BRB FE. THE STA IS A 2 1/2" ALUM CAP STAMPED "530017A 2016" SET ON TOP OF A 4' RBR AND DRIVEN BELLOW SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530018	Date Monumented 5/18/2016	Monumented By AHTD	County PERRY	Route 7	Job Number: 080501
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	52,056.1092	0.0020			
Easting (M)	298,283.7371	0.0020			
Elevation (M)*	242.506				
Northing (SFT)	170,787.4183				
Easting (SFT)	978,619.2275				
Elevation (SFT)*	795.620				

Convergence Angle	0	38	48.3911820
Scale Factor	1.000029513		
Elevation Adjust. Factor	0.9999619444		
Combined Adjust. Factor	0.9999914563		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CTR OF E HEADWALL	35	240.00	787.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM C 104 BY S5112 IN MAY 2016 FOR JOB # 080501. CONSTRAINED ELEVATIONS ON ARLR & L 103 IN FINAL NETWORK ADJUSTMENT AS A CHECK.
Ref Mon # 2 ARHP	
Ref Mon # 3 ARLR	

Vertical Determined By: 3rd Order - Digital Levels	Elevation Datum: NAVD 88
Geoid Datum: Geoid 12A	Latitude 34 47 50.5409604
Longitude 93 6 41.3656488	Ellipsoid Height (M): 214.307 0.0070
Geoid Height (M): -28.204 0.0070	

Location Description
<p>FROM JCT OF SR-7 & SR-314 IN HOLLIS, GO S ON SR-7 7.1 MI TO STA ON L, JUST PAST THE DRY RUN CREEK BRIDGE. 18' SE OF C/L. STA IS A 2 1/2" ALUM CAP STAMPED "530018 2016" SET</p> <p>BELLOW SURFACE.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530018A	Date Monumented 5/18/2016	Monumented By AHTD	County PERRY	Route 7	Job Number: 080501
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	52,323.5024 0.0020
Easting (M)	298,497.6078 0.0020
Elevation (M)*	235.346
Northing (SFT)	171,664.6908
Easting (SFT)	979,320.9016
Elevation (SFT)*	772.132

Convergence Angle	0 38 43.5648224
Scale Factor	1.000028936
Elevation Adjust. Factor	0.9999630679
Combined Adjust. Factor	0.9999920028

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
FROM JCT OF SR-7 & SR-314 IN HOLLIS, GO S ON SR-7 6.9 MI TO STA ON L, JUST PAST THE DRY RUN CREEK BRIDGE. 20' SE OF C/L. 12' N OF GRAVEL DW. STA IS A 2 1/2" ALUM CAP STAMPED "530018A 2016" SET BELOW SURFACE.			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	S END OF STEEL GT	82	89.00	292.0	530018
MK # 2	N END OF CMP	47	12.00	39.4	
MK # 3					

Area Reference Monuments (used for Processing)		Comments ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM C 104 BY S5112 IN MAY 2016 FOR JOB # 080501. CONSTRAINED ELEVATIONS ON ARLR & L 103 IN FINAL NETWORK ADJUSTMENT AS A CHECK.
Ref Mon # 1	ARFY	
Ref Mon # 2	ARHP	
Ref Mon # 3	ARLR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530019	Date Monumented 5/11/2020	Monumented By ARDOT	County PERRY	Route 9	Job Number: 080609
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	75,785.9056 0.0030
Easting (M)	327,086.0617 0.0030
Elevation (M)*	
Northing (SFT)	248,640.9253
Easting (SFT)	1,073,114.8541
Elevation (SFT)*	

Convergence Angle	0 27 53.5176594
Scale Factor	0.999985162
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	FIRE HYDRANT	220	22.40 73.5
MK # 2	WATER METER	64	20.97 68.8
MK # 3			

Area Reference Monuments (used for Processing) Ref Mon # 1 ARDQ Ref Mon # 2 ARFY Ref Mon # 3 ARSC, ARFS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ARFS ONLY USED FOR A VERTICAL CONSTRAINT. ARDQ, ARFY & ARSC ALL USED FOR HORZ. & VERT. CONSTRAINTS IN NETWORK ADJUSTMENT.</td> </tr> </table>	Comments	ARFS ONLY USED FOR A VERTICAL CONSTRAINT. ARDQ, ARFY & ARSC ALL USED FOR HORZ. & VERT. CONSTRAINTS IN NETWORK ADJUSTMENT.
Comments			
ARFS ONLY USED FOR A VERTICAL CONSTRAINT. ARDQ, ARFY & ARSC ALL USED FOR HORZ. & VERT. CONSTRAINTS IN NETWORK ADJUSTMENT.			

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 0 49.6069092
Longitude	92 47 55.9583556
Ellipsoid Height (M):	81.073 0.0140
Geoid Height (M):	-28.392 0.0140

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 60E, IN PERRYVILLE, GO NORTH ON HIGHWAY 9 0.25 MILES TO THE MARK ON THE RIGHT, SOUTHEAST OF THE C/L OF THE HIGHWAY 23.6'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 530019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530019A	Date Monumented 5/11/2020	Monumented By ARDOT	County PERRY	Route 9	Job Number: 080609
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	76,022.8296 0.0040
Easting (M)	327,356.6314 0.0030
Elevation (M)*	

Northing (SFT)	249,418.2334	
Easting (SFT)	1,074,002.5482	
Elevation (SFT)*		

Convergence Angle	0	27	47.3517815
Scale Factor	0.999984791		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

 TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 60E, IN PERRYVILLE, GO NORTH ON HIGHWAY 9 0.45 MILES TO THE MARK ON THE RIGHT, EAST OF THE C/L OF THE HIGHWAY 25.3'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 530019A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	80	21.18	69.5
MK # 2	FENCE CORNER	173	20.57	67.5
MK # 3				

AZ Mark Station	530019
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing) Ref Mon # 1 ARDQ Ref Mon # 2 ARFY Ref Mon # 3 ARSC, ARFS	<div style="border: 1px solid black; padding: 5px;"> Comments ARFS ONLY USED FOR A VERTICAL CONSTRAINT. ARDQ, ARFY & ARSC ALL USED FOR HORZ. & VERT. CONSTRAINTS IN NETWORK ADJUSTMENT. </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540001	Date Monumented 8/25/1994	Monumented By AHTD	County PHILLIPS	Route 1	Job Number: 110217
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 614,966.4069		Latitude 34 35 55.1731956
Easting (M) 513,011.4800		Longitude 90 46 4.6210584
Elevation (M)* 67.266		Ellipsoid Height (M): 39.754
		Geoid Height (M): -27.512

Northing (SFT) 2,017,602.2866		
Easting (SFT) 1,683,105.1640		
Elevation (SFT)* 220.689		

Convergence Angle 0 41 22.4402862		
Scale Factor 0.999966849		
Elevation Adjust. Factor 0.9999894439		
Combined Adjust. Factor 0.9999562932		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	FIRE HYDRANT	109	2.75	9.0	AZ Mark Station 540001A
MK # 2	4" METAL SIGN POST	20	6.60	21.7	Geodetic Azimuth 180 01 22.50163
MK # 3	TELEPHONE JUNCTION BOX	148	5.20	17.1	Grid Azimuth 179 20 00.06132

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	Cross Reference Job: 110218
Ref Mon # 2 GIL	
Ref Mon # 3 RIDDELL	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540001A	Date Monumented 8/25/1994	Monumented By AHTD	County PHILLIPS	Route 1	Job Number: 110217
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	614,424.4290				
Easting (M)	513,017.7860				
Elevation (M)*	66.337				
Northing (SFT)	2,015,824.1475				
Easting (SFT)	1,683,125.8529				
Elevation (SFT)*	217.641				

Convergence Angle	0	41	22.4355169
Scale Factor	0.999966014		
Elevation Adjust. Factor	0.9999895897		
Combined Adjust. Factor	0.9999556040		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>FROM THE JCT. OF HWY. 1 AND HWY. 49 IN WALNUT CORNER, GO NORTH ON HWY. 1 FOR 4.350 KM (2.70 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 0.584 KM (0.36 MILES) SOUTH OF THE JCT. OF HWY. 1 AND HWY. 242 LEADIING EAST, 14.40 METERS EAST OF THE CENTERLINE OF HWY. 1 AND 0.57 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "540001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					540001
MK # 2	NONE					0 01 22.496803
MK # 3	NONE					359 20 00.06132

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT Ref Mon # 2 GIL Ref Mon # 3 RIDDELL	Cross Reference Job: 110218

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540002	Date Monumented 8/25/1994	Monumented By AHTD	County PHILLIPS	Route 49	Job Number: 110384
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	25,280.9524	
Easting (M)	512,293.4518	
Elevation (M)*	64.011	
Northing (SFT)	82,942.5913	
Easting (SFT)	1,680,749.4331	
Elevation (SFT)*	210.009	

Convergence Angle	0	42	42.8751037
Scale Factor	1.000095909		
Elevation Adjust. Factor	0.9999899547		
Combined Adjust. Factor	1.0000858627		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	10" CRABAPPLE TREE	258	12.80	42.0
MK # 2	GAS LINE VALVE	80	7.40	24.3
MK # 3	NORTHEAST CORNER OF METAL BUILDING	152	17.75	58.2

Area Reference Monuments (used for Processing) Ref Mon # 1 ALMYPORT Ref Mon # 2 BRINKLEYPOR Ref Mon # 3 H 349	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 33 17.6906988
Longitude	90 46 35.6711736
Ellipsoid Height (M):	37.069
Geoid Height (M):	-26.875

Location Description
FROM THE JCT. OF HWY. 1 AND HWY. 49 IN WALNUT CORNER, GO WEST ON HWY. 49 FOR 0.821 KM (0.51 MILES) TO THE STATION ON THE LEFT IN FRONT OF THE ARKANSAS STATE HIGHWAY DEPARTMENT SHOP BUILDING. THE STATION IS 14.0 METERS SOUTH OF THE CENTERLINE OF HWY. 49, 16.2 METERS WEST OF A PAVED DRIVEWAY, 32.0 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "540002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 499.356 METERS.

AZ Mark Station	540002A
Geodetic Azimuth	86 16 06.814430
Grid Azimuth	85 33 23.795651

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540002A	Date Monumented 8/25/1994	Monumented By AHTD	County PHILLIPS	Route 49	Job Number: 110384
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	25,319.6383	
Easting (M)	512,791.3444	
Elevation (M)*	63.234	
Northing (SFT)	83,069.5133	
Easting (SFT)	1,682,382.9358	
Elevation (SFT)*	207.460	

Convergence Angle	0	42	54.2483543
Scale Factor	1.000095818		
Elevation Adjust. Factor	0.9999900766		
Combined Adjust. Factor	1.0000858937		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPOR
Ref Mon # 3	H 349

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540003	Date Monumented 9/28/1998	Monumented By AHTD	County PHILLIPS	Route 49	Job Number: 110333,110536
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	605,228.4909	
Easting (M)	525,913.9210	
Elevation (M)*	66.271	
Northing (SFT)	1,985,653.8072	
Easting (SFT)	1,725,435.9225	
Elevation (SFT)*	217.424	

Convergence Angle	0	46	2.9614046
Scale Factor	0.999952741		
Elevation Adjust. Factor	0.9999896000		
Combined Adjust. Factor	0.9999423415		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MARK ON TOP OF IRON PIPE FENCE POST	269	2.04	6.7
MK # 2	MARK ON TOP OF IRON PIPE FENCE POST	315	7.39	24.2
MK # 3	MARK ON TOP OF IRON PIPE FENCE POST	166	5.02	16.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT Ref Mon # 2 ADEHO 2 RM 6 Ref Mon # 3 H 349	ELEVATION ON THIS STATION WAS ESTABLISHED BY CREW S5112 FROM NATIONAL GEODETIC SURVEY BENCH MARK S 224.

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 30 33.8451408
Longitude	90 37 43.4136504
Ellipsoid Height (M):	39.388
Geoid Height (M):	-26.883

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 49B, LOCATED IN WEST HELENA, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 5.71 KM (3.55 MI) TO THE STATION ON THE RIGHT SET IN FRONT OF THE JOHN DEERE DEALERSHIP. THE STATION IS 168.98 METERS NORTHWEST OF THE CENTER OF LITTLE ROCK ROAD, 118.07 METERS SOUTHEAST OF THE CENTER OF THE ENTRANCE TO THE JOHN DEERE DEALERSHIP, 28.84 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 49 AND 1.64 METERS NORTHEAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "540003 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540003A	Date Monumented 9/28/1998	Monumented By AHTD	County PHILLIPS	Route 49	Job Number: 110333
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	605,662.0749	
Easting (M)	525,706.5340	
Elevation (M)*	71.069	
Northing (SFT)	1,987,076.3241	
Easting (SFT)	1,724,755.5203	
Elevation (SFT)*	233.166	

Convergence Angle	0	45	58.5384346
Scale Factor	0.999953311		
Elevation Adjust. Factor	0.9999888471		
Combined Adjust. Factor	0.9999421586		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	333	32.34	106.1
MK # 2	IN LINE BRACE POST (IRON PIPE)	31	3.65	12.0
MK # 3	POWER POLE	141	36.39	119.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT Ref Mon # 2 ADEHO 2 RM 6 Ref Mon # 3 H 349	ELEVATION ON THIS STATION WAS ESTABLISHED BY CREW S5112 FROM NATIONAL GEODETIC SURVEY BENCH MARK S 224.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540004	Date Monumented 9/28/1998	Monumented By AHTD	County PHILLIPS	Route 49	Job Number: 110333,110536,110555
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 609,346.7119		Latitude 34 32 48.3865044
Easting (M) 523,823.5340		Longitude 90 39 3.2321988
Elevation (M)* 77.294		Ellipsoid Height (M): 50.408
		Geoid Height (M): -26.886

Northing (SFT) 1,999,165.0040		
Easting (SFT) 1,718,577.7111		
Elevation (SFT)* 253.589		

Convergence Angle 0 45 18.2877064		
Scale Factor 0.999958352		
Elevation Adjust. Factor 0.9999878702		
Combined Adjust. Factor 0.9999462227		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 49B, LOCATED IN WEST HELENA, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 1.29 KM (0.80 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.80 METERS SOUTHEAST OF A FIELD ENTRANCE, 6.40 METERS NORTHEAST OF THE CENTER OF THE NORTHBOUND LANES AND 2.23 METERS SOUTHWEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "540004 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAN HOLE COVER	241	14.40	47.2
MK # 2	CORNER POST OF CHAIN LINK FENCE	351	6.50	21.3
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	ELEVATION ON THIS STATION WAS ESTABLISHED BY CREW S5112 FROM NATIONAL GEODETIC SURVEY BENCH MARK S 224.
Ref Mon # 2 ADEHO 2 RM 6	
Ref Mon # 3 H 349	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540004A	Date Monumented 9/28/1998	Monumented By AHTD	County PHILLIPS	Route 49	Job Number: 110333,110555
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	609,802.2729	
Easting (M)	523,389.9670	
Elevation (M)*	74.383	
Northing (SFT)	2,000,659.6237	
Easting (SFT)	1,717,155.2501	
Elevation (SFT)*	244.038	

Convergence Angle	0	45	8.9020771
Scale Factor	0.999959003		
Elevation Adjust. Factor	0.9999883270		
Combined Adjust. Factor	0.9999473305		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	COMBINATION POLE	123	31.19	102.3	540004
MK # 2	CORNER POST OF CHAIN LINK FENCE	312	30.99	101.7	137 10 09.99088
MK # 3					136 25 01.15109

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	ELEVATION ON THIS STATION WAS ESTABLISHED BY CREW S5112 FROM NATIONAL GEODETIC SURVEY BENCH MARK S 224.
Ref Mon # 2 ADEHO 2 RM 6	
Ref Mon # 3 H 349	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540004B	Date Monumented 12/11/2000	Monumented By AHTD	County PHILLIPS	Route 49	Job Number: 110384
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 25,264.3078		Latitude 34 33 19.0818972
Easting (M) 507,396.5608		Longitude 90 49 47.7243372
Elevation (M)* 59.138		Ellipsoid Height (M): 32.282
		Geoid Height (M): -26.856

Northing (SFT) 82,887.9832		
Easting (SFT) 1,664,683.5499		
Elevation (SFT)* 194.022		

Convergence Angle	0	40	51.1195352
Scale Factor	1.000095789		
Elevation Adjust. Factor	0.9999907194		
Combined Adjust. Factor	1.0000865075		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO EAST ON U.S. HIGHWAY 49 FOR 8.80 KM (5.47 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.10 METERS EAST OF THE CENTER OF A FIELD ENTRANCE, 16.00 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540004 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK M 171. THE SHOT DISTANCE IS 596.406 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	248	13.20	43.3
MK # 2	TELEPHONE JUNCTION BOX	259	25.90	85.0
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMYPOR Ref Mon # 2 BRINKLEYPOR Ref Mon # 3 H 349	DUPLICATE STAMPING. STAMPED AS 540004

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540004BA	Date Monumented 12/11/2000	Monumented By AHTD	County PHILLIPS	Route 49	Job Number: 110384
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	25,264.7529	
Easting (M)	506,672.7820	
Elevation (M)*	58.270	
Northing (SFT)	82,889.4435	
Easting (SFT)	1,662,308.9523	
Elevation (SFT)*	191.174	

Convergence Angle	0	40	34.6023373
Scale Factor	1.000095764		
Elevation Adjust. Factor	0.9999908556		
Combined Adjust. Factor	1.0000866187		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO EAST ON U.S. HIGHWAY 49 FOR 8.05 KM (5.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.55 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY, 13.30 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540004A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK M 171. THE SHOT DISTANCE IS 723.714 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	244	13.39	43.9
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input type="text" value="ALMYPORT"/></p> <p>Ref Mon # 2 <input type="text" value="BRINKLEYPOR"/></p> <p>Ref Mon # 3 <input type="text" value="H 349"/></p>	<p style="text-align: center;">Comments</p> <p>DUPLICATE STAMPING. STAMPED AS 540004A</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540005	Date Monumented 12/11/2000	Monumented By AHTD	County PHILLIPS	Route 49	Job Number: 110384
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	25,234.1310	
Easting (M)	502,315.2730	
Elevation (M)*	58.449	
Northing (SFT)	82,788.9781	
Easting (SFT)	1,648,012.6915	
Elevation (SFT)*	191.761	

Convergence Angle	0	38	55.1512918
Scale Factor	1.000095708		
Elevation Adjust. Factor	0.9999908275		
Combined Adjust. Factor	1.0000865347		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO EAST ON U.S. HIGHWAY 49 FOR 3.75 KM (2.33 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.70 METERS EAST OF THE CENTER OF A FIELD ENTRANCE, 13.10 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540005 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK A 224. THE SHOT DISTANCE IS 596.406 METER.</p>				

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	TELEPHONE POLE	251	15.60	51.2		540005A
MK # 2	EAST END OF RCP	285	16.60	54.5		87 03 22.457503
MK # 3	NONE					86 24 27.134582

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMYPORT	
Ref Mon # 2 BRINKLEYPOR	
Ref Mon # 3 H 349	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540005A	Date Monumented 12/11/2000	Monumented By AHTD	County PHILLIPS	Route 49	Job Number: 110384
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	25,271.5049	
Easting (M)	502,910.5630	
Elevation (M)*	56.840	
Northing (SFT)	82,911.5957	
Easting (SFT)	1,649,965.7388	
Elevation (SFT)*	186.483	

Convergence Angle	0	39	8.7461944
Scale Factor	1.000095623		
Elevation Adjust. Factor	0.9999910800		
Combined Adjust. Factor	1.0000867022		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	280	17.55	57.6
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMYPORT	
Ref Mon # 2 BRINKLEYPOR	
Ref Mon # 3 H 349	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 33 21.0090780
Longitude	90 52 43.6540404
Ellipsoid Height (M):	30.010
Geoid Height (M):	-26.830

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO EAST ON U.S. HIGHWAY 49 FOR 4.35 KM (2.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.90 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "540005A 2000" SET ON TOP ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK A 224. THE SHOT DISTANCE IS 596.406 METERS.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540006	Date Monumented 12/11/2000	Monumented By AHTD	County PHILLIPS	Route 49	Job Number: 110384
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	25,799.7080	
Easting (M)	498,625.9433	
Elevation (M)*	65.094	
Northing (SFT)	84,644.5420	
Easting (SFT)	1,635,908.6156	
Elevation (SFT)*	213.563	

Convergence Angle	0	37	31.0970458
Scale Factor	1.000094018		
Elevation Adjust. Factor	0.9999897847		
Combined Adjust. Factor	1.0000838018		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	GAS METER		207	11.60	38.1
MK # 2	GAS VALVE		135	6.50	21.3
MK # 3	NONE				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ALMYPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>BRINKLEYPOR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>H 349</td> </tr> </table>	Ref Mon # 1	ALMYPORT	Ref Mon # 2	BRINKLEYPOR	Ref Mon # 3	H 349	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ALMYPORT						
Ref Mon # 2	BRINKLEYPOR						
Ref Mon # 3	H 349						

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 33 39.6979416
Longitude	90 55 31.4651676
Ellipsoid Height (M):	38.297
Geoid Height (M):	-26.797

Location Description
THE STATION IS LOCATED ON THE WEST SIDE OF MARVELL AT THE JUNCTION OF U.S. HIGHWAY 49 STATE HIGHAY 1 SOUTH. THE STATION IS 35.20 METERS EAST OF THE CENTER OF STATE HIGHWAY 1 NORTH BOUND LANE, 23.70 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540006 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK A 224. THE STOT DISTANCE IS 598.519 METERS.

AZ Mark Station	540006A
Geodetic Azimuth	91 56 55.876942
Grid Azimuth	91 19 24.608414

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540006A	Date Monumented 12/11/2000	Monumented By AHTD	County PHILLIPS	Route 49	Job Number: 110384
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	25,785.8824				
Easting (M)	499,224.3575				
Elevation (M)*	63.757				
Northing (SFT)	84,599.1825				
Easting (SFT)	1,637,871.9129				
Elevation (SFT)*	209.176				

Convergence Angle	0	37	44.7510479
Scale Factor	1.000094075		
Elevation Adjust. Factor	0.9999899945		
Combined Adjust. Factor	1.0000840686		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	75	8.70	28.5
MK # 2	WEST END OF CMP	113	10.50	34.4
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMYPORT	ELEVATION BY 3 WIRE FROM NGS POINT A 224
Ref Mon # 2 BRINKLEYPOR	
Ref Mon # 3 H 349	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540007	Date Monumented 12/11/2000	Monumented By AHTD	County PHILLIPS	Route 49	Job Number: 110385
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	28,791.5962	
Easting (M)	494,202.3307	
Elevation (M)*	61.190	
Northing (SFT)	94,460.4285	
Easting (SFT)	1,621,395.4800	
Elevation (SFT)*	200.754	

Convergence Angle	0	35	50.8494364
Scale Factor	1.000085684		
Elevation Adjust. Factor	0.9999903974		
Combined Adjust. Factor	1.0000760806		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	125	5.80	19.0
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMYPORT	ELEVATION BY 3 WIRE FROM NGS POINT A 224
Ref Mon # 2 BRINKLEYPOR	
Ref Mon # 3 H 349	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540007A	Date Monumented 12/11/2000	Monumented By AHTD	County PHILLIPS	Route 49	Job Number: 110385
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	28,846.4266	
Easting (M)	493,706.8594	
Elevation (M)*	55.913	
Northing (SFT)	94,640.3179	
Easting (SFT)	1,619,769.9212	
Elevation (SFT)*	183.441	

Convergence Angle	0	35	39.5505211
Scale Factor	1.000085522		
Elevation Adjust. Factor	0.9999912255		
Combined Adjust. Factor	1.0000767468		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 6.13 KM (3.81 KM) TO THE STATION ON THE LEFT. THE STATION IS 16.30 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540007A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK A 224. THE SHOT DISTANCE IS 498.453.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					540007
MK # 2	NONE					96 54 33.116635
MK # 3	NONE					96 18 53.428090

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMYPORT	ELEVATION BY 3 WIRE FROM NGS POINT A 224
Ref Mon # 2 BRINKLEYPOR	
Ref Mon # 3 H 349	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540008	Date Monumented 12/11/2000	Monumented By AHTD	County PHILLIPS	Route 39	Job Number: 110385
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	29,199.0920	
Easting (M)	490,316.5549	
Elevation (M)*	56.482	
Northing (SFT)	95,797.3543	
Easting (SFT)	1,608,646.8972	
Elevation (SFT)*	185.308	

Convergence Angle	0	34	22.2275620
Scale Factor	1.000084477		
Elevation Adjust. Factor	0.9999911362		
Combined Adjust. Factor	1.0000756125		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 9.66 KM (6.00 MI) TO THE JUNCTION OF STATE HIGHWAY 39 ON THE LEFT, TURN LEFT SOUTH ON STATE HIGHWAY 39 FOR 0.11 KM (0.07 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.10 METERS SOUTH OF THE CENTER OF A FIELD ENTRANCE, 10.90 METERS EAST OF THE CENTER OF STATE HIGHWAY 39 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540008 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK G 171. THE SHOT DISTANCE IS 557.792 METERS.</p>				

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	SOUTH END CMP	346	10.60	34.8		540008A
MK # 2	POWER POLE	161	4.70	15.4		182 40 51.37698
MK # 3	NONE					182 06 29.15669

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMYPORT Ref Mon # 2 BRINKLEYPOR Ref Mon # 3 H 349	ELEVATION BY 3 WIRE FROM NGS POINT G 171

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540008A	Date Monumented 12/11/2000	Monumented By AHTD	County PHILLIPS	Route 39	Job Number: 110385
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	28,641.6272	
Easting (M)	490,296.0347	
Elevation (M)*	56.162	
Northing (SFT)	93,968.4052	
Easting (SFT)	1,608,579.5738	
Elevation (SFT)*	184.258	

Convergence Angle	0	34	21.6318281
Scale Factor	1.000085982		
Elevation Adjust. Factor	0.9999911864		
Combined Adjust. Factor	1.0000771677		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE CABLE SIGN	191	3.95	13.0
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMYPORT	ELEVATION BY 3 WIRE FROM NGS POINT G 171
Ref Mon # 2 BRINKLEYPORT	
Ref Mon # 3 H 349	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 35 14.7365448
Longitude	91 0 57.0632112
Ellipsoid Height (M):	29.439
Geoid Height (M):	-26.723

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 9.66 KM (6.00 MI) TO THE JUNCTION OF STATE HIGHWAY 39 ON THE LEFT, TURN LEFT SOUTH ON STATE HIGHWAY 39 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.65 METERS WEST OF THE CENTER OF STATE HIGHWAY 39 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540008A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK G 171.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540009	Date Monumented 3/29/2011	Monumented By AHTD	County Phillips	Route CR 240	Job Number: BR5405,110217
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	619,062.3431	0.0062	
Easting (M)	513,689.8432	0.0052	
Elevation (M)*	60.502	0.0024	
Northing (SFT)	2,031,040.3707		
Easting (SFT)	1,685,330.7606		
Elevation (SFT)*	198.496		

Convergence Angle	0	41	38.4296971
Scale Factor	0.999973382		
Elevation Adjust. Factor	0.9999905054		
Combined Adjust. Factor	0.9999638877		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	S.E. corner of bridge	317	36.58	120.0
MK # 2	power pole	144	0.90	3.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012</td> </tr> </table>	Comments	DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012
Comments			
DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540009A	Date Monumented 3/29/2011	Monumented By AHTD	County Phillips	Route CR 240	Job Number: BR5405,110217
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	619,107.8830	0.0061	
Easting (M)	514,141.9330	0.0051	
Elevation (M)*	60.921	0.0026	
Northing (SFT)	2,031,189.7795		
Easting (SFT)	1,686,813.9919		
Elevation (SFT)*	199.871		

Convergence Angle	0	41	48.3759425
Scale Factor	0.999973448		
Elevation Adjust. Factor	0.9999904396		
Combined Adjust. Factor	0.9999638879		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	power pole	103	2.90	9.5
MK # 2	N.W. corner bridge	107	24.38	80.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012</td> </tr> </table>	Comments	DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012
Comments			
DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012			

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540010	Date Monumented 4/6/2011	Monumented By AHTD	County PHILLIPS	Route 242	Job Number: 110217
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	615,001.4971	0.0062	
Easting (M)	513,034.8406	0.0048	
Elevation (M)*	66.953	0.0016	
Northing (SFT)	2,017,717.4117		
Easting (SFT)	1,683,181.8062		
Elevation (SFT)*	219.662		

Convergence Angle	0	41	22.9626602
Scale Factor	0.999966903		
Elevation Adjust. Factor	0.9999894930		
Combined Adjust. Factor	0.9999563963		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Combo Poloe	176	2.44	8.0	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540010A	Date Monumented 4/6/2011	Monumented By AHTD	County PHILLIPS	Route 242	Job Number: 110217
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	614,997.9490	0.0060			
Easting (M)	513,445.1666	0.0047			
Elevation (M)*	67.027	0.0014			
Northing (SFT)	2,017,705.7710				
Easting (SFT)	1,684,528.0174				
Elevation (SFT)*	219.906				

Convergence Angle	0	41	31.9742066
Scale Factor	0.999966890		
Elevation Adjust. Factor	0.9999894813		
Combined Adjust. Factor	0.9999563717		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	combo pole	168	1.22	4.0
MK # 2	telephone box	200	1.37	4.5
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012</td> </tr> </table>	Comments	DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012
Comments			
DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012			

Location Description	
the intersection of highway 1 and 49 at Walnut Corner, gp north on Highway 1 for 3.0 miles to highway 242, turn right(east), go 0.3miles to the station on the right, 37' south of the center line of the highway 242, 4' north of a witness post and 46' east of the center of a gravel driveway to an brick building. The station mark is a standard 2 1/2" alum. cap stamped (2011 540010A) and set on top of a 4' rebar driven 0.2' below ground level. Lat. 34.3556 Lon. 090.4547	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540011	Date Monumented 4/7/2011	Monumented By AHTD	County PHILLIPS	Route 49	Job Number: 110217
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	610,090.1828	0.0048	
Easting (M)	512,317.1237	0.0038	
Elevation (M)*	63.948	0.0019	
Northing (SFT)	2,001,604.2081		
Easting (SFT)	1,680,827.0967		
Elevation (SFT)*	209.802		

Convergence Angle	0	41	5.9088531
Scale Factor	0.999959609		
Elevation Adjust. Factor	0.9999899646		
Combined Adjust. Factor	0.9999495740		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Fire hydrant	220	4.88	16.0	
MK # 2	18" cmp	23	5.64	18.5	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540011A	Date Monumented 4/7/2011	Monumented By AHTD	County PHILLIPS	Route 49	Job Number: 110217
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	610,151.4939	0.0050			
Easting (M)	511,691.5317	0.0039			
Elevation (M)*	63.756	0.0022			
Northing (SFT)	2,001,805.3596				
Easting (SFT)	1,678,774.6336				
Elevation (SFT)*	209.173				

Convergence Angle	0	40	52.1913567
Scale Factor	0.999959708		
Elevation Adjust. Factor	0.9999899947		
Combined Adjust. Factor	0.9999497031		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	30"cmp	235	10.67	35.0
MK # 2	power pole	94	34.14	112.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012</td> </tr> </table>	Comments	DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012
Comments			
DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012			

Location Description
The intersection of highway 1 and highway 49 at Walnut Corner, go west on highway 49 to the station on the right, 2' south of a witness post, 45' east of the center of a gravel field entrance and 78' north of the center line of highway 49. The station mark is a standard 2 1/2" alum. cap stamped (2011 540011A) and set on top of a 4' rebar and driven 0.2 foot below ground level Lat. 34.3319 Lon.090.4658

AZ Mark Station	<input style="width: 150px;" type="text"/>
Geodetic Azimuth	<input style="width: 150px;" type="text"/>
Grid Azimuth	<input style="width: 150px;" type="text"/>

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540012	Date Monumented 4/11/2011	Monumented By AHTD	County PHILLIPS	Route 1	Job Number: 110217
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	612,169.2128	0.0048			
Easting (M)	513,039.8186	0.0038			
Elevation (M)*	65.359	0.0021			
Northing (SFT)	2,008,425.1590				
Easting (SFT)	1,683,198.1382				
Elevation (SFT)*	214.432				

Convergence Angle	0	41	22.3232986
Scale Factor	0.999962617		
Elevation Adjust. Factor	0.9999897431		
Combined Adjust. Factor	0.9999523605		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	24"cmp	138	9.75	32.0
MK # 2	telephone box	127	11.43	37.5
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012</td> </tr> </table>	Comments	DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012
Comments			
DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012			

Location Description
The intersection of highway 1 and 49 at Walnut corner, go north on highway 1 for 1.3 miles to the station on the right, 35' east of the center line of highway 1, 2' west of a witness post and 41' north of the center line of a gravel road to a one story frame house. The station is a standard 2 1/2" alum. cap stamped (2011 540012) set on a 4' rebar driven 0.2 foot below ground level. Lat.34.3320 Lon.090.51.08

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540012A	Date Monumented 4/11/2011	Monumented By AHTD	County PHILLIPS	Route 1	Job Number: 110217
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	612,684.0590	0.0046			
Easting (M)	513,041.9377	0.0036			
Elevation (M)*	66.571	0.0022			
Northing (SFT)	2,010,114.2836				
Easting (SFT)	1,683,205.0906				
Elevation (SFT)*	218.409				

Convergence Angle	0	41	22.5058941
Scale Factor	0.999963381		
Elevation Adjust. Factor	0.9999895529		
Combined Adjust. Factor	0.9999529343		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>The intersection of highway 1 and highway 49 at walnut corner, Go north on highway 1 for 1.6 miles to the station on the right , 2' west of post, 47' south of the center line of county road 244, and 51' east of the center line of highway1. The station mark is a standard 2 1/2" alum. cap stamped (2011 540012A) and set on top of a 4' rebar driven 0.2' below ground level Lat.34.3441 Lon.090.4604</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	fire hydrant	98	2.16	7.1
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <p>DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012</p>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540013	Date Monumented 10/15/2012	Monumented By AHTD	County Phillips	Route 44	Job Number: 110575
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	568,845.7121		
Easting (M)	495,346.5357		
Elevation (M)*	48.749	0.0008	
Northing (SFT)	1,866,287.9738		
Easting (SFT)	1,625,149.4259		
Elevation (SFT)*	159.937		

Convergence Angle	0	34	44.1999112
Scale Factor	0.999921894		
Elevation Adjust. Factor	0.9999923498		
Combined Adjust. Factor	0.9999142444		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID96		
Latitude	34	11	4.7636124
Longitude	90	57	56.1575988
Ellipsoid Height (M):	22.280		
Geoid Height (M):	-26.542		

Location Description
<p>From the town of Mellwood. Go south on Hwy. 44 for 2.55 miles to the station on the left. It is a standard alum. cap on a 4ft. 5/8in. rebar. Cap is stamped 540013 2012 70ft. East of Center Line Highway 44, 25ft. North of Center of Field Entrance</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Southeast of telephone box	341	3.96	13.0
MK # 2	South of power pole with light	8	22.86	75.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<p>BASED ON NGS POINT K 305</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540014	Date Monumented 4/12/2016	Monumented By AHTD	County PHILLIPS	Route 85	Job Number: B078, 110716
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	599,531.5869	0.0038			
Easting (M)	511,494.3129	0.0036			
Elevation (M)*	52.140				

Northing (SFT)	1,966,963.2147				
Easting (SFT)	1,678,127.5916				
Elevation (SFT)*	171.062				

Convergence Angle	0	40	45.0980244		
Scale Factor	0.999945937				
Elevation Adjust. Factor	0.9999918176				
Combined Adjust. Factor	0.9999377551				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (2011)				
Latitude	34	27	34.8791004		
Longitude	90	47	11.3404848		
Ellipsoid Height:	25.156				
Grid Northing (Meters)	599,531.5823				
Grid Easting (Meters)	511,494.3139				

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	SOUTHEAST CORNER CHAINLINK FENCE		357	1.50	4.9
MK # 2	EAST BRICK COLUMN "ONEIDA COMMUNI		270	10.70	35.1
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARWY	Elevation based on Static GPS by crew S5102 in April 2016. STATIC WAS PERFORMED AGAIN BY CREW S5102 IN MARCH 2020. VERTICAL DETERMINED BY HOLDING ARWY AND ARST IN STATIC WORK.
Ref Mon # 2 ARPB	
Ref Mon # 3 MSB6	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540014A	Date Monumented 4/12/2016	Monumented By AHTD	County PHILLIPS	Route 85	Job Number: B078, 110716
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	599,505.3352	0.0040			
Easting (M)	510,773.5866	0.0038			
Elevation (M)*	51.712				

Northing (SFT)	1,966,877.0872				
Easting (SFT)	1,675,763.0087				
Elevation (SFT)*	169.658				

Convergence Angle	0	40	29.2870028		
Scale Factor	0.999945916				
Elevation Adjust. Factor	0.9999918848				
Combined Adjust. Factor	0.9999378012				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (2011)				
Latitude	34	27	34.3034676		
Longitude	90	47	39.5902068		
Ellipsoid Height:	24.717				
Grid Northing (Meters)	599,505.3280				
Grid Easting (Meters)	510,773.5837				

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	POWER POLE		94	2.00	6.6
MK # 2	WELL HEAD		276	4.00	13.1
MK # 3					

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARWY</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARST</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MSOX</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARWY	Ref Mon # 2	ARST	Ref Mon # 3	MSOX	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation based on Static GPS by crew S5102 in April 2016. STATIC WAS PERFORMED AGAIN BY CREW S5102 IN MARCH 2020. VERTICAL DETERMINED BY HOLDING ARWY AND ARST IN STATIC WORK.</td> </tr> </table>	Comments	Elevation based on Static GPS by crew S5102 in April 2016. STATIC WAS PERFORMED AGAIN BY CREW S5102 IN MARCH 2020. VERTICAL DETERMINED BY HOLDING ARWY AND ARST IN STATIC WORK.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARWY										
Ref Mon # 2	ARST										
Ref Mon # 3	MSOX										
Comments											
Elevation based on Static GPS by crew S5102 in April 2016. STATIC WAS PERFORMED AGAIN BY CREW S5102 IN MARCH 2020. VERTICAL DETERMINED BY HOLDING ARWY AND ARST IN STATIC WORK.											

Location Description
<p>TO REACH FROM THE JUNCTION OF HWY. 85 AND HWY. 318 IN ONEIDA. GO SOUTH ON HWY. 85 FOR 0.5 MILES TO PHILLIPS CO. RD. 348. GO WEST/RIGHT ON PHILLIPS CO. RD. FOR 0.4 MILES TO THE STATION ON THE LEFT. THE STATION IS 6 FT. WEST OF A WITNESS POST, 34.5 FT. SOUTH OF THE CENTER OF PHILLIPS CO. RD. 348, AND 54 FT. EAST OF THE CENTER OF A FIELD ENTRANCE. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "540014A 2016" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

AZ Mark Station	540014
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540015	Date Monumented 5/9/2016	Monumented By AHTD	County PHILLIPS	Route 39	Job Number: B024
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	606,045.1948	0.0023	
Easting (M)	490,202.0944	0.0023	
Elevation (M)*			
Northing (SFT)	1,988,333.2766		
Easting (SFT)	1,608,271.3714		
Elevation (SFT)*			

Convergence Angle	0	32	59.5572718
Scale Factor	0.999954357		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	256	8.50	27.9
MK # 2	24" CORRUGATED METAL PIPE	308	4.30	14.1
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPB Ref Mon # 2 ARWY Ref Mon # 3 ARLR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation derived by static GPS by crew S-5102 in May 2016</td> </tr> </table>	Comments	Elevation derived by static GPS by crew S-5102 in May 2016
Comments			
Elevation derived by static GPS by crew S-5102 in May 2016			

Location Description
TO REACH FROM THE JUNCTION OF HWY 49 AND HWY 39 WEST OF MARVELL. GO SOUTH ON HWY 39 FOR 5.05 MILES TO THE STATION ON THE RIGHT. THE STATION IS 4 FT. EAST OF A WITNESS POST, 25 FT. WEST OF THE CENTERLINE OF HWY 39, AND 22 FT. SOUTH OF THE CENTER OF PHILLIPS CO. RD. 656. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "540015 2016" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540015A	Date Monumented 5/9/2016	Monumented By AHTD	County PHILLIPS	Route 39	Job Number: B024
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	606,060.6649 0.0024
Easting (M)	489,786.3731 0.0024
Elevation (M)*	

Northing (SFT)	1,988,384.0314	
Easting (SFT)	1,606,907.4591	
Elevation (SFT)*		

Convergence Angle	0	32	50.4377345
Scale Factor	0.999954383		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH LIGHT	108	3.30	10.8
MK # 2	18" CORRUGATED METAL PIPE	339	11.50	37.7
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPB Ref Mon # 2 ARWY Ref Mon # 3 ARLR	Elevation derived by static GPS by crew S-5102 in May 2016

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	GEOID12A
Latitude	34 31 14.3035680
Longitude	91 1 19.4166120
Ellipsoid Height (M):	26.884 0.0114
Geoid Height (M):	-26.856

Location Description
TO REACH FROM THE JUNCTION OF HWY 49 AND HWY 39 WEST OF MARVELL. GO SOUTH ON HWY 39 FOR 5.0 MILES TO PHILLIPS CO. RD. 656. GO RIGHT/WEST ON PHILLIPS CO. RD. 656 FOR 0.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 11 FT. WEST OF A WITNESS POST, AND 18 FT. SOUTH OF THE CENTER OF PHILLIPS CO. RD. 656. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "540015A 2016" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540016	Date Monumented 2/26/2019	Monumented By ARDOT	County PHILLIPS	Route 20	Job Number: 110701
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	590,408.9527 0.0020
Easting (M)	513,903.7732 0.0020
Elevation (M)*	

Northing (SFT)	1,937,033.3723	
Easting (SFT)	1,686,032.6292	
Elevation (SFT)*		

Convergence Angle	0	41	35.5126359
Scale Factor	0.999936308		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 20W AND STATE HIGHWAY 20 SPUR, EAST OF WABASH, GO WEST ON HIGHWAY 20 8.05 MILES TO THE MARK ON THE LEFT, SOUTHEAST 14.6' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 540016" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SE END OF CMP UNDER HIGHWAY	229	29.57	97.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPB Ref Mon # 2 ARWY Ref Mon # 3 MSOX	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540016A	Date Monumented 2/26/2019	Monumented By ARDOT	County PHILLIPS	Route 20	Job Number: 110701
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	590,645.8011 0.0020
Easting (M)	514,261.4469 0.0030
Elevation (M)*	
Northing (SFT)	1,937,810.4324
Easting (SFT)	1,687,206.0970
Elevation (SFT)*	

Convergence Angle	0 41 43.4111017
Scale Factor	0.999936527
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By: GPS - Unknown Quality	Elevation Datum: NAVD 88
Geoid Datum: Geoid12B	
Latitude	34 22 45.4362060
Longitude	90 45 27.1524780
Ellipsoid Height (M):	27.013 0.0060
Geoid Height (M):	-26.943 0.0060

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 20W AND STATE HIGHWAY 20 SPUR, EAST OF WABASH, GO WEST ON HIGHWAY 20 7.75 MILES TO A LEVEE ROAD ON THE LEFT, TURN LEFT HERE AND GO 240' TO THE MARK ON THE RIGHT, 12' WEST OF THE C/L OF THE LEVEE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 540016A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE	50	21.03	69.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPB Ref Mon # 2 ARWY Ref Mon # 3 MSOX	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540017	Date Monumented 2/26/2019	Monumented By ARDOT	County PHILLIPS	Route 20	Job Number: 110701
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	594,364.1899	0.0020			
Easting (M)	520,666.4872	0.0020			
Elevation (M)*					
Northing (SFT)	1,950,009.8464				
Easting (SFT)	1,708,219.9668				
Elevation (SFT)*					

Convergence Angle	0	44	4.7719058
Scale Factor	0.999940128		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CP W/TRANSFORMER	141	7.01	23.0
MK # 2	LIGHT POLE	320	17.68	58.0
MK # 3	NE COR 1-S-B HOOUSE	313	33.53	110.0

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARPB</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARWY</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MSOX</td> </tr> </table>	Ref Mon # 1	ARPB	Ref Mon # 2	ARWY	Ref Mon # 3	MSOX	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	ARPB						
Ref Mon # 2	ARWY						
Ref Mon # 3	MSOX						

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	34 24 43.5131136
Longitude	90 41 14.5829652
Ellipsoid Height (M):	26.631 0.0100
Geoid Height (M):	-26.963 0.0100

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 20W AND 20 SPUR, EAST OF WABASH, GO WEST ON HIGHWAY 20 2.55 MILES TO THE MARK ON THE LEFT, SOUTHEAST OF THE C/L OF THE HIGHWAY 16'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "540017 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 540017A	Date Monumented 2/26/2019	Monumented By ARDOT	County PHILLIPS	Route 20	Job Number: 110701
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	594,630.7173	0.0020			
Easting (M)	521,018.3173	0.0020			
Elevation (M)*					
Northing (SFT)	1,950,884.2783				
Easting (SFT)	1,709,374.2627				
Elevation (SFT)*					

Convergence Angle	0	44	12.5576004
Scale Factor	0.999940400		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 20W AND 20 SPUR, EAST OF WABASH, GO WEST ON HIGHWAY 20 2.3 MILES TO THE MARK ON THE LEFT, SOUTHEAST OF THE C/L OF THE HIGHWAY 13'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "540017A 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SE END CMP UNDER HIGHWAY	62	18.59	61.0	AZ Mark Station 540017
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPB Ref Mon # 2 ARWY Ref Mon # 3 MSOX	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 550001	Date Monumented 8/1/1994	Monumented By AHTD	County PIKE	Route 8	Job Number: 070063
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	578,404.6519	
Easting (M)	263,124.7450	
Elevation (M)*	164.557	
Northing (SFT)	1,897,649.2621	
Easting (SFT)	863,268.4342	
Elevation (SFT)*	539.884	

Convergence Angle	0	49	54.9104689
Scale Factor	0.999926624		
Elevation Adjust. Factor	0.9999741763		
Combined Adjust. Factor	0.9999008022		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF 12" METAL CULVERT	145	16.10	52.8
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARKAPORT	
Ref Mon # 2 PLEASANT	
Ref Mon # 3 NONE	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 15 58.3948152
Longitude	93 29 11.0100120
Ellipsoid Height (M):	136.499
Geoid Height (M):	-28.058

Location Description
<p>FROM THE JCT. OF HWY. 8 AND HWY. 84 IN THE CENTER OF THE TOWN OF AMITY, GO WEST ON HWY. 8 FOR 2.34 KM (1.46 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 0.56 KM (0.36 MILES) WEST OF THE PIKE -CLARK COUNTY LINE, JUST WEST OF THE CORNERSTONE FAMILY WORSHIP CENTER, 13.20 METERS NORTH OF THE CENTERLINE OF THE HWY. 8, 18.70 METERS WEST OF A DRIVEWAY AND 1.0 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "550001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

AZ Mark Station	550001A
Geodetic Azimuth	116 37 47.8
Grid Azimuth	117 27 42.71

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 550001A	Date Monumented 8/1/1994	Monumented By AHTD	County PIKE	Route 8	Job Number: 070063
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	578,338.6769	
Easting (M)	263,251.6880	
Elevation (M)*	162.420	
Northing (SFT)	1,897,432.8091	
Easting (SFT)	863,684.9130	
Elevation (SFT)*	532.873	

Convergence Angle	0	49	52.1123336
Scale Factor	0.999926583		
Elevation Adjust. Factor	0.9999745117		
Combined Adjust. Factor	0.9999010965		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	DOUBLE 8" GUM TREE	80	14.45	47.4
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 550001	THE COORDINATES ON THIS POINT WERE ARRIVED AT BY SOLAR OBSERVATION.
Ref Mon # 2 NONE	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 550007	Date Monumented 7/29/2003	Monumented By AHTD	County PIKE	Route 26	Job Number: 070237
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	552,904.3480	
Easting (M)	268,822.1110	
Elevation (M)*	90.818	
Northing (SFT)	1,813,987.0151	
Easting (SFT)	881,960.5425	
Elevation (SFT)*	297.960	

Convergence Angle	0	47	42.5223371
Scale Factor	0.999918471		
Elevation Adjust. Factor	0.9999857478		
Combined Adjust. Factor	0.9999042200		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	336	10.50	34.4
MK # 2	CHAINLINK GATE FENCE POST	340	0.40	1.3
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD LITTLE ROCK Ref Mon # 2 HOPE, DQUA Ref Mon # 3 100007,100007A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV BY 3WR FROM NGS X 137 - RV 542</td> </tr> </table>	Comments	ELEV BY 3WR FROM NGS X 137 - RV 542
Comments			
ELEV BY 3WR FROM NGS X 137 - RV 542			

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29/301/AND 26, IN ANTOINE, GO EAST ON HIGHWAY 26 0.05 MILES TO THE STATION ON THE LEFT. NORTH 10.3 METERS OF THE CENTERLINE AND 0.25 METERS SOUTH OF A WITNESS POST. THE STATION IS LOCATED AT THE SOUTHWEST CORNER OF ANTOINE CEMETERY. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "550007 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 2 13.4434212
Longitude	93 25 14.4719832
Ellipsoid Height (M):	63.774
Geoid Height (M):	-26.936

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 550007A	Date Monumented 7/29/2003	Monumented By AHTD	County PIKE	Route 26	Job Number: 070237
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	552,872.3611	
Easting (M)	268,478.1920	
Elevation (M)*	93.419	
Northing (SFT)	1,813,882.0714	
Easting (SFT)	880,832.2016	
Elevation (SFT)*	306.493	

Convergence Angle	0	47	50.0165501
Scale Factor	0.999918470		
Elevation Adjust. Factor	0.9999853397		
Combined Adjust. Factor	0.9999038109		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	242	10.20	33.5
MK # 2	GUY	222	5.40	17.7
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LITTLE ROCK	ELEV BY 3WR FROM NGS X 137 - RV 542
Ref Mon # 2 HOPE, DQUA	
Ref Mon # 3 100007,100007A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 550008	Date Monumented 2/6/2007	Monumented By AHTD	County PIKE	Route 70	Job Number: 080318
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	586,589.3349	
Easting (M)	261,673.8890	
Elevation (M)*	178.194	
Northing (SFT)	1,924,501.8429	
Easting (SFT)	858,508.4175	
Elevation (SFT)*	584.626	

Convergence Angle	0	50	29.2814380
Scale Factor	0.999932627		
Elevation Adjust. Factor	0.9999720363		
Combined Adjust. Factor	0.9999046652		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER CONCRETE DITCH	29	19.75	64.8
MK # 2	METAL FENCE POST	141	13.78	45.2
MK # 3	TELEPHONE PEDESTAL	68	33.59	110.2

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARHP Ref Mon # 3 DQUA	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.</td> </tr> </table>	Comments	3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.
Comments			
3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 70B, EAST OF GLENWOOD, GO EAST ON HIGHWAY 70 FOR 2.0 MILES TO THE STATION MARK ON THE RIGHT ON TOP OF A SMALL HILL SOUTH OF THE ROAD DITCH, SOUTHEAST 64.90 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTHEAST 1.50 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "550008 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 550009	Date Monumented 2/6/2007	Monumented By AHTD	County PIKE	Route 8	Job Number: 080318
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	585,602.6278
Easting (M)	256,886.9980
Elevation (M)*	168.011
Northing (SFT)	1,921,264.6214
Easting (SFT)	842,803.4259
Elevation (SFT)*	551.216

Convergence Angle	0 52 13.7681271
Scale Factor	0.999931756
Elevation Adjust. Factor	0.9999736343
Combined Adjust. Factor	0.9999053921

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	134	15.12	49.6
MK # 2	POWER POLE W/TRANSFORMER	224	27.80	91.2
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARHP Ref Mon # 3 DQUA	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.</td> </tr> </table>	Comments	3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.
Comments			
3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 550010	Date Monumented 2/24/2016	Monumented By AHTD	County PIKE	Route 70	Job Number: 030414, 030483
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	584,882.0617 0.0020
Easting (M)	255,948.1474 0.0020
Elevation (M)*	178.782

Northing (SFT)	1,918,900.5641	
Easting (SFT)	839,723.2136	
Elevation (SFT)*	586.553	

Convergence Angle	0	52	34.0818398
Scale Factor	0.999931168		
Elevation Adjust. Factor	0.9999719441		
Combined Adjust. Factor	0.9999031140		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

 TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 8 EAST, IN GLENWOOD, GO WEST ON HIGHWAY 70 0.6 MILES TO THE MARK ON THE RIGHT, NORTH OF THE CENTERLINE OF THE HIGHWAY 59 FEET. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 550010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER RED BRICK CHURCH	345	84.90	278.5
MK # 2	SOUTHWEST CORNER I-S-METAL BLDING	53	89.50	293.6
MK # 3	CHURCH SIGN	282	103.00	337.9

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARHP Ref Mon # 3 ARCM, OKHV	<div style="border: 1px solid black; padding: 5px;"> Comments ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM S 59 BY S5112 IN MARCH 2016 FOR JOB # 030414. </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 550010A	Date Monumented 2/24/2016	Monumented By AHTD	County PIKE	Route 70	Job Number: 030414, 030483
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	584,682.9318	0.0020			
Easting (M)	256,516.3942	0.0020			
Elevation (M)*	183.847				
Northing (SFT)	1,918,247.2521				
Easting (SFT)	841,587.5366				
Elevation (SFT)*	603.173				

Convergence Angle	0	52	21.5753387
Scale Factor	0.999931017		
Elevation Adjust. Factor	0.9999711492		
Combined Adjust. Factor	0.9999021682		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MARKER	105	3.00	9.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM S 59 BY S5112 IN MARCH 2016 FOR JOB # 030414.
Ref Mon # 2 ARHP	
Ref Mon # 3 ARCM, OKHV	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	34 19 18.9490656
Longitude	93 33 33.0563052
Ellipsoid Height (M):	156.109 0.0060
Geoid Height (M):	-27.713 0.0060

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 8 EAST, IN GLENWOOD, GO WEST ON HIGHWAY 70 0.25 MILES TO THE MARK ON THE LEFT, SOUTH 71 FEET OF THE CENTERLINE OF THE HIGHWAY AND 41 FEET NORTH OF THE CENTERLINE OF A SIDE ROAD PARALLELING THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 550010A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560001	Date Monumented 4/27/1999	Monumented By AHTD	County POINSETT	Route 1	Job Number: 001853
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	145,612.0080	
Easting (M)	516,527.1710	
Elevation (M)*	75.559	
Northing (SFT)	477,728.7296	
Easting (SFT)	1,694,639.5602	
Elevation (SFT)*	247.896	

Convergence Angle	0	44	55.3763171
Scale Factor	0.999936390		
Elevation Adjust. Factor	0.9999881425		
Combined Adjust. Factor	0.9999245332		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEWSPORT	Elevations based on 3 wire from NGS point F 76
Ref Mon # 2 AHTD PAR 1	
Ref Mon # 3 MEM 2	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 38 20.3312040
Longitude	90 42 47.9663928
Ellipsoid Height (M):	48.004
Geoid Height (M):	-27.558

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 158 EAST, LOCATED ABOUT 9.66 KM (6.00 MI) NORTH OF HARRISBURG, GO SOUTH ON STATE HIGHWAY 1 FOR 1.21 KM (0.75 MI) TO THE STATION ON THE RIGHT. THE STATION IS 21.153 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 1, 14.165 METERS SOUTHEAST OF THE CENTER OF DANA LANE AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560001 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	560001A
Geodetic Azimuth	215 11 53.92088
Grid Azimuth	214 26 58.53952

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560001A	Date Monumented 4/27/1999	Monumented By AHTD	County POINSETT	Route 1	Job Number: 001853
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 145,132.7400		Latitude 35 38 4.9202304
Easting (M) 516,198.3990		Longitude 90 43 1.2820440
Elevation (M)* 75.226		Ellipsoid Height (M): 47.672
Northing (SFT) 476,156.3312		Geoid Height (M): -27.554
Easting (SFT) 1,693,560.9141		
Elevation (SFT)* 246.804		

Convergence Angle 0 44 47.6279513	Scale Factor 0.999936322
Elevation Adjust. Factor 0.9999881947	Combined Adjust. Factor 0.9999245175

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 158 EAST, LOCATED ABOUT 9.66 KM (6.00 MI) NORTH OF HARRISBURG, GO SOUTH ON STATE HIGHWAY 1 FOR 1.85 KM (1.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 19.92 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 1, 10.75 METERS NORTHEAST OF THE CENTER OF A GRAVEL FIELD ENTRANCE AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560001A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST END CMP	244	6.40	21.0
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEWSPORT	
Ref Mon # 2 AHTD PAR 1	
Ref Mon # 3 MEM 2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560002	Date Monumented 4/27/1999	Monumented By AHTD	County POINSETT	Route 1	Job Number: 001853,100833
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 150,729.9100		Latitude 35 41 5.9024580
Easting (M) 517,657.2070		Longitude 90 42 0.3662640
Elevation (M)* 75.639		Ellipsoid Height (M): 48.032
		Geoid Height (M): -27.607

Northing (SFT) 494,519.7131		
Easting (SFT) 1,698,347.0200		
Elevation (SFT)* 248.159		

Convergence Angle 0 45 23.0747905		
Scale Factor 0.999937475		
Elevation Adjust. Factor 0.9999881299		
Combined Adjust. Factor 0.9999256057		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 158 EAST, LOCATED ABOUT 9.66 KM (6.00 MI) NORTH OF HARRISBURG, GO NORTH ON STATE HIGHWAY 1 FOR 3.86 KM (2.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 25.773 METERS EAST OF THE CENTER OF STATE HIGHWAY 1, 20.374 METERS NORTH OF THE CENTER OF A GRAVEL FIELD ENTRANCE, 19.181 METERS WEST OF THE WEST RAIL AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560002 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	USC&GS BM F 76	115	35.69	117.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station 560002A
Geodetic Azimuth 199 21 40.85478
Grid Azimuth 198 36 17.77614

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEWSPORT	Elevations based on 3 wire from NGS point F 76
Ref Mon # 2 AHTD PAR 1	
Ref Mon # 3 MEM 2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560002A	Date Monumented 4/27/1999	Monumented By AHTD	County POINSETT	Route 1	Job Number: 001853
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 150,337.9890		Latitude 35 40 53.2429320
Easting (M) 517,525.2730		Longitude 90 42 5.8186656
Elevation (M)* 75.457		Ellipsoid Height (M): 47.854
		Geoid Height (M): -27.603

Northing (SFT) 493,233.8856		
Easting (SFT) 1,697,914.1665		
Elevation (SFT)* 247.562		

Convergence Angle 0 45 19.9020428		
Scale Factor 0.999937369		
Elevation Adjust. Factor 0.9999881585		
Combined Adjust. Factor 0.9999255282		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 158 EAST, LOCATED ABOUT 9.66 KM (6.00 MI) NORTH OF HARRISBURG, GO NORTH ON STATE HIGHWAY 1 FOR 3.46 KM (2.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 23.57 METERS WEST OF THE CENTER OF STATE HIGHWAY 1, 11.83 METERS SOUTH OF THE CENTER OF A GRAVEL FIELD ENTRANCE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560002A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 COMBINATION POLE	14	4.70	15.4	AZ Mark Station 560002
MK # 2 NONE				Geodetic Azimuth 19 21 37.674381
MK # 3 NONE				Grid Azimuth 18 36 17.776140

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 NEWSPORT</p> <p>Ref Mon # 2 AHTD PAR 1</p> <p>Ref Mon # 3 MEM 2</p>	<p style="text-align: center; margin: 0;">Comments</p> <p style="margin: 5px 0 0 0;">Elevations based on 3 wire from NGS point F 76</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560003	Date Monumented 9/27/2000	Monumented By AHTD	County POINSETT	Route 63	Job Number: 001849
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 128,359.4285		Latitude 35 28 44.4164052
Easting (M) 549,882.7927		Longitude 90 20 53.7826920
Elevation (M)* 67.870		Ellipsoid Height (M): 40.318
		Geoid Height (M): -27.552

Northing (SFT) 421,125.8917	Easting (SFT) 1,804,073.7957	Location Description
Elevation (SFT)* 222.670		<p>TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 63 AND STATE HIGHWAY 118, LOCATED IN TYRONZA, GO SOUTHEAST ON U.S. HIGHWAY 63 FOR 1.05 KM (0.65 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN ON THE SOUTH END OF A BRIDGE. THE STATION IS 19.36 METERS NORTH OF THE CENTER OF THE SOUTHBOUND LANE OF U.S. HIGHWAY 63, 6.34 METERS SOUTH OF THE CENTER OF THE NORTHBOUND LANE OF U.S. HIGHWAY 63 AND 1.30 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560003 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USC&GS BENCH MARK G 174. THE SHOT DISTANCE IS 577.696 METERS.</p>
Convergence Angle 0 57 40.0986667		
Scale Factor 0.999937614		
Elevation Adjust. Factor 0.9999893491		
Combined Adjust. Factor 0.9999269638		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	GUARD RAIL POST	105	6.11	20.0	AZ Mark Station 560003A
MK # 2	SOUTHWEST CORNER OF NORTH BOUND B BRIDGE	309	2.49	8.2	Geodetic Azimuth 288 41 51.30166
MK # 3	SOUTHEAST CORNER OF SOUTH BOUND B BRIDGE	251	18.59	61.0	Grid Azimuth 287 44 11.21913

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 W 15 OFFSET Ref Mon # 2 MANIPORT Ref Mon # 3 MEM2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560003A	Date Monumented 9/27/2000	Monumented By AHTD	County POINSETT	Route 63	Job Number: 001849
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	128,535.4066	
Easting (M)	549,332.5889	
Elevation (M)*	66.206	
Northing (SFT)	421,703.2465	
Easting (SFT)	1,802,268.6687	
Elevation (SFT)*	217.211	

Convergence Angle	0	57	27.4672738
Scale Factor	0.999937561		
Elevation Adjust. Factor	0.9999896102		
Combined Adjust. Factor	0.9999271719		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 63 AND STATE HIGHWAY 118, LOCATED IN TYRONZA, GO SOUTHEAST ON U.S. HIGHWAY 63 FOR 0.48 KM (0.30 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 18.75 METERS NORTHEAST OF THE CENTER OF THE SOUTHBOUND LANE, 18.30 METERS SOUTHWEST OF THE CENTER OF THE NORTHBOUND LANE, AND 4.10 METERS WEST OF THE CENTER OF A GRASS CROSSOVER AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560003A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USC&GS BENCH MARK G 174. THE SHOT DISTANCE IS 577.696 METERS.</p>			

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					
MK # 2	NONE					
MK # 3	NONE					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 W 15 OFFSET</p> <p>Ref Mon # 2 MANIPORT</p> <p>Ref Mon # 3 MEM2</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560004	Date Monumented 10/2/2000	Monumented By AHTD	County POINSETT	Route 63	Job Number: 001849
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Zone	Zone Code	Vertical Determined By:
Arkansas North	301	LEVEL - Unkown Quality
Horizontal Datum	NAD 83 (1997)	
Northing (M)	125,513.5345	
Easting (M)	553,047.0859	
Elevation (M)*	66.864	
Northing (SFT)	411,788.9878	
Easting (SFT)	1,814,455.3143	
Elevation (SFT)*	219.370	

Convergence Angle	0	58	52.0084982
Scale Factor	0.999938550		
Elevation Adjust. Factor	0.9999895070		
Combined Adjust. Factor	0.9999280576		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 63 AND STATE HIGHWAY 118, LOCATED IN TYRONZA, GO SOUTHEAST ON U.S. HIGHWAY 63 FOR 5.47 KM (3.40 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 22.40 METERS SOUTHWEST OF THE CENTER OF THE NORTHBOUND LANE OF U.S. HIGHWAY 63, 18.00 METERS NORTHEAST OF THE CENTER OF THE SOUTHBOUND LANE OF U.S. HIGHWAY 63, 16.00 METERS SOUTHEAST OF A PAVED CROSSOVER AND 0.46 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560004 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USC&GS BENCH MARK K 174. THE SHOT DISTANCE IS 656.796 METERS.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE				560004A	
MK # 2	NONE				145 51 07.11447	
MK # 3	NONE				144 52 15.09216	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 W 15 OFFSET	
Ref Mon # 2 MANIPORT	
Ref Mon # 3 MEM2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560004A	Date Monumented 10/2/2000	Monumented By AHTD	County POINSETT	Route 63	Job Number: 001849
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	124,976.4033	
Easting (M)	553,424.9964	
Elevation (M)*	66.524	
Northing (SFT)	410,026.7498	
Easting (SFT)	1,815,695.1757	
Elevation (SFT)*	218.254	

Convergence Angle	0	59	0.5154233
Scale Factor	0.999938749		
Elevation Adjust. Factor	0.9999895603		
Combined Adjust. Factor	0.9999283100		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 63 AND STATE HIGHWAY 118, LOCATED IN TYRONZA, GO SOUTHEAST ON U.S. HIGHWAY 63 FOR 6.12 KM (3.80 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 13.20 METERS EAST-NORTHEAST OF THE CENTER OF THE SOUTHBOUND LANE, 12.00 METERS WEST-SOUTHWEST OF THE CENTER OF THE NORTHBOUND LANE OF U.S. HIGHWAY 63 AND 0.50 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560004A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USC&GS BENCH MARK K 174. THE SHOT DISTANCE IS 656.796.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 W 15 OFFSET</p> <p>Ref Mon # 2 MANIPORT</p> <p>Ref Mon # 3 MEM2</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560005	Date Monumented 8/1/2001	Monumented By AHTD	County POINSETT	Route 14	Job Number: 100381
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	138,047.4500	
Easting (M)	524,611.6060	
Elevation (M)*		
Northing (SFT)	452,910.6755	
Easting (SFT)	1,721,163.2440	
Elevation (SFT)*		

Convergence Angle	0	47	59.9100248
Scale Factor	0.999935967		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER BRIDGE	0	10.00	32.8
MK # 2	CONCRETE GUARDRAIL POST	40	12.80	42.0
MK # 3	TELEPHONE JUNCTION BOX	127	13.85	45.4

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>L 314</td> </tr> <tr> <td>Ref Mon # 2</td> <td>W 15 OFFSET</td> </tr> <tr> <td>Ref Mon # 3</td> <td>560002</td> </tr> </table>	Ref Mon # 1	L 314	Ref Mon # 2	W 15 OFFSET	Ref Mon # 3	560002	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	L 314						
Ref Mon # 2	W 15 OFFSET						
Ref Mon # 3	560002						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 34 11.3488140
Longitude	90 37 30.8432028
Ellipsoid Height (M):	38.513
Geoid Height (M):	-27.554

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 14, LOCATED IN HARRISBURG, GO EAST ON STATE HIGHWAY 14 FOR 9.576 KM (5.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.70 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 14, 9.00 METERS WEST OF A FIELD ENTRANCE, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "560005 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 803.580 METERS.</p>

AZ Mark Station	560005A
Geodetic Azimuth	272 42 08
Grid Azimuth	271 54 08

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560005A	Date Monumented 8/1/2001	Monumented By AHTD	County POINSETT	Route 14	Job Number: 100381
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	138,074.1210	
Easting (M)	523,808.5300	
Elevation (M)*		
Northing (SFT)	452,998.1786	
Easting (SFT)	1,718,528.4855	
Elevation (SFT)*		

Convergence Angle	0	47	41.3610027
Scale Factor	0.999935965		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER BRIDGE	212	9.25	30.3
MK # 2	POWER POLE	70	16.70	54.8
MK # 3	CONCRETE GUARDRAIL POST	182	7.75	25.4

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>L 314</td> </tr> <tr> <td>Ref Mon # 2</td> <td>W 15 OFFSET</td> </tr> <tr> <td>Ref Mon # 3</td> <td>560002</td> </tr> </table>	Ref Mon # 1	L 314	Ref Mon # 2	W 15 OFFSET	Ref Mon # 3	560002	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	L 314							
Ref Mon # 2	W 15 OFFSET							
Ref Mon # 3	560002							
Comments								

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 34 12.5768280

Longitude 90 38 2.7198996

Ellipsoid Height (M): 39.444

Geoid Height (M): -27.548

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 14, LOCATED IN HARRISBURG, GO EAST ON STATE HIGHWAY 14 FOR 8.787 KM (5.46 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.70 METERS NORTH OF THE CENTER OF STATE HIGHWAY 14, 8.00 METERS WEST OF THE CENTER OF DITCH 26 LANE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "560005A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 803.580 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560006	Date Monumented 12/19/2002	Monumented By AHTD	County POINSETT	Route 163	Job Number: 100208
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	152,705.3499	
Easting (M)	521,332.5700	
Elevation (M)*		
Northing (SFT)	501,000.8021	
Easting (SFT)	1,710,405.2734	
Elevation (SFT)*		

Convergence Angle	0	46	48.7500883
Scale Factor	0.999938052		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	351	7.90	25.9
MK # 2	POWER POLE	133	33.50	109.9
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 BULTER, PARAGOULD Ref Mon # 2 MEM2 Ref Mon # 3 480016	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description
TO REACH THE STATION FROM U.S. STATE HIGHWAY 163 AND HIGHWAY 1, SOUTH OF JONESBORO, GO SOUTH ON HIGHWAY 163 5.3 MILES TO THE STATION ON THE RIGHT. 12.2 METERS SOUTH OF CENTER OF A FIELD ROAD, 11.20 METERS WEST OF THE CENTER OF THE ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560006 2002" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	560006A	
Geodetic Azimuth	180 56 42	
Grid Azimuth	180 09 53	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560006A	Date Monumented 12/19/2002	Monumented By AHTD	County POINSETT	Route 163	Job Number: 100208
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	152,042.0530	
Easting (M)	521,330.6630	
Elevation (M)*		
Northing (SFT)	498,824.6356	
Easting (SFT)	1,710,399.0169	
Elevation (SFT)*		

Convergence Angle	0	46	48.4968896
Scale Factor	0.999937843		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION FROM U.S. STATE HIGHWAY 163 AND HIGHWAY 1, SOUTH OF JONESBORO, GO SOUTH ON HIGHWAY 163 5.7 MILES TO THE STATION ON THE RIGHT. 11.85 METERS WEST OF THE CENTER OF THE HIGHWAY AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560006A 2002" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 BULTER, PARAGOULD Ref Mon # 2 MEM2 Ref Mon # 3 480016	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560007	Date Monumented 11/1/2007	Monumented By AHTD	County Poinsett	Route 214	Job Number: 100644
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	142,044.3620	
Easting (M)	526,151.0440	
Elevation (M)*	65.863	
Northing (SFT)	466,023.8777	
Easting (SFT)	1,726,213.8835	
Elevation (SFT)*	216.084	

Convergence Angle	0	48	36.7895607
Scale Factor	0.999936005		
Elevation Adjust. Factor	0.9999896641		
Combined Adjust. Factor	0.9999256698		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Well	305	31.69	104.0
MK # 2	Power Pole	217	23.47	77.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT, R 314 Ref Mon # 2 ARPG Ref Mon # 3 ZME1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels ran by Crew S5102 in October 2007 from 1st Order NGS mark R 314.</td> </tr> </table>	Comments	3-Wire Levels ran by Crew S5102 in October 2007 from 1st Order NGS mark R 314.
Comments			
3-Wire Levels ran by Crew S5102 in October 2007 from 1st Order NGS mark R 314.			

Location Description
The station is located at the junction of highways 214 and 373 approx. 7.0 miles southwest of Truman and 6.50 miles northeast of Harrisburg. 20 feet north of the center of hwy-214, 13.0 feet east of the center of a field road and 1.5 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "560007 2007" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560007A	Date Monumented 11/1/2007	Monumented By AHTD	County Poinsett	Route 373	Job Number: 100644
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	141,264.9880	
Easting (M)	526,148.0440	
Elevation (M)*	64.999	
Northing (SFT)	463,466.8815	
Easting (SFT)	1,726,204.0410	
Elevation (SFT)*	213.250	

Convergence Angle	0	48	36.4654287
Scale Factor	0.999935967		
Elevation Adjust. Factor	0.9999897997		
Combined Adjust. Factor	0.9999257673		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	16 in Cmp	282	3.04	10.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT, R 314	3-Wire Levels ran by Crew S5102 in October 2007 from 1st Order NGS mark R 314.
Ref Mon # 2 ARPG	
Ref Mon # 3 ZME1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560008	Date Monumented 7/10/2010	Monumented By AHTD	County Poinsett	Route 1	Job Number: 100688
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	137,958.0681	
Easting (M)	515,631.9800	
Elevation (M)*	81.277	
Northing (SFT)	452,617.4284	
Easting (SFT)	1,691,702.5877	
Elevation (SFT)*	266.656	

Convergence Angle	0	44	32.3784439
Scale Factor	0.999935966		
Elevation Adjust. Factor	0.9999872452		
Combined Adjust. Factor	0.9999232120		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	light pole	329	16.31	53.5
MK # 2	South East edge of Splash car wash sign	308	8.53	28.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG Ref Mon # 2 NEWSPORT Ref Mon # 3 ZME1	Digital Levels were ran by crew S5103 from NGS mark W 182 to Z 182 during Job 100688 in Oct. 2010.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560008A	Date Monumented 7/10/2010	Monumented By AHTD	County Poinsett	Route 1	Job Number: 100688
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	138,557.6930	
Easting (M)	515,703.5840	
Elevation (M)*	82.306	
Northing (SFT)	454,584.6978	
Easting (SFT)	1,691,937.5085	
Elevation (SFT)*	270.033	

Convergence Angle	0	44	34.2127605
Scale Factor	0.999935947		
Elevation Adjust. Factor	0.9999870836		
Combined Adjust. Factor	0.9999230314		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Southwest corner of the Unico bank sign post	5	32.00	105.0
MK # 2	Center of West entrance double doors to bank	39	36.88	121.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 NEWSPORT Ref Mon # 3 ZME1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital Levels were ran by crew S5103 from NGS mark W 182 to Z 182 during Job 100688 in Oct. 2010.</td> </tr> </table>	Comments	Digital Levels were ran by crew S5103 from NGS mark W 182 to Z 182 during Job 100688 in Oct. 2010.
Comments			
Digital Levels were ran by crew S5103 from NGS mark W 182 to Z 182 during Job 100688 in Oct. 2010.			

Location Description
To reach from the intersection of highway 1 and highway 14 in Harrisburg, go north 0.7 miles on highway 1 to the station on the right, set in grass lot south of the Unico bank, 52 feet east of highway 1 and 1.5 feet west of the witness post. The station mark is a 2 1/2 inch cap stamped "560008A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560009	Date Monumented 7/12/2012	Monumented By AHTD	County poinsett	Route 214	Job Number: 100764
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	146,889.5393	
Easting (M)	498,670.6270	
Elevation (M)*	74.643	
Northing (SFT)	481,920.0969	
Easting (SFT)	1,636,055.2154	
Elevation (SFT)*	244.892	

Convergence Angle	0	38	2.7024800
Scale Factor	0.999936641		
Elevation Adjust. Factor	0.9999882862		
Combined Adjust. Factor	0.9999249279		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
Starting at the poinsett county line go South on highway 49 for 3.875 miles to state highway 214. The go west on 214 for 1.575 miles to the station on the right. The station is a standard alum. cap stamped (560009-2012) and set on top of a 4 foot' 5/8" rebar. 34' north of the cl of 214 and 2' south of a witness post. Lat. 35.3909 Lon. 90.5437			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	power pole	145	27.10	88.9	
MK # 2	power pole with guy	80	14.95	49.0	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Comments</td> </tr> <tr> <td> ELEV. WAS EST BY 3WR DIGITAL LEVEL RUN FROM NGS BM W 180 BY CREW S5102 DURING JOB 100764 IN JULY 2012. </td> </tr> </table>	Comments	ELEV. WAS EST BY 3WR DIGITAL LEVEL RUN FROM NGS BM W 180 BY CREW S5102 DURING JOB 100764 IN JULY 2012.
Comments			
ELEV. WAS EST BY 3WR DIGITAL LEVEL RUN FROM NGS BM W 180 BY CREW S5102 DURING JOB 100764 IN JULY 2012.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560009A	Date Monumented 7/12/2012	Monumented By AHTD	County poinsett	Route 214	Job Number: 100764
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	146,869.6160	
Easting (M)	498,208.7203	
Elevation (M)*	74.844	
Northing (SFT)	481,854.7318	
Easting (SFT)	1,634,539.7765	
Elevation (SFT)*	245.551	

Convergence Angle	0	37	52.0122552
Scale Factor	0.999936638		
Elevation Adjust. Factor	0.9999882547		
Combined Adjust. Factor	0.9999248934		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	telephone box	291	2.74	9.0
MK # 2	18" cmp	62	5.20	17.1
MK # 3	24" red oak	106	22.86	75.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. WAS EST BY 3WR DIGITAL LEVEL RUN FROM NGS BM W 180 BY CREW S5102 DURING JOB 100764 IN JULY 2012.</td> </tr> </table>	Comments	ELEV. WAS EST BY 3WR DIGITAL LEVEL RUN FROM NGS BM W 180 BY CREW S5102 DURING JOB 100764 IN JULY 2012.
Comments			
ELEV. WAS EST BY 3WR DIGITAL LEVEL RUN FROM NGS BM W 180 BY CREW S5102 DURING JOB 100764 IN JULY 2012.			

Location Description
Starting at the poinsett county line go south on highway 49 for 3.875 miles to state highway 214. Go west on 214 for 1.875 miles to the station on the left. The station is a standard alum. cap stamped (560009A-2012) and set on top of a 4' long 5/8" rebar. 27' south of cl of 214 and 2' south of a witness post

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560010	Date Monumented 11/5/2013	Monumented By AHTD	County POINSETT	Route 140	Job Number: BR5611
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	137,781.0996	
Easting (M)	543,550.9027	
Elevation (M)*	65.127	
Northing (SFT)	452,036.8243	
Easting (SFT)	1,783,299.9199	
Elevation (SFT)*	213.670	

Convergence Angle	0	55	17.4483122
Scale Factor	0.999935992		
Elevation Adjust. Factor	0.9999897796		
Combined Adjust. Factor	0.9999257723		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	3	43.28	142.0	560010A
MK # 2	WOODEN SIGN (THREE RIVERS COUNTRY CLUB)	271	6.10	20.0	
MK # 3	TELEPHONE BOX	199	3.96	13.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	3WR digital levels were ran from NGS BM N 314 and A 174 during job BR5611 by crew S5102 in Novwember 2013.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560010A	Date Monumented 11/5/2013	Monumented By AHTD	County POINSETT	Route 140	Job Number: BR5611
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	137,362.2747	
Easting (M)	543,552.8532	
Elevation (M)*	65.592	
Northing (SFT)	450,662.7296	
Easting (SFT)	1,783,306.3192	
Elevation (SFT)*	215.197	

Convergence Angle	0	55	17.3377279
Scale Factor	0.999936017		
Elevation Adjust. Factor	0.9999897066		
Combined Adjust. Factor	0.9999257242		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	276	2.74	9.0
MK # 2	CENTER OF HEADWALL	175	17.68	58.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3WR digital levels were ran from NGS BM N 314 and A 174 during job BR5611 by crew S5102 in Novwember 2013.</td> </tr> </table>	Comments	3WR digital levels were ran from NGS BM N 314 and A 174 during job BR5611 by crew S5102 in Novwember 2013.
Comments			
3WR digital levels were ran from NGS BM N 314 and A 174 during job BR5611 by crew S5102 in Novwember 2013.			

Location Description
TO REACH FROM THE JUNCTION OF HWY 140 AND HWY 308B IN MARKED TREE. GO NORTH ON HWY 140 FOR 2.0 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.0 FT. EAST OF THE WITNESS POST AND 44.0 FT. WEST OF THE CENTERLINE OF HWY 140. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "560010A 2013" SET ON TOP OF A 5/8 IN. BY 4.0 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560011	Date Monumented 6/27/2016	Monumented By AHTD	County Poinsett	Route 463	Job Number: 100615
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	149,159.3508	0.0023			
Easting (M)	534,481.8841	0.0025			
Elevation (M)*	66.991				
Northing (SFT)	489,366.9701				
Easting (SFT)	1,753,545.9814				
Elevation (SFT)*	219.785				

Convergence Angle	0	51	51.8637125		
Scale Factor	0.999937017				
Elevation Adjust. Factor	0.9999894871				
Combined Adjust. Factor	0.9999265048				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 463, IN TRUMAN, GO SOUTHEAST ON HIGHWAY 463 FOR .85 MILES TO THE MARK ON THE RIGHT, 38.5 FEET (11.73M) WEST OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "560011 2016" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	CENTER OF DROP INLET		125	24.08	79.0
MK # 2	CENTER OF DROP INLET		305	8.38	27.5
MK # 3	LIGHT POLE		255	26.61	87.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	MARK IS 59.2 FEET (18.04M) SOUTH OF THE CENTERLINE OF THE SECOND CONCRETE DRIVEWAY TO THE POST OFFICE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560011-1	Date Monumented 7/18/2016	Monumented By AHTD	County POINSETT	Route 308	Job Number: 100840
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	136,053.4630	0.0040			
Easting (M)	548,446.6176	0.0040			
Elevation (M)*					
Northing (SFT)	446,368.7365				
Easting (SFT)	1,799,361.9446				
Elevation (SFT)*					

Convergence Angle	0	57	9.9034787		
Scale Factor	0.999936128				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 308 AND STATE HIGHWAY 135, EAST OF MARKED TREE, GO WEST ON HIGHWAY 308 2.3 MILES TO THE MARK ON THE RIGHT, NORTH 25.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND 11.5 FEET OF EAST OF A DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "560011 2016" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARPG</p> <p>Ref Mon # 2 ARWY</p> <p>Ref Mon # 3 ARJB</p>	<p style="text-align: center;">Comments</p> <p>GPS DERIVED ELEV. BASED ON CONSTRAINTS ON NGS BM R 314 AND CORS ARJB, ARPG & ARWY IN FINAL STATIC NETWORK ADJUSTMENT.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560011A	Date Monumented 6/27/2016	Monumented By AHTD	County Poinsett	Route 463	Job Number: 100615
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	148,842.8769	0.0023			
Easting (M)	534,830.6687	0.0025			
Elevation (M)*	66.957				
Northing (SFT)	488,328.6720				
Easting (SFT)	1,754,690.2856				
Elevation (SFT)*	219.673				

Convergence Angle	0	51	59.8224795
Scale Factor	0.999936944		
Elevation Adjust. Factor	0.9999894925		
Combined Adjust. Factor	0.9999264371		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	135	20.24	66.4
MK # 2	COMBINATION POLE	320	9.86	32.3
MK # 3	EAST END OF SIDEWALK	223	33.25	109.1

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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Vertical Determined By:	3rd Order - 3 Wire Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12B
Latitude	35 39 56.7853560
Longitude	90 30 38.5510320
Ellipsoid Height (M):	39.120 0.0069
Geoid Height (M):	-27.832

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 463, IN TRUMAN, GO SOUTHEAST ON HIGHWAY 463 FOR 1.15 MILES TO THE MARK ON THE RIGHT, 53.0 FEET (16.15M) WEST OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "560011A 2016" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560011A-1	Date Monumented 7/18/2016	Monumented By AHTD	County POINSETT	Route 308	Job Number: 100840
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	136,044.7862	0.0040			
Easting (M)	547,921.1760	0.0040			
Elevation (M)*					
Northing (SFT)	446,340.2694				
Easting (SFT)	1,797,638.0583				
Elevation (SFT)*					

Convergence Angle	0	56	57.7618985
Scale Factor	0.999936128		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG	GPS DERIVED ELEV. BASED ON CONSTRAINTS ON NGS BM R 314 AND CORS ARJB, ARPG & ARWY IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARWY	
Ref Mon # 3 ARJB	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560012	Date Monumented 6/27/2016	Monumented By AHTD	County Poinsett	Route 463	Job Number: 100615
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	151,442.0207	0.0020			
Easting (M)	532,894.5090	0.0021			
Elevation (M)*	67.379				
Northing (SFT)	496,856.0296				
Easting (SFT)	1,748,338.0683				
Elevation (SFT)*	221.061				

Convergence Angle	0	51	15.9255083
Scale Factor	0.999937615		
Elevation Adjust. Factor	0.9999894261		
Combined Adjust. Factor	0.9999270417		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	250	250	19.81	65.0	560012A
MK # 2	270	270	10.21	33.5	
MK # 3	70	70	5.94	19.5	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	THE MARK IS 51.0 FEET (15.54M) NORTH OF THE CENTERLINE OF STATE HIGHWAY 214.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560012A	Date Monumented 6/27/2016	Monumented By AHTD	County Poinsett	Route 463	Job Number: 100615
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	151,450.7889	0.0020			
Easting (M)	533,345.1501	0.0021			
Elevation (M)*	67.660				
Northing (SFT)	496,884.7966				
Easting (SFT)	1,749,816.5466				
Elevation (SFT)*	221.981				

Convergence Angle	0	51	26.3573559
Scale Factor	0.999937616		
Elevation Adjust. Factor	0.9999893821		
Combined Adjust. Factor	0.9999269987		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF STORM MANHOLE	230	7.71	25.3
MK # 2	FIRE HYDRANT	100	29.44	96.6
MK # 3	MONINTERING WELL	65	2.65	8.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	THE MARK IS 44.0 FEET (13.41M) EAST OF THE CENTERLINE OF ROBERTSON ROAD. <div style="height: 100px; border: 1px solid black;"></div>

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	3rd Order - 3 Wire Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12B
Latitude	35 41 22.1229600
Longitude	90 31 36.0612120
Ellipsoid Height (M):	39.805 0.0065
Geoid Height (M):	-27.847

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 463, IN TRUMAN, GO NORTH ON HIGHWAY 463 FOR 0.85 MILES TO STATE HIGHWAY 214 INDUSTRIAL PARK DRIVE, THEN GO EAST ON STATE HIGHWAY 214 INDUSTRIAL PARK DRIVE 0.25 MILES TO THE MARK ON THE LEFT, 46.5 FEET (14.17M) NORTH OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "560012A 2016" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560013	Date Monumented 12/4/2019	Monumented By AHTD	County POINSETT	Route 118	Job Number: 101017, AIRBORNE 2020
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	132,042.4048	0.0030			
Easting (M)	549,441.9259	0.0020			
Elevation (M)*					
Northing (SFT)	433,209.1231				
Easting (SFT)	1,802,627.3852				
Elevation (SFT)*					

Convergence Angle	0	57	31.3455165
Scale Factor	0.999936720		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	IRRIGATION WELL	183	7.62	25.0
MK # 2	POWER POLE	95	53.95	177.0
MK # 3	POWER POLE	271	53.34	175.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG Ref Mon # 2 AROC Ref Mon # 3 ARWY	STATIC GPS DERIVED ELEV. 217.9763

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560013A	Date Monumented 12/4/2019	Monumented By AHTD	County POINSETT	Route 118	Job Number: 101017, AIRBORNE 2020
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	132,037.5123	0.0030			
Easting (M)	549,815.5604	0.0020			
Elevation (M)*	66.796				
Northing (SFT)	433,193.0716				
Easting (SFT)	1,803,853.2177				
Elevation (SFT)*	219.146				

Convergence Angle	0	57	39.9710555
Scale Factor	0.999936723		
Elevation Adjust. Factor	0.9999895177		
Combined Adjust. Factor	0.9999262413		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	183	3.66	12.0
MK # 2	POWER POLE	13	31.70	104.0
MK # 3	EAST END OF 18" METAL CULVERT	300	36.58	120.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 AROC Ref Mon # 3 ARWY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS FROM GPS #560013, WHOSE ELEVATION IS STATIC GPS DERIVED</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM GPS #560013, WHOSE ELEVATION IS STATIC GPS DERIVED
Comments			
ELEV. BASED ON DIGITAL LEVELS FROM GPS #560013, WHOSE ELEVATION IS STATIC GPS DERIVED			

Location Description
TO REACH FROM THE INTERSECTION OF INTERSTATE I-555 AND STATE HIGHWAY 118 IN TYRONZA, POINSETT COUNTY, ARKANSAS. TRAVEL EAST ALONG STATE HIGHWAY 118, 2.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 560013, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 29 FEET SOUTH OF THE CENTER OF STATE HIGHWAY 118 AND 11 FEET NORTH OF A WITNESS POST. 21 FEET WEST OF THE CENTER OF A GRAVEL FIELD ENTRANCE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560014	Date Monumented 12/4/2019	Monumented By AHTD	County POINSETT	Route 135	Job Number: 101017, AIRBORNE 2020
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	138,467.0967 0.0040
Easting (M)	552,016.1884 0.0040
Elevation (M)*	

Northing (SFT)	454,287.4664	
Easting (SFT)	1,811,073.1114	
Elevation (SFT)*		

Convergence Angle	0	58	33.3135204
Scale Factor	0.999935967		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	162	18.90	62.0
MK # 2	IRRIGATION WELL	185	26.82	88.0
MK # 3	POWER POLE	9	64.31	211.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG Ref Mon # 2 AROC Ref Mon # 3 ARWY	STATIC GPS DERIVED ELEV. 219.9146

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560014A	Date Monumented 12/4/2019	Monumented By AHTD	County POINSETT	Route 135	Job Number: 101017, AIRBORNE 2020
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	138,449.2087	0.0040			
Easting (M)	552,392.9370	0.0040			
Elevation (M)*	67.034				
Northing (SFT)	454,228.7789				
Easting (SFT)	1,812,309.1608				
Elevation (SFT)*	219.928				

Convergence Angle	0	58	42.0119765		
Scale Factor	0.999935968				
Elevation Adjust. Factor	0.9999894803				
Combined Adjust. Factor	0.9999254489				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH FROM THE INTERSECTION OF STATE HIGHWAY 140 AND STATE HIGHWAY 135 IN LEPANTO, POINSETT COUNTY, ARKANSAS. TRAVEL SOUTH ALONG STATE HIGHWAY 135, 3.4 MILES TO POINSETT COUNTY ROAD NUMBER , THEN TRAVEL EAST ALONG POINSETT COUNTY ROAD NUMBER 86 (ALTO RD) TO THE STATION ON THE RIGHT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 560014A, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 25 FEET SOUTH OF THE CENTER OF POINSETT COUNTY ROAD NUMBER 86 AND 2 FEET NORTH OF A WITNESS POST. NEAR END OF PRIVATE AIR STRIP RUNNING NORTH AND SOUTH.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	TELEPHONE PEDESTAL		182	3.66	12.0
MK # 2	POWER POLE		11	14.94	49.0
MK # 3	N. W. COR. BLOCK ENCLOSURE AROUND F		115	31.39	103.0

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARPG	ELEV. BASED ON DIGITAL LEVELS FROM GPS #560014, WHOSE ELEVATION IS STATIC GPS DERIVED
Ref Mon # 2	AROC	
Ref Mon # 3	ARWY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560015	Date Monumented 12/4/2019	Monumented By AHTD	County POINSETT	Route 135	Job Number: 101012, AIRBORNE 2020
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	151,306.1406 0.0020
Easting (M)	550,127.5952 0.0020
Elevation (M)*	

Northing (SFT)	496,410.2296	
Easting (SFT)	1,804,876.9519	
Elevation (SFT)*		

Convergence Angle	0	57	54.6718308
Scale Factor	0.999937499		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	270	3.35	11.0
MK # 2	POWER POLE	72	25.91	85.0
MK # 3	TELEPHONE PEDESTAL	358	27.74	91.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AROC Ref Mon # 2 ARPG Ref Mon # 3 ARWY	STATIC GPS DERIVED ELEV. 220.1971

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560015A	Date Monumented 12/4/2019	Monumented By AHTD	County POINSETT	Route 135	Job Number: 101012, AIRBORNE 2020
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	151,741.4218 0.0020
Easting (M)	550,121.9780 0.0020
Elevation (M)*	67.107
Northing (SFT)	497,838.3147
Easting (SFT)	1,804,858.5228
Elevation (SFT)*	220.167

Convergence Angle	0 57 54.7115447
Scale Factor	0.999937623
Elevation Adjust. Factor	0.9999894688
Combined Adjust. Factor	0.9999270925

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	272	2.13	7.0
MK # 2	SOUTH END OF A 18" METAL CULVERT	16	7.01	23.0
MK # 3	PLASTIC UTILITY MARKER (RITTER COM.)	101	22.25	73.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AROC Ref Mon # 2 ARPG Ref Mon # 3 ARWY	ELEV. BASED ON DIGITAL LEVELS FROM GPS #560015 WHOSE ELEVATION IS STATIC GPS DERIVED

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570001	Date Monumented 2/2/1994	Monumented By AHTD	County POLK	Route 71	Job Number: 40029
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 584,952.4039		Latitude 34 18 42.8833296
Easting (M) 184,122.0610		Longitude 94 20 44.5278084
Elevation (M)* 322.628		Ellipsoid Height (M): 293.049
		Geoid Height (M): -29.579

Northing (SFT) 1,919,131.3451		
Easting (SFT) 604,073.7951		
Elevation (SFT)* 1,058.489		

Convergence Angle -1 18 46.3235691		
Scale Factor 0.999930158		
Elevation Adjust. Factor 0.9999493717		
Combined Adjust. Factor 0.9998795332		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
<p>FROM THE JCT. OF HWY. 71 AND HWY. 4 IN WICKES, GO NORTH ON HWY. 71 FOR 1.07 KM (0.67 MILES) TO THE STATION ON THE LEFT. THE STATION IS 12.29 METERS SOUTHWEST OF THE CENTERLINE OF HWY. 71 AND 0.75 METERS NORTHEAST OF A WITNESS POST. THE STATION IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "570001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>				

Location Reference Marks				
	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GAS METER	178	14.57	47.8
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HELMPORT	
Ref Mon # 2 MENAPORT	
Ref Mon # 3 GILLHAM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570001A	Date Monumented 2/2/1994	Monumented By AHTD	County POLK	Route 71	Job Number: 40029
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	584,280.3299	
Easting (M)	184,562.7480	
Elevation (M)*	319.157	
Northing (SFT)	1,916,926.3823	
Easting (SFT)	605,519.6157	
Elevation (SFT)*	1,047.101	

Convergence Angle	-1	18	36.3423695
Scale Factor	0.999929660		
Elevation Adjust. Factor	0.9999499164		
Combined Adjust. Factor	0.9998795799		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	328	42.40	139.1
MK # 2	COMBINATION POLE	141	22.23	72.9
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HELMPORT	
Ref Mon # 2 MENAPORT	
Ref Mon # 3 GILLHAM	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 18 21.4037244
Longitude	94 20 26.6943876
Ellipsoid Height (M):	289.617
Geoid Height (M):	-29.540

Location Description
<p>FROM THE JCT. OF HWY. 71 AND HWY. 4 IN WICKES, GO NORTH ON HWY. 71 FOR 0.27 KM (0.17 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 13.119 METERS EAST NORTHEAST OF THE CENTERLINE OF HWY. 71 AND 0.50 METERS WEST SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "570001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

AZ Mark Station	570001
Geodetic Azimuth	325 26 11.89421
Grid Azimuth	326 44 48.20137

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570002	Date Monumented 8/16/2000	Monumented By AHTD	County POLK	Route 270	Job Number: 040398, 040353
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	627,330.5644	
Easting (M)	184,445.7327	
Elevation (M)*		
Northing (SFT)	2,058,167.0267	
Easting (SFT)	605,135.7080	
Elevation (SFT)*		

Convergence Angle	-1	19	0.5596729
Scale Factor	0.999984589		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO WEST ON U.S. HIGHWAY 270 FOR 13.95 KM (8.67 MI) TO THE JUNCTION OF STATE HIGHWAY 272 ON THE LEFT, CONTINUE WEST ON U.S. HIGHWAY 270 FOR 1.42 KM (0.88 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.95 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.32 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570002 2000" SET ON TOP OF AN IRON ROD 0.61 METERS AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 659.129.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: Q 299</p> <p>Ref Mon # 2: MENAPORT AZ MK</p> <p>Ref Mon # 3:</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570002A	Date Monumented 8/16/2000	Monumented By AHTD	County POLK	Route 270	Job Number: 040398, 040353
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	627,000.8639	
Easting (M)	185,016.4228	
Elevation (M)*		
Northing (SFT)	2,057,085.3343	
Easting (SFT)	607,008.0471	
Elevation (SFT)*		

Convergence Angle	-1	18	47.8470489
Scale Factor	0.999984017		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	Q 299
Ref Mon # 2	MENAPORT AZ MK
Ref Mon # 3	

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 41 27.8298780
Longitude	94 20 47.2498116
Ellipsoid Height (M):	454.958
Geoid Height (M):	-30.619

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO WEST ON U.S. HIGHWAY 270 FOR 13.95 KM (0.88 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.97 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570002A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 659.129 METERS.</p>

AZ Mark Station	570002
Geodetic Azimuth	298 42 09.84156
Grid Azimuth	300 00 57.58101

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570003	Date Monumented 8/16/2000	Monumented By AHTD	County POLK	Route 270	Job Number: 040353
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	625,652.1704	
Easting (M)	189,280.0255	
Elevation (M)*	446.371	
Northing (SFT)	2,052,660.4957	
Easting (SFT)	620,996.2170	
Elevation (SFT)*	1,464.469	

Convergence Angle	-1	17	13.4490253
Scale Factor	0.999981781		
Elevation Adjust. Factor	0.9999299547		
Combined Adjust. Factor	0.9999117370		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	3 WIRE LEVELS FROM H 58
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570003A	Date Monumented 8/16/2000	Monumented By AHTD	County POLK	Route 270	Job Number: 040353
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	625,375.4057	
Easting (M)	189,690.8432	
Elevation (M)*	436.709	
Northing (SFT)	2,051,752.4769	
Easting (SFT)	622,344.0414	
Elevation (SFT)*	1,432.769	

Convergence Angle	-1	17	4.2823134
Scale Factor	0.999981308		
Elevation Adjust. Factor	0.9999314708		
Combined Adjust. Factor	0.9999127801		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF A CONCRETE HEADWALL	106	10.75	35.3
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	Q 299
Ref Mon # 2	MENAPORT AZ MK
Ref Mon # 3	

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 40 38.5326228
Longitude	94 17 42.2105784
Ellipsoid Height (M):	406.316
Geoid Height (M):	-30.472

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO WEST ON U.S. HIGHWAY 270 FOR 9.74 KM (6.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.12 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570003A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 495.380 METERS.</p>

AZ Mark Station	570003
Geodetic Azimuth	302 41 00.01106
Grid Azimuth	303 58 04.21742

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570004	Date Monumented 8/16/2000	Monumented By AHTD	County POLK	Route 270	Job Number: 040353
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	623,090.3347	
Easting (M)	193,466.7931	
Elevation (M)*	385.725	
Northing (SFT)	2,044,255.5398	
Easting (SFT)	634,732.3037	
Elevation (SFT)*	1,265.499	

Convergence Angle	-1	15	40.1779458
Scale Factor	0.999977486		
Elevation Adjust. Factor	0.9999394708		
Combined Adjust. Factor	0.9999169582		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CENTER OF A CONCRETE HEADWALL	298	20.90	68.6	
MK # 2	EAST END OF A CMP	280	27.00	88.6	
MK # 3	NONE				

Area Reference Monuments (used for Processing) Ref Mon # 1: Q 299 Ref Mon # 2: MENAPORT AZ MK Ref Mon # 3:	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 39 27.1172160
Longitude	94 15 11.9412072
Ellipsoid Height (M):	355.413
Geoid Height (M):	-30.330

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO WEST ON U.S. HIGHWAY 270 FOR 5.23 KM (3.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 32.00 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY, 15.60 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570004 2000" SET ON TOP OF AN IRON ROD 0.33 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 419.099 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK H 58.

AZ Mark Station	570004A
Geodetic Azimuth	89 49 05.055915
Grid Azimuth	91 04 45.307750

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570004A	Date Monumented 8/16/2000	Monumented By AHTD	County POLK	Route 270	Job Number: 040353
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	623,082.4413
Easting (M)	193,885.7882
Elevation (M)*	383.838
Northing (SFT)	2,044,229.6428
Easting (SFT)	636,106.9568
Elevation (SFT)*	1,259.309

Convergence Angle	-1	15	30.9664148
Scale Factor	0.999977488		
Elevation Adjust. Factor	0.9999397669		
Combined Adjust. Factor	0.9999172563		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>Q 299</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MENAPORT AZ MK</td> </tr> <tr> <td>Ref Mon # 3</td> <td></td> </tr> </table>	Ref Mon # 1	Q 299	Ref Mon # 2	MENAPORT AZ MK	Ref Mon # 3		<table style="width: 100%;"> <tr> <td style="width: 30%;">AZ Mark Station</td> <td>570004</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>269 49 14.41523</td> </tr> <tr> <td>Grid Azimuth</td> <td>271 04 45.30775</td> </tr> </table>	AZ Mark Station	570004	Geodetic Azimuth	269 49 14.41523	Grid Azimuth	271 04 45.30775
Ref Mon # 1	Q 299												
Ref Mon # 2	MENAPORT AZ MK												
Ref Mon # 3													
AZ Mark Station	570004												
Geodetic Azimuth	269 49 14.41523												
Grid Azimuth	271 04 45.30775												

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570005	Date Monumented 8/16/2000	Monumented By AHTD	County POLK	Route 71	Job Number: 040353
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	620,501.9659	
Easting (M)	197,915.3763	
Elevation (M)*	331.346	
Northing (SFT)	2,035,763.5331	
Easting (SFT)	649,327.3637	
Elevation (SFT)*	1,087.091	

Convergence Angle	-1	14	1.1912540
Scale Factor	0.999973304		
Elevation Adjust. Factor	0.9999480037		
Combined Adjust. Factor	0.9999213091		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE R/W MARKER	271	0.65	2.1
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Q 299
Ref Mon # 2	MENAPORT AZ MK
Ref Mon # 3	

Vertical Determined By: LEVEL - Unkown Quality	
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 38 6.2809404
Longitude	94 12 15.0815700
Ellipsoid Height (M):	301.178
Geoid Height (M):	-30.168

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO SOUTH ON U.S. HIGHWAY 71 FOR 0.97 KM (0.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.35 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570005 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 640.344 METERS. ELEVATION ON THIS STATION WA ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK T 300.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570005A	Date Monumented 8/16/2000	Monumented By AHTD	County POLK	Route 71	Job Number: 040353
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	621,139.1483	
Easting (M)	197,978.4876	
Elevation (M)*	331.132	
Northing (SFT)	2,037,854.0224	
Easting (SFT)	649,534.4214	
Elevation (SFT)*	1,086.389	

Convergence Angle	-1	14	0.1060845
Scale Factor	0.999974361		
Elevation Adjust. Factor	0.9999480373		
Combined Adjust. Factor	0.9999223996		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE R/W MARKER	288	7.75	25.4
MK # 2	NONE			
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>Q 299</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MENAPORT AZ MK</td> </tr> <tr> <td>Ref Mon # 3</td> <td></td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	Q 299	Ref Mon # 2	MENAPORT AZ MK	Ref Mon # 3		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	Q 299										
Ref Mon # 2	MENAPORT AZ MK										
Ref Mon # 3											
Comments											

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 38 26.9984580
Longitude	94 12 13.1426964
Ellipsoid Height (M):	300.946
Geoid Height (M):	-30.186

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO SOUTH ON U.S. HIGHWAY 71 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.30 METERS EAST OF THE CENTER OF COUNTY ROAD 114, 10.85 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570005A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 640.344 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK T 300.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570006	Date Monumented 4/2/2002	Monumented By AHTD	County POLK	Route 71	Job Number: 030249
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	571,736.4709	
Easting (M)	186,262.4060	
Elevation (M)*	226.867	
Northing (SFT)	1,875,772.0716	
Easting (SFT)	611,095.9104	
Elevation (SFT)*	744.313	

Convergence Angle	-1	17	52.9261237
Scale Factor	0.999922296		
Elevation Adjust. Factor	0.9999643984		
Combined Adjust. Factor	0.9998866972		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE JUNCTION BOX	23	5.00	16.4	
MK # 2	WOODEN FENCE POST	144	3.40	11.2	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 DEQUEEN CORS 1	
Ref Mon # 2 X 303	
Ref Mon # 3 HOCHATOWN	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 11 35.6384004
Longitude	94 19 9.1225308
Ellipsoid Height (M):	198.599
Geoid Height (M):	-28.268

Location Description
<p>TO REACH THE STATION FROM THE SEVIER/POLK COUNTY LINE LOCATED ON THE NORTH SIDE OF GILLHAM , GO NORTH ON U.S. HIGHWAY 71 FOR 0.14 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.50 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71, 5.23 METERS WEST OF A BARB WIRE FENCE LINE, AND 0.92 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "570006 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVEL BY CREW S5102 FROM NOAA BENCH MARK H 302.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570007	Date Monumented 1/21/2003	Monumented By AHTD	County POLK	Route 270	Job Number: 040398
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	628,841.6809	
Easting (M)	175,612.3320	
Elevation (M)*		
Northing (SFT)	2,063,124.7481	
Easting (SFT)	576,154.7926	
Elevation (SFT)*		

Convergence Angle	-1	22	15.5499022
Scale Factor	0.999986969		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	120	11.70	38.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	DeQueen CORS 1
Ref Mon # 2	AHTD HOP1
Ref Mon # 3	Russport

Comments

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 42 20.4033672
Longitude	94 26 58.3527408
Ellipsoid Height (M):	351.642
Geoid Height (M):	-30.887

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF THE ARKANSAS OKLAHOMA STATE LINE AND STATE HIGHWAY 270, GO EAST ON 270 0.30 MILES TO THE STATION ON THE RIGHT. 14.0 METERS SOUTH OF THE CENTER OF THE HIGHWAY AND 3.55 METERS NORTH OF A WITNESS POST. THE CAP IS A STANDARD 64mm CAP STAMPED "570007 2003" ON TOP OF A 1.10 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570007A	Date Monumented 1/21/2003	Monumented By AHTD	County POLK	Route 270	Job Number: 040398
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	628,772.8190	
Easting (M)	176,187.8980	
Elevation (M)*		
Northing (SFT)	2,062,898.8237	
Easting (SFT)	578,043.1287	
Elevation (SFT)*		

Convergence Angle	-1	22	2.8586300
Scale Factor	0.999986868		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	DeQueen CORS 1
Ref Mon # 2	AHTD HOP1
Ref Mon # 3	Russport

Comments

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 34 42 18.6156288

Longitude 94 26 35.6772300

Ellipsoid Height (M): 355.327

Geoid Height (M): -30.872

Location Description

TO REACH THE STATION FROM THE JUNCTION OF THE ARKANSAS OKLAHOMA STATE LINE AND STATE HIGHWAY 270, GO EAST ON HIGHWAY 270 0.70 MILES TO THE STATION ON THE RIGHT. 14.20 METERS SOUTH OF THE CENTER OF THE HIGHWAY AND 1.90 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "570007A 2003" ON TOP OF A 0.66 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570008	Date Monumented 1/21/2003	Monumented By AHTD	County POLK	Route 270	Job Number: 040398
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	628,419.6390	
Easting (M)	179,832.8970	
Elevation (M)*		
Northing (SFT)	2,061,740.0990	
Easting (SFT)	590,001.7629	
Elevation (SFT)*		

Convergence Angle	-1	20	42.5324184
Scale Factor	0.999986377		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	HEAD WALL	108	17.00	55.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 DeQueen CORS 1	
Ref Mon # 2 AHTD HOP1	
Ref Mon # 3 Russport	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 42 9.9573264
Longitude	94 24 12.1582944
Ellipsoid Height (M):	394.927
Geoid Height (M):	-30.777

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 270 AND HIGHWAY 71, NORTH OF MENA, GO WEST ON HIGHWAY 270 8.67 MILES TO HIGHWAY 272 ON THE LEFT, CONTINUE WEST ON HIGHWAY 270 3.40 MILES TO THE STATION ON THE RIGHT. 36.1 METERS WEST OF A GRAVEL ROAD CROSSING THE RAIL ROAD, 15.9 METERS SOUTH OF THE CENTER OF THE RAIL ROAD, 10.7 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "570008 2003" ON TOP OF A 1.05 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570008A	Date Monumented 1/21/2003	Monumented By AHTD	County POLK	Route 270	Job Number: 040398
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	628,364.6410	
Easting (M)	180,220.9350	
Elevation (M)*		
Northing (SFT)	2,061,559.6597	
Easting (SFT)	591,274.8509	
Elevation (SFT)*		

Convergence Angle	-1	20	33.9723807
Scale Factor	0.999986293		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 270 AND HIGHWAY 71, NORTH OF MENA, GO WEST ON HIGHWAY 270 8.67 MILES TO HIGHWAY 272 ON THE LEFT, CONTINUE WEST ON HIGHWAY 270 FOR 3.1 MILES TO THE STATION ON THE RIGHT. 9.0 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 5.80 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "570008A 2003" ON TOP OF A 0.60 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 DeQueen CORS 1</p> <p>Ref Mon # 2 AHTD HOP1</p> <p>Ref Mon # 3 Russport</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570009	Date Monumented 11/15/2004	Monumented By AHTD	County POLK	Route 71	Job Number: 040444
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	613,952.8069	
Easting (M)	194,545.6530	
Elevation (M)*	343.060	
Northing (SFT)	2,014,276.8340	
Easting (SFT)	638,271.8632	
Elevation (SFT)*	1,125.523	

Convergence Angle	-1	15	12.0758487
Scale Factor	0.999962937		
Elevation Adjust. Factor	0.9999461656		
Combined Adjust. Factor	0.9999091046		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF CONCRETE BOX	91	18.30	60.0
MK # 2	TELEPHONE RISER	157	20.60	67.6
MK # 3	WESTERN MOST GUARD RAIL POST	33	20.90	68.6

Area Reference Monuments (used for Processing) Ref Mon # 1 NEANAPORT AZ Ref Mon # 2 SAL 1 Ref Mon # 3 DQUA	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3 WIRE LEVELS FROM K 21, 7/26/05 BY S5102.</td> </tr> </table>	Comments	3 WIRE LEVELS FROM K 21, 7/26/05 BY S5102.
Comments			
3 WIRE LEVELS FROM K 21, 7/26/05 BY S5102.			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 34 31.4182200
Longitude	94 14 21.7311576
Ellipsoid Height (M):	313.037
Geoid Height (M):	-30.023

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 88 AND STATE HIGHWAY 71, IN MENA, GO SOUTH ON HIGHWAY 71 0.60 MILES TO THE STATION ON THE LEFT, 14.0 METERS NORTHWEST OF THE CENTERLINE OF PINE STREET AND SOUTHEAST OF THE CENTERLINE OF 71 12.30 METERS, AND NORTHWEST OF A WITNESS POST 0.50 METERS. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570009 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	570009A
Geodetic Azimuth	1 02 24
Grid Azimuth	2 17 36

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570009A	Date Monumented 11/15/2004	Monumented By AHTD	County POLK	Route 71	Job Number: 040444
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	614,390.3169	
Easting (M)	194,563.1740	
Elevation (M)*	350.206	
Northing (SFT)	2,015,712.2314	
Easting (SFT)	638,329.3467	
Elevation (SFT)*	1,148.968	

Convergence Angle	-1	15	11.9013272
Scale Factor	0.999963589		
Elevation Adjust. Factor	0.9999450443		
Combined Adjust. Factor	0.9999086353		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	C/L MANHOLE	225	14.20	46.6	
MK # 2	TELEPHONE RISER	279	19.20	63.0	
MK # 3	COMBINATION POLE	351	17.10	56.1	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEANAPORT AZ	3 WIRE LEVELS FROM K 21, 7/26/05 BY S5102.
Ref Mon # 2 SAL 1	
Ref Mon # 3 DQUA	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 34 45.6258828
Longitude	94 14 21.4193400
Ellipsoid Height (M):	320.166
Geoid Height (M):	-30.040

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 88 AND STATE HIGHWAY 71, IN MENA, GO SOUTH ON HIGHWAY 71 0.35 MILES TO THE STATION ON THE RIGHT, NORTH OF THE CENTERLINE OF 10th STREET 16.25 METERS, AND WEST OF THE CENTERLINE OF 71 13.30 METERS, AND EAST OF A WITNESS POST 0.50 METERS. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570009A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	570009
Geodetic Azimuth	181 02 24
Grid Azimuth	182 17 36

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570010	Date Monumented 6/19/2007	Monumented By AHTD	County POLK	Route 71	Job Number: 040488
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	591,660.5539	
Easting (M)	180,815.3760	
Elevation (M)*	328.288	
Northing (SFT)	1,941,139.6673	
Easting (SFT)	593,225.1128	
Elevation (SFT)*	1,077.059	

Convergence Angle	-1	20	2.1111220
Scale Factor	0.999935739		
Elevation Adjust. Factor	0.9999484835		
Combined Adjust. Factor	0.9998842259		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	242	3.96	13.0
MK # 2	GAS METER	181	40.54	133.0
MK # 3	LIGHT POLE	270	30.78	101.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ Ref Mon # 2 DQUA Ref Mon # 3 OKHV	3-Wire Elevations were ran from NGS Q 301, R 301, & S301 in Job # 040488 by S5102 in Oct 2007.

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 246, SOUTH OF MENA, GO SOUTH ON HIGHWAY 71 FOR 0.6 MILES TO THE STATION MARK ON THE RIGHT, SOUTHWEST OF THE CENTERLINE OF THE HIGHWAY 32.4 FEET AND NORTHEAST 13.0 FEET OF A WITNESS POST. THE STATION MAK IS A STANDARD 2 1/2 INCH CAP STAMPED "570010 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	570010A
Geodetic Azimuth	148 06 31
Grid Azimuth	149 26 33

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570010A	Date Monumented 6/19/2007	Monumented By AHTD	County POLK	Route 71	Job Number: 040488
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	591,117.4288	
Easting (M)	181,136.0360	
Elevation (M)*	339.243	
Northing (SFT)	1,939,357.7643	
Easting (SFT)	594,277.1448	
Elevation (SFT)*	1,112.999	

Convergence Angle	-1	19	54.8117625
Scale Factor	0.999935248		
Elevation Adjust. Factor	0.9999467646		
Combined Adjust. Factor	0.9998820160		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	249	25.66	84.2
MK # 2	GAS METER	340	31.49	103.3
MK # 3	LIGHT POLE	91	18.29	60.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MENAPORT AZ	3-Wire Elevations were ran from NGS Q 301, R 301, & S301 in Job # 040488 by S5102 in Oct 2007.
Ref Mon # 2 DQUA	
Ref Mon # 3 OKHV	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 22 0.6825576
Longitude	94 22 46.8957432
Ellipsoid Height (M):	309.962
Geoid Height (M):	-29.288

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 246, SOUTH OF MENA, GO SOUTH ON HIGHWAY 71 FOR 0.9 MILES TO THE STATION MARK ON THE LEFT, NORTHWEST 35.0 FEET OF A GRAVEL DRIVE, NORTHEAST 27.0 FEET OF THE CENTERLINE OF THE HIGHWAY, AND SOUTHWEST 38.0 FEET OF A WITNESS POST. THE STATION MAK IS A STANDARD 2 1/2 INCH CAP STAMPED "570010A 2007" ON TOP OF A 3.5 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

AZ Mark Station	570010
Geodetic Azimuth	328 06 38
Grid Azimuth	329 26 33

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570011	Date Monumented 6/5/2019	Monumented By ARDOT	County POLK	Route 71	Job Number: 040787
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	622,220.1825 0.0020
Easting (M)	202,028.3395 0.0020
Elevation (M)*	336.765

Northing (SFT)	2,041,400.7154		
Easting (SFT)	662,821.3105		
Elevation (SFT)*	1,104.871		

Convergence Angle	-1	12	31.6247488
Scale Factor	0.999976319		
Elevation Adjust. Factor	0.9999471533		
Combined Adjust. Factor	0.9999234736		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 270, IN ACORN, GO NORTH ON HIGHWAY 71 2.4 MILES TO THE MARK ON THE RIGHT, SOUTH SOUTHEAST 37.6' OF THE C/L OF THE HIGHWAY. THE MARK IS AS STANDARD 2 1/2" CAP STAMPED "2019 570011" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	243	23.65	77.6
MK # 2	UC MARKER	230	21.34	70.0
MK # 3	C/L HDWL	262	24.38	80.0

AZ Mark Station	570011A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM's Q 300 & ACORN BY S5112 IN JUNE 2019 FOR JOB #040787.
Ref Mon # 2 ARHP	
Ref Mon # 3 ARLR, ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570011A	Date Monumented 6/5/2019	Monumented By ARDOT	County POLK	Route 71	Job Number: 040787
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	622,415.1063	0.0030			
Easting (M)	202,359.4332	0.0030			
Elevation (M)*	333.962				
Northing (SFT)	2,042,040.2279				
Easting (SFT)	663,907.5738				
Elevation (SFT)*	1,095.674				

Convergence Angle	-1	12	24.4393473
Scale Factor	0.999976662		
Elevation Adjust. Factor	0.9999475932		
Combined Adjust. Factor	0.9999242564		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/2 GUYS AND TRANSFORM	208	30.78	101.0
MK # 2	POWER POLE W/ TELEPHONE BOX	57	4.51	14.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS Ref Mon # 2 ARHP Ref Mon # 3 ARLR, ARRV	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM's Q 300 & ACORN BY S5112 IN JUNE 2019 FOR JOB #040787.

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	34 39 11.4243228
Longitude	94 9 22.2148260
Ellipsoid Height (M):	303.724 0.0110
Geoid Height (M):	-30.214 0.0110

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 270, IN ACORN, GO NORTH ON HIGHWAY 71 2.65 MILES TO THE MARK ON THE RIGHT, SOUTHEAST 39.3' OF THE C/L OF THE HIGHWAY AND NORTHEAST 76' OF THE C/L OF POLK COUNTY ROAD 45. THE MARK IS AS STANDARD 2 1/2" CAP STAMPED "2019 570011A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570012	Date Monumented 2/25/2020	Monumented By ARDOT	County POLK	Route CR 192	Job Number: 040789, 040893
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	614,997.3066	0.0040	
Easting (M)	208,286.6294	0.0030	
Elevation (M)*	290.221	0.0009	
Northing (SFT)	2,017,703.6634		
Easting (SFT)	683,353.7166		
Elevation (SFT)*	952.167		

Convergence Angle	-1	10	10.8591079
Scale Factor	0.999964940		
Elevation Adjust. Factor	0.9999544569		
Combined Adjust. Factor	0.9999193985		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/LIGHT AND TELEPHONE B	30	14.17	46.5
MK # 2	CENTER OF GATE	275	36.88	121.0
MK # 3	FENCE CORNER	101	6.22	20.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ Ref Mon # 2 ARFS Ref Mon # 3 ARGS, ARHP	ELEVATIONS DETERMINED BY DIGITAL LEVELS FROM NGS 2ND ORDER BM K 134 AND J 134 BY CREW S5101 DURING JOB 040893.

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 88 AND STATE HIGHWAY 71, EAST OF MENA, GO EAST ON HIGHWAY 88 7.0 MILES TO COUNTY ROAD 192 ON THE LEFT. TURN LEFT (NORTH) ON cr 192 AND GO 0.15 MILES TO THE MARK ON THE LEFT, WEST 36' OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 570012" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570012A	Date Monumented 2/25/2020	Monumented By ARDOT	County POLK	Route 88	Job Number: 040789
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	614,736.4799 0.0040
Easting (M)	208,017.7014 0.0030
Elevation (M)*	285.918 0.0008
Northing (SFT)	2,016,847.9345
Easting (SFT)	682,471.4087
Elevation (SFT)*	938.049

Convergence Angle	-1 10 16.6471917
Scale Factor	0.999964537
Elevation Adjust. Factor	0.9999551322
Combined Adjust. Factor	0.9999196708

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 88 AND STATE HIGHWAY 71, EAST OF MENA, GO EAST ON HIGHWAY 88 6.85 MILES TO THE MARK ON THE LEFT, NORTH 26.9' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 570012A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	70	13.59	44.6
MK # 2	WOODEN FENCE POST	298	11.28	37.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARDQ Ref Mon # 2 ARFS Ref Mon # 3 ARGS, ARHP	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;"> ELEVATIONS DETERMINED BY DIGITAL LEVELS FROM NGS 2ND ORDER BM K 134 AND J 134 BY CREW S5101 DURING JOB 040893. </td> </tr> </table>	Comments	ELEVATIONS DETERMINED BY DIGITAL LEVELS FROM NGS 2ND ORDER BM K 134 AND J 134 BY CREW S5101 DURING JOB 040893.
Comments			
ELEVATIONS DETERMINED BY DIGITAL LEVELS FROM NGS 2ND ORDER BM K 134 AND J 134 BY CREW S5101 DURING JOB 040893.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570013	Date Monumented 2/25/2020	Monumented By ARDOT	County POLK	Route 88	Job Number: 040789
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	614,672.2751 0.0040
Easting (M)	215,892.0989 0.0030
Elevation (M)*	

Northing (SFT)	2,016,637.2892	
Easting (SFT)	708,305.9945	
Elevation (SFT)*		

Convergence Angle	-1	7	23.7136747
Scale Factor	0.999964678		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 88 AND STATE HIGHWAY 71, EAST OF MENA, GO EAST ON HIGHWAY 88 11.95 MILES TO THE MARK ON THE LEFT, NORTH 30.8' OF THE C/L OF THE HIGHWAY AND EAST 17.9' OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 570013" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MARKER	8	4.05	13.3
MK # 2	POWER POLE	48	4.66	15.3
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	
Ref Mon # 2 ARFS	
Ref Mon # 3 ARGS, ARHP	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570013A	Date Monumented 2/25/2020	Monumented By ARDOT	County POLK	Route 88	Job Number: 040789
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	614,635.1366 0.0040
Easting (M)	216,345.1663 0.0030
Elevation (M)*	

Northing (SFT)	2,016,515.4440	
Easting (SFT)	709,792.4331	
Elevation (SFT)*		

Convergence Angle	-1	7	13.7491725
Scale Factor	0.999964635		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 88 AND STATE HIGHWAY 71, EAST OF MENA, GO EAST ON HIGHWAY 88 12.2 MILES TO THE MARK ON THE LEFT, NORTH 41.3' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 570013A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/ GUY	288	25.54	83.8
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARGS, ARHP

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570014	Date Monumented 1/5/2021	Monumented By AHTD	County Polk	Route 71	Job Number: 04X099
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	602,110.7107	0.0030			
Easting (M)	180,623.0418	0.0030			
Elevation (M)*					
Northing (SFT)	1,975,424.8900				
Easting (SFT)	592,594.0963				
Elevation (SFT)*					

Convergence Angle	-1	20	11.6633804
Scale Factor	0.999946737		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF A METAL GATE	115	9.14	30.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	
Ref Mon # 2 ARFS, ARFY	
Ref Mon # 3 ARRV, OKMC	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	34 27 56.9833848
Longitude	94 23 17.0045484
Ellipsoid Height (M):	242.587 0.0140
Geoid Height (M):	-30.046 0.0140

Location Description
<p>FROM THE INTERSECTION OF US HWY. 71 AND STATE HWY. 246 WEST IN HATFIELD, AR, GO SOUTH ON US HWY. 71 FOR 1.65 MILES TO THE STATION ON THE LEFT. THE POINT IS 29.7' SOUTHEAST OF THE CL OF US HWY. 71, 16' NORTH OF THE SOUTH END OF A 18" CMP</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 570014A	Date Monumented 1/5/2021	Monumented By AHTD	County Polk	Route 71	Job Number: 04X099
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	601,807.9705	0.0030			
Easting (M)	180,358.3438	0.0030			
Elevation (M)*					
Northing (SFT)	1,974,431.6499				
Easting (SFT)	591,725.6663				
Elevation (SFT)*					

Convergence Angle	-1	20	17.3119252
Scale Factor	0.999946373		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE	267	10.73	35.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ Ref Mon # 2 ARFS, ARFY Ref Mon # 3 ARRV, OKMC	

Vertical Determined By:		GPS - Unknown Quality	
Elevation Datum:		NAVD 88	
Geoid Datum:		Geoid 18	
Latitude	34	27	46.9603116
Longitude	94	23	27.0968100
Ellipsoid Height (M):	234.866	0.0140	
Geoid Height (M):	-30.038	0.0140	

Location Description
FROM THE INTERSECTION OF US HWY. 71 AND STATE HWY. 246 WEST IN HATFIELD, AR, GO SOUTH ON US HWY. 71 FOR 1.9 MILES TO THE STATION ON THE RIGHT. THE STATION IS 52.4' NORTHWEST OF THE CL OF US HWY. 71, 15.5' SOUTHEAST OF A H BRACE IN A 6 BARB WIRE FENCE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580001	Date Monumented 6/4/1990	Monumented By AHTD	County POPE	Route 64	Job Number: R80072, 8971
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td colspan="2">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>18 25.2418752</td> </tr> <tr> <td>Longitude</td> <td>93</td> <td>10 19.7692644</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td></td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-29.750</td> <td></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	35	18 25.2418752	Longitude	93	10 19.7692644	Ellipsoid Height (M):			Geoid Height (M):	-29.750	
Vertical Determined By:	LEVEL - Unkown Quality																						
Elevation Datum:	NAVD 88																						
Geoid Datum:																							
Latitude	35		18 25.2418752																				
Longitude	93		10 19.7692644																				
Ellipsoid Height (M):																							
Geoid Height (M):	-29.750																						
Horizontal Datum NAD 83 (1986)																							
Northing (M)	108,655.6166																						
Easting (M)	293,405.1426																						
Elevation (M)*	109.949																						
Northing (SFT)	356,480.9688																						
Easting (SFT)	962,613.3720																						
Elevation (SFT)*	360.724																						

Convergence Angle	0	40	55.4800555
Scale Factor	0.999947575		
Elevation Adjust. Factor	0.9999827457		
Combined Adjust. Factor	0.9999303216		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks											
Description		Azimuth	Distance								
			Meters	Feet							
MK # 1	PUNCH POINT IN END OF BOLT GUARDRAI	145	2.16	7.1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">AZ Mark Station</td> <td>90580002</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>113 11 54</td> </tr> <tr> <td>Grid Azimuth</td> <td>113 52 49</td> </tr> </table>	AZ Mark Station	90580002	Geodetic Azimuth	113 11 54	Grid Azimuth	113 52 49
AZ Mark Station	90580002										
Geodetic Azimuth	113 11 54										
Grid Azimuth	113 52 49										
MK # 2	PUNCH POINT IN END OF BOLT GUARDRAI	295	1.95	6.4							
MK # 3	PUNCH POINT IN END OF BOLT GUARDRAI	315	5.65	18.5							

Area Reference Monuments (used for Processing)	Comments						
<table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>NEBO</td> </tr> <tr> <td>Ref Mon # 2</td> <td>BROWN</td> </tr> <tr> <td>Ref Mon # 3</td> <td>FURGERSON</td> </tr> </table>	Ref Mon # 1	NEBO	Ref Mon # 2	BROWN	Ref Mon # 3	FURGERSON	<p>Old point number 90580001</p>
Ref Mon # 1	NEBO						
Ref Mon # 2	BROWN						
Ref Mon # 3	FURGERSON						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580002	Date Monumented 6/4/1990	Monumented By AHTD	County POPE	Route 326	Job Number: R80072, 8971
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 108,456.5981		Latitude 35 18 18.9575928
Easting (M) 293,854.9359		Longitude 93 10 1.8715872
Elevation (M)* 109.554		Ellipsoid Height (M):
		Geoid Height (M): -29.746

Northing (SFT) 355,828.0223		
Easting (SFT) 964,089.0689		
Elevation (SFT)* 359.428		

Convergence Angle 0 40 45.0654127		
Scale Factor 0.999947722		
Elevation Adjust. Factor 0.9999828077		
Combined Adjust. Factor 0.9999305306		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	PUNCH POINT IN TOP OF GUARDRAIL POST	75	2.71	8.9	AZ Mark Station 90580001
MK # 2	PUNCH POINT IN TOP OF GUARDRAIL POST	175	2.27	7.4	Geodetic Azimuth 293 12 04
MK # 3	NONE	0	0.00	0.0	Grid Azimuth 293 52 49

Area Reference Monuments (used for Processing) Ref Mon # 1 NEBO Ref Mon # 2 BROWN Ref Mon # 3 FURGERSON	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Old point number 90580002</td> </tr> </table>	Comments	Old point number 90580002
Comments			
Old point number 90580002			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580003	Date Monumented 6/4/1990	Monumented By AHTD	County POPE	Route 64	Job Number: 8971
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 105,479.5671		Geoid Datum:
Easting (M) 296,615.8130		Latitude 35 16 43.4078472
Elevation (M)* 		Longitude 93 8 11.2288632
Northing (SFT) 346,060.8797		Ellipsoid Height (M):
Easting (SFT) 973,147.0465		Geoid Height (M): -29.726
Elevation (SFT)* 		

Convergence Angle 0 39 40.6825081	Location Description AT RUSSELLVILLE ON MAIN STREET, ON THE SOUTHWEST CORNER OF THE INTERSECTION OF MAIN AND SOUTH DENVER STREETS IN A CRACK IN A CONCRETE AREA BETWEEN THE EDGE OF THE PAVEMENT AND THE PARKING LOT OF RAY PONTIAC. THE STATION IS 35 FEET SOUTH OF THE CENTERLINE OF HWY. 64 AND 18 FEET WEST OF THE CURB.
Scale Factor 0.999950070	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN LIGHT POLE	185	2.27	7.4
MK # 2	NBC IN LIGHT POLE	288	22.39	73.4
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 NEBO Ref Mon # 2 BROWN Ref Mon # 3 FURGERSON	Comments Old point number 90580003
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580004	Date Monumented 6/4/1990	Monumented By AHTD	County POPE	Route 64	Job Number: 8971
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	105,185.2041	
Easting (M)	296,547.4740	
Elevation (M)*		
Northing (SFT)	345,095.1238	
Easting (SFT)	972,922.8376	
Elevation (SFT)*		

Convergence Angle	0	39	42.1777650
Scale Factor	0.999950317		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)	
Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
Grid Northing (Meters)												
Grid Easting (Meters)												

Location Description
<p>AT RUSSELLVILLE ON SOUTH DENVER STREET. THE STATION IS 16 FEET WEST OF THE CENTERLINE OF SOUTH DENVER STREET, 102.5 FEET SOUTH OF WEST 3RD STREET, 195 FEET NORTH OF WEST 4TH STREET IN FRONT OF THE ARKANSAS STATE REVENUE OFFICE, DRIVER CONTROL, DEPARTMENT OF FINANCE & ADMINISTRATION, 1.7 FEET BACK OF THE CURB AND 2.7 FEET WEST OF A WITNESS POST.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	20	24.67	80.9
MK # 2	NBC IN TELEPHONE POLE	164	13.52	44.3
MK # 3	NONE	0	0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 NEBO</p> <p>Ref Mon # 2 BROWN</p> <p>Ref Mon # 3 FURGERSON</p>	<p style="text-align: center; border-bottom: 1px solid black;">Comments</p> <p>Old point number 90580004</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580005	Date Monumented 11/29/1994	Monumented By AHTD	County POPE	Route 124	Job Number: 8900,080427
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	109,012.5622	
Easting (M)	299,833.8019	
Elevation (M)*	135.169	
Northing (SFT)	357,652.0478	
Easting (SFT)	983,704.7317	
Elevation (SFT)*	443.466	

Convergence Angle	0	38	27.4965501
Scale Factor	0.999947251		
Elevation Adjust. Factor	0.9999787881		
Combined Adjust. Factor	0.9999260402		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude	35	18	39.2454684
Longitude	93	6	5.4521496
Ellipsoid Height:			
Grid Northing (Meters)	109,012.9620		
Grid Easting (Meters)	299,833.9540		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	130	3.40	11.2
MK # 2	NORTHERN MOST TELEPHONE BOX	177	15.85	52.0
MK # 3	14" CATALPA TREE	40	20.40	66.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT Ref Mon # 2 FURGERSON Ref Mon # 3 NONE	Digital levels were ran by CLS from TBM 904 of Job 080389 and NGS BM X 65 during Job 080427 in March 2012.

Location Description	
FROM THE JCT. OF HWY.124 AND HWY. 326 NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 124 FOR 1.56 KM (0.97 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 8.40 METERS EAST OF THE CENTERLINE OF HWY. 124, 30.0 METERS NORTH OF THE NORTHERN MOST DRIVEWAY TO A CHURCH, 28.8 METERS SOUTH OF A GRAVEL DRIVEWAY AND 0.70 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "580005" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580005A	Date Monumented 11/29/1994	Monumented By AHTD	County POPE	Route 124	Job Number: 8900,080427
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	108,568.9177	
Easting (M)	299,812.7255	
Elevation (M)*	148.710	
Northing (SFT)	356,196.5242	
Easting (SFT)	983,635.5836	
Elevation (SFT)*	487.893	

Convergence Angle	0	38	27.8676924
Scale Factor	0.999947584		
Elevation Adjust. Factor	0.9999766631		
Combined Adjust. Factor	0.9999242483		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude	35	18	24.8423112
Longitude	93	6	6.0898284
Ellipsoid Height:			
Grid Northing (Meters)	108,569.3111		
Grid Easting (Meters)	299,812.8810		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	20" CONCRETE PIPE	356	12.70	41.7
MK # 2	F.A.S. MARKER #1171	62	30.00	98.4
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 RUSSPORT Ref Mon # 2 FURGERSON Ref Mon # 3 NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">AZ Mark Station</th> <td style="text-align: center;">580005</td> </tr> <tr> <th style="text-align: center;">Geodetic Azimuth</th> <td style="text-align: center;">2 04 42.436036</td> </tr> <tr> <th style="text-align: center;">Grid Azimuth</th> <td style="text-align: center;">2 43 10.299009</td> </tr> </table>	AZ Mark Station	580005	Geodetic Azimuth	2 04 42.436036	Grid Azimuth	2 43 10.299009
AZ Mark Station	580005						
Geodetic Azimuth	2 04 42.436036						
Grid Azimuth	2 43 10.299009						

Comments
Digital levels were ran by CLS from TBM 904 of Job 080389 and NGS BM X 65 during Job 080427 in March 2012.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580006	Date Monumented 11/29/1994	Monumented By AHTD	County POPE	Route 124	Job Number: 8900,080427
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	111,346.0385	
Easting (M)	303,364.7914	
Elevation (M)*	131.892	
Northing (SFT)	365,307.7946	
Easting (SFT)	995,289.3198	
Elevation (SFT)*	432.717	

Convergence Angle	0	37	6.7410081
Scale Factor	0.999945551		
Elevation Adjust. Factor	0.9999793022		
Combined Adjust. Factor	0.9999248543		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	F.A.S. MARKER #243	50	1.15	3.8
MK # 2	18" METAL PIPE	260	19.00	62.3
MK # 3	WOODEN FENCE CORNER POST	245	17.80	58.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT	
Ref Mon # 2 FURGERSON	
Ref Mon # 3 NONE	

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid09
Latitude	35 19 56.2081080
Longitude	93 3 46.6787160
Ellipsoid Height (M):	102.975
Geoid Height (M):	-28.919

Location Description
<p>FROM THE JCT. OF HWY. 124 AND HWY. 326 JUST NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 124 FOR 6.63 KM (4.12 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 10.85 METERS SOUTH OF THE CENTERLINE OF HWY. 124, 21.7 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 1.20 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "580006" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580006A	Date Monumented 11/29/1994	Monumented By AHTD	County POPE	Route 124	Job Number: 8900,080427
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	111,501.8215	
Easting (M)	303,790.9843	
Elevation (M)*	138.217	
Northing (SFT)	365,818.8927	
Easting (SFT)	996,687.5877	
Elevation (SFT)*	453.467	

Convergence Angle	0	36	56.9596911
Scale Factor	0.999945441		
Elevation Adjust. Factor	0.9999783097		
Combined Adjust. Factor	0.9999237519		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	55	28.25	92.7
MK # 2	WOODEN FENCE CORNER POST	59	16.90	55.4
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT	
Ref Mon # 2 FURGERSON	
Ref Mon # 3 NONE	

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid09
Latitude	35 20 1.4119080
Longitude	93 3 29.8694160
Ellipsoid Height (M):	109.309
Geoid Height (M):	-28.907

Location Description
<p>FROM THE JCT. OF HWY. 124 AND HWY. 326 JUST NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 124 FOR 7.08 KM (4.40 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 12.45 METERS SOUTH OF THE CENTERLINE OF HWY. 124, 23.0 METERS WEST OF THE CENTER OF A GRAVEL ROAD AND 0.60 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "580006A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580007	Date Monumented 11/29/1994	Monumented By AHTD	County POPE	Route 124	Job Number: 8900
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1986)
Northing (M)	112,939.6141
Easting (M)	305,753.2330
Elevation (M)*	198.686
Northing (SFT)	370,536.0506
Easting (SFT)	1,003,125.3986
Elevation (SFT)*	651.856

Convergence Angle	0 36 12.0955379
Scale Factor	0.999944470
Elevation Adjust. Factor	0.9999688207
Combined Adjust. Factor	0.9999132924

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
<p>FROM THE JCT. OF HWY. 124 AND HWY. 326 JUST NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 326 FOR 9.575 KM (5.95 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.2 METERS SOUTH OF THE CENTERLINE OF HWY. 124, 20.4 METERS WEST OF THE CENTER OF A GRAVEL ROAD AND 2.24 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "580007" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RAILROAD CROSS TIE CORNER POST	55	16.00	52.5
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: RUSSPORT</p> <p>Ref Mon # 2: FURGERSON</p> <p>Ref Mon # 3: NONE</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580007A	Date Monumented 11/29/1994	Monumented By AHTD	County POPE	Route 124	Job Number: 8900
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	112,540.4061	
Easting (M)	305,276.0230	
Elevation (M)*	165.324	
Northing (SFT)	369,226.3157	
Easting (SFT)	1,001,559.7521	
Elevation (SFT)*	542.400	

Convergence Angle	0	36	22.9955585
Scale Factor	0.999944734		
Elevation Adjust. Factor	0.9999740559		
Combined Adjust. Factor	0.9999187914		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	RUSSPORT
Ref Mon # 2	FURGERSON
Ref Mon # 3	NONE

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	35 20 35.6257896
Longitude	93 2 31.5016836
Ellipsoid Height (M):	135.760
Geoid Height (M):	-29.564

Location Description
<p>FROM THE JCT. OF HWY. 124 AND HWY. 326 JUST NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 124 FOR 8.96 KM (5.57 MILES) TO THE STATION ON THE LEFT. THE STATION IS 9.70 METERS NORTH OF THE CENTERLINE OF HWY. 124 AND 1.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "580007A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

AZ Mark Station	580007
Geodetic Azimuth	49 28 46.49088
Grid Azimuth	50 05 09.45450

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580008	Date Monumented 11/29/1994	Monumented By AHTD	County POPE	Route 124	Job Number: 8900
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 113,310.7351		Latitude 35 21 1.3998996
Easting (M) 307,570.5800		Longitude 93 1 0.9483816
Elevation (M)* 233.998		Ellipsoid Height (M): 204.474
		Geoid Height (M): -29.524

Northing (SFT) 371,753.6367		
Easting (SFT) 1,009,087.8112		
Elevation (SFT)* 767.708		

Convergence Angle 0 35 30.3026711		
Scale Factor 0.999944219		
Elevation Adjust. Factor 0.9999632794		
Combined Adjust. Factor 0.9999075005		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

 FROM THE JCT. OF HWY. 124 AND HWY. 326 NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 124 FOR 11.506 KM (7.15 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 15.15 METERS SOUTH OF THE CENTERLINE OF HWY. 124, 15.9 METERS WEST OF THE CENTERLINE OF A PAVED COUNTY ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "580008" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	24" METAL PIPE	53	9.10	29.9
MK # 2	TELEPHONE POLE	95	26.30	86.3
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT	
Ref Mon # 2 FURGERSON	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580008A	Date Monumented 11/29/1994	Monumented By AHTD	County POPE	Route N/A	Job Number: 8900
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	112,954.2981	
Easting (M)	307,563.1600	
Elevation (M)*	251.057	
Northing (SFT)	370,584.2263	
Easting (SFT)	1,009,063.4674	
Elevation (SFT)*	823.676	

Convergence Angle	0	35	30.3888275
Scale Factor	0.999944448		
Elevation Adjust. Factor	0.9999606025		
Combined Adjust. Factor	0.9999050527		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	106	20.45	67.1
MK # 2	POWER POLE	133	26.55	87.1
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT	
Ref Mon # 2 FURGERSON	
Ref Mon # 3 NONE	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	35 20 49.8317424
Longitude	93 1 1.0964424
Ellipsoid Height (M):	221.530
Geoid Height (M):	-29.527

Location Description
<p>FROM THE JCT. OF HWY. 124 AND HWY. 326 NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 124 FOR 11.51 KM (7.15 MILES) TO A PAVED ROAD RIGHT, GO RIGHT (SOUTH) ON A PAVED ROAD FOR 0.35 KM (0.22 MILES) TO THE TOP OF THE HILL AND THE STATION ON THE RIGHT. THE STATION IS 8.60 METERS WEST OF THE CENTER OF THE PAVED ROAD, 5.0 METERS NORTH OF A FIELD ENTRANCE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "580008A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

AZ Mark Station	580008
Geodetic Azimuth	0 36 02.87292
Grid Azimuth	1 11 33.26149

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580009A	Date Monumented 5/11/1998	Monumented By AHTD	County POPE	Route I-40	Job Number: 080133
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	108,621.2951	
Easting (M)	296,009.3940	
Elevation (M)*	109.830	
Northing (SFT)	356,368.3657	
Easting (SFT)	971,157.4868	
Elevation (SFT)*	360.334	

Convergence Angle	0	39	55.4857545
Scale Factor	0.999947578		
Elevation Adjust. Factor	0.9999827644		
Combined Adjust. Factor	0.9999303433		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-40 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF RUSSELLVILLE, GO WEST ON I-40 WEST BOUND LANE FOR 0.44 KM (0.27 MI) TO THE STATION ON THE LEFT SET ON THE SOUTH SIDE OF I-40 EAST BOUND LANE. THE STATION IS 29.73 METERS SOUTH OF THE SOUTH EDGE OF CONCRETE OF THE EAST BOUND LANE, 2.03 METERS NORTH OF A CHAIN LINK FENCE AND 2.11 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580009A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 RUSSPORT</p> <p>Ref Mon # 2 CLARPORT</p> <p>Ref Mon # 3 W H PHILLIPS</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580010	Date Monumented 5/11/1998	Monumented By AHTD	County POPE	Route 7	Job Number: 080133
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	114,593.0461	
Easting (M)	298,078.3980	
Elevation (M)*	128.363	
Northing (SFT)	375,960.6854	
Easting (SFT)	977,945.5441	
Elevation (SFT)*	421.138	

Convergence Angle	0	39	9.3959729
Scale Factor	0.999943483		
Elevation Adjust. Factor	0.9999798561		
Combined Adjust. Factor	0.9999233402		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	199	26.50	87.0
MK # 2	0.60 METER CATALPA TREE	237	31.64	103.8
MK # 3	TELEPHONE JUNCTION BOX	11	33.49	109.9

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>RUSSPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>CLARPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>W H PHILLIPS</td> </tr> </table>	Ref Mon # 1	RUSSPORT	Ref Mon # 2	CLARPORT	Ref Mon # 3	W H PHILLIPS	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	RUSSPORT							
Ref Mon # 2	CLARPORT							
Ref Mon # 3	W H PHILLIPS							
Comments								

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 21 39.6633456

Longitude 93 7 17.4626112

Ellipsoid Height (M): 99.424

Geoid Height (M): -28.914

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-40 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF RUSSELLVILLE, GO NORTH ON STATE HIGHWAY 7 FOR 6.20 KM (3.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.644 METERS WEST OF THE CENTER OF STATE HIGHWAY 7 AND 0.80 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580010 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580010A	Date Monumented 5/11/1998	Monumented By AHTD	County POPE	Route 7	Job Number: 080133
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	114,918.6270	
Easting (M)	298,285.5020	
Elevation (M)*	129.218	
Northing (SFT)	377,028.8621	
Easting (SFT)	978,625.0178	
Elevation (SFT)*	423.943	

Convergence Angle	0	39	4.7077364
Scale Factor	0.999943285		
Elevation Adjust. Factor	0.9999797219		
Combined Adjust. Factor	0.9999230080		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	LIGHT POLE	209	23.55	77.3	580010
MK # 2	1.45 METER CMP	344	3.90	12.8	211 48 34.10122
MK # 3	NORTHWEST CORNER OF QUONSET HUT	167	14.78	48.5	212 27 38.82162

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT	
Ref Mon # 2 CLARPORT	
Ref Mon # 3 W H PHILLIPS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580011	Date Monumented 5/11/1998	Monumented By AHTD	County POPE	Route 27	Job Number: 080133
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	119,188.7900	
Easting (M)	298,068.9190	
Elevation (M)*	129.626	
Northing (SFT)	391,038.5552	
Easting (SFT)	977,914.4451	
Elevation (SFT)*	425.281	

Convergence Angle	0	39	10.8217713
Scale Factor	0.999940943		
Elevation Adjust. Factor	0.9999796579		
Combined Adjust. Factor	0.9999206021		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	0	1.50	4.9
MK # 2	WATER VALVE	86	29.90	98.1
MK # 3	WPA CONCRETE MARKER	69	33.50	109.9

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>RUSSPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>CLARPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>W H PHILLIPS</td> </tr> </table>	Ref Mon # 1	RUSSPORT	Ref Mon # 2	CLARPORT	Ref Mon # 3	W H PHILLIPS	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	RUSSPORT							
Ref Mon # 2	CLARPORT							
Ref Mon # 3	W H PHILLIPS							
Comments								

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 24 8.7803604

Longitude 93 7 19.9128612

Ellipsoid Height (M): 100.799

Geoid Height (M): -28.853

Location Description

TO REACH THE STATION FROM THE "T" JUNCTION OF STATE HIGHWAY 7, STATE HIGHWAY 27 AND STATE HIGHWAY 164, LOCATED IN DOVER, GO WEST ON STATE HIGHWAY 7 FOR 0.64 KM (0.40 MI) TO THE JUNCTION OF JOSAPHENE STREET ON THE LEFT, TURN LEFT AND GO SOUTH ON JOSAPHENE STREET FOR ABOUT 55 METERS TO THE JUNCTION OF COLONY STREET ON THE RIGHT, TURN RIGHT AND GO WEST ON COLONY STREET FOR ABOUT 37 METERS TO THE STATION ON THE . LEFT. THE STATION IS 36.75 METERS WEST OF THE CENTER OF JOSAPHENE STREET, 6.50 METERS SOUTH OF THE CENTER OF COLONY STREET AND 1.08 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580011 1998" SET ON TOP OF AN IRON ROD 0.38 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580011A	Date Monumented 5/11/1998	Monumented By AHTD	County POPE	Route 7	Job Number: 080133
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	119,495.9520	
Easting (M)	297,785.9600	
Elevation (M)*	123.953	
Northing (SFT)	392,046.3025	
Easting (SFT)	976,986.1038	
Elevation (SFT)*	406.669	

Convergence Angle	0	39	17.4280069
Scale Factor	0.999940793		
Elevation Adjust. Factor	0.9999805481		
Combined Adjust. Factor	0.9999213423		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH IN TOP OF A METAL GUARD RAIL POST	328	4.97	16.3
MK # 2	PUNCH IN TOP OF A METAL GUARD RAIL POST	3	1.37	4.5
MK # 3	PUNCH IN TOP OF A METAL GUARD RAIL POST	118	2.90	9.5

Area Reference Monuments (used for Processing) Ref Mon # 1 RUSSPORT Ref Mon # 2 CLARPORT Ref Mon # 3 W H PHILLIPS	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description
TO REACH THE STATION FROM THE "T" JUNCTION OF STATE HIGHWAY 7, STATE HIGHWAY 27 AND STATE HIGHWAY 164, LOCATED IN DOVER, GO WEST ON STATE HIGHWAY 7 FOR 1.05 KM (0.65 MI) TO THE STATION ON THE LEFT SET ABOUT 50 METERS NORTHWEST OF THE NORTHWEST END OF A BRIDGE. THE STATION IS 8.903 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 7 AND 0.66 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580011A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	580011
Geodetic Azimuth	136 41 37.49417
Grid Azimuth	137 20 54.90766

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580012	Date Monumented 3/23/2000	Monumented By AHTD	County POPE	Route 7	Job Number: 080267, 080XX6,080495
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	99,731.9868 0.0055
Easting (M)	295,637.8188 0.0055
Elevation (M)*	98.454

Northing (SFT)	327,204.0267	
Easting (SFT)	969,938.4105	
Elevation (SFT)*	323.011	

Convergence Angle	0	40	1.6602840
Scale Factor	0.999955277		
Elevation Adjust. Factor	0.9999845496		
Combined Adjust. Factor	0.9999398273		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude	35	13	36.5435364
Longitude	93	8	47.2794252
Ellipsoid Height:	69.336		
Grid Northing (Meters)	99,731.9856		
Grid Easting (Meters)	295,637.8182		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 247, LOCATED ON THE SOUTH SIDE OF RUSSELLVILLE, GO SOUTH ON STATE HIGHWAY 7 FOR 0.41 KM (0.26 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.00 METERS SOUTHEAST OF THE CENTER OF A PAVED ROAD LEADING TO THE PORT OF DARDANELLE AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580012 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 499.200 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	580012A
Geodetic Azimuth	47 35 50.832688
Grid Azimuth	48 15 52.456033

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 CLARPORT</p> <p>Ref Mon # 2 PJTC CAMPUS</p> <p>Ref Mon # 3 RUSSPORT</p>	<div style="border: 1px solid black; height: 100px; width: 100%;"></div> <p style="text-align: center;">Comments</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580012A	Date Monumented 3/23/2000	Monumented By AHTD	County POPE	Route 7	Job Number: 080267, 080XX6,080495
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	100,064.2677 0.0066
Easting (M)	296,010.3211 0.0066
Elevation (M)*	103.537
Northing (SFT)	328,294.1849
Easting (SFT)	971,160.5285
Elevation (SFT)*	339.688

Convergence Angle	0 39 53.1774726
Scale Factor	0.999954950
Elevation Adjust. Factor	0.9999837519
Combined Adjust. Factor	0.9999387027

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude	35	13	47.4663108
Longitude	93	8	32.7018516
Ellipsoid Height:	74.425		
Grid Northing (Meters)	100,064.2814		
Grid Easting (Meters)	296,010.3148		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF CMP	219	27.21	89.3
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>CLARPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>PJTC CAMPUS</td> </tr> <tr> <td>Ref Mon # 3</td> <td>RUSSPORT</td> </tr> </table>	Ref Mon # 1	CLARPORT	Ref Mon # 2	PJTC CAMPUS	Ref Mon # 3	RUSSPORT	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	CLARPORT							
Ref Mon # 2	PJTC CAMPUS							
Ref Mon # 3	RUSSPORT							
Comments								

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum: GEOID09

Latitude 35 13 47.4658680

Longitude 93 8 32.7015960

Ellipsoid Height (M): 74.288 0.0138

Geoid Height (M): -29.204

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 247, LOCATED ON THE SOUTH SIDE OF RUSSELLVILLE, GO NORTH ON STATE HIGHWAY 7 FOR 0.09 KM (0.05 MI) TO THE STATION ON THE RIGHT. THE STATION IS 32.51 METERS NORTH-NORTHEAST OF THE CENTER OF A ENTRANCE TO A FIELD, 13.25 METERS EAST-SOUTHEAST OF THE CENTER OF STATE HIGHWAY 7 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580012A 2000" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 499.200 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580013	Date Monumented 3/23/2000	Monumented By AHTD	County POPE	Route 247	Job Number: 080267, 080XX6
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	99,304.0937
Easting (M)	300,151.7401
Elevation (M)*	119.058
Northing (SFT)	325,800.1807
Easting (SFT)	984,747.8340
Elevation (SFT)*	390.609

Convergence Angle	0 38 17.6816655
Scale Factor	0.999955645
Elevation Adjust. Factor	0.9999813163
Combined Adjust. Factor	0.9999369621

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	100	19.00	62.3
MK # 2	EAST END OF CMP	292	17.50	57.4
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CLARPORT Ref Mon # 2 PJTC CAMPUS Ref Mon # 3 RUSSPORT	

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 13 24.3278868

Longitude 93 5 48.5910096

Ellipsoid Height (M): 90.012

Geoid Height (M): -29.019

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 247, LOCATED ON THE SOUTH SIDE OF RUSSELLVILLE, GO EAST ON STATE HIGHWAY 247 FOR 4.51 KM (2.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 24.00 METERS EAST OF A PAVED ENTRANCE, 11.50 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 247, 0.95 METERS NORTH OF A PIPE FENCE AND 0.80 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580013 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 650.844 METERS.

AZ Mark Station	580013A
Geodetic Azimuth	89 12 53.422338
Grid Azimuth	89 51 11.037965

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580013A	Date Monumented 3/23/2000	Monumented By AHTD	County POPE	Route 247	Job Number: 080267, 080XX6
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 99,305.7627		Geoid Datum:
Easting (M) 300,802.5444		Latitude 35 13 24.6165240
Elevation (M)* 115.588		Longitude 93 5 22.8571980
Northing (SFT) 325,805.6565		Ellipsoid Height (M): 86.514
Easting (SFT) 986,883.0144		Geoid Height (M): -29.005
Elevation (SFT)* 379.225		

Convergence Angle 0 38 2.7071829	Scale Factor 0.999955637
Elevation Adjust. Factor 0.9999818608	Combined Adjust. Factor 0.9999374986

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CLARPORT Ref Mon # 2 PJTC CAMPUS Ref Mon # 3 RUSSPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580014	Date Monumented 3/23/2000	Monumented By AHTD	County POPE	Route 331	Job Number: 080267, 080XX6
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,642.6308	
Easting (M)	301,042.0715	
Elevation (M)*	131.707	
Northing (SFT)	336,753.3645	
Easting (SFT)	987,668.8629	
Elevation (SFT)*	432.109	

Convergence Angle	0	37	58.0437158
Scale Factor	0.999952488		
Elevation Adjust. Factor	0.9999793313		
Combined Adjust. Factor	0.9999318203		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF CMP	112	12.90	42.3
MK # 2	GATE POST	87	14.10	46.3
MK # 3	WEST IN-LINE BRACE POST	318	1.43	4.7

Area Reference Monuments (used for Processing) Ref Mon # 1 CLARPORT Ref Mon # 2 PJTC CAMPUS Ref Mon # 3 RUSSPORT	Comments DESTROYED IN APRIL OF 2013 BY PROPERTY OWNER CONSTRUCTING NEW DRIVEWAY.
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 15 12.9772620
Longitude	93 5 14.8429788
Ellipsoid Height (M):	102.711
Geoid Height (M):	-28.977

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 331 AND STATE HIGHWAY 247, LOCATED IN POTTSVILLE, GO WEST ON STATE HIGHWAY 331 FOR 3.78 KM (2.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.45 METERS WEST OF A PAVED ENTRANCE TO A PASTURE, 11.10 METERS NORTH OF THE CENTER OF STATE HIGHWAY 331 AND 0.84 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580014 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 557.751 METERS.

AZ Mark Station	580014A
Geodetic Azimuth	274 54 33.47016
Grid Azimuth	275 32 31.56554

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580014A	Date Monumented 3/23/2000	Monumented By AHTD	County POPE	Route 331	Job Number: 080267, 080XX6
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,696.4938	
Easting (M)	300,486.9590	
Elevation (M)*	124.327	
Northing (SFT)	336,930.0801	
Easting (SFT)	985,847.6313	
Elevation (SFT)*	407.896	

Convergence Angle	0	38	10.8353092
Scale Factor	0.999952445		
Elevation Adjust. Factor	0.9999804894		
Combined Adjust. Factor	0.9999329353		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	99	22.70	74.5
MK # 2	CORNER FENCE POST	247	2.10	6.9
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CLARPORT	
Ref Mon # 2 PJTC CAMPUS	
Ref Mon # 3 RUSSPORT	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 15 14.5255068
Longitude	93 5 36.8254716
Ellipsoid Height (M):	95.316
Geoid Height (M):	-28.989

Location Description
<p>TO REACH THE STATION FROM THENJUNCTION OF STATE HIGHWAY 331 AND STATE HIGHWAY 247, LOCATED IN POTTSVILLE, GO WEST ON STATE HIGHWAY 331 FOR 4.34 KM (2.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.25 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 331, 1.15 METERS NORTH OF A FENCE LINE AND 0.86 METERS NORTH OF A WITNESS POST. THE STATION MARK IS STANDAR 64mm CAP STAMPED "580014A 2000" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 557.751 METERS. THE SHOT DISTANCE IS 557.751 METERS.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580015	Date Monumented 3/23/2000	Monumented By AHTD	County POPE	Route 363	Job Number: 080XX6, 080500
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	102,125.3294 0.0020
Easting (M)	305,797.6291 0.0020
Elevation (M)*	118.487

Northing (SFT)	335,056.1849
Easting (SFT)	1,003,271.0548
Elevation (SFT)*	388.737

Convergence Angle	0 36	8.4523149
Scale Factor	0.999952911	
Elevation Adjust. Factor	0.9999814058	
Combined Adjust. Factor	0.9999343177	

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	14	57.8548716
Longitude	93	2	6.5097996
Ellipsoid Height:	89.671		
Grid Northing (Meters)	102,125.3223		
Grid Easting (Meters)	305,797.6078		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER OF BRIDGE	3	2.46	8.1
MK # 2	NONE			
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARLR, P777</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARFY	Ref Mon # 2	ARHR	Ref Mon # 3	ARLR, P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>SOURCE OF PREVIOUS ELEV. (388.9001') WAS UNDOCUMENTED. UPDATED ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM P 293 BY S5112 IN AUG. 2016 FOR JOB # 080500.</td> </tr> </table>	Comments	SOURCE OF PREVIOUS ELEV. (388.9001') WAS UNDOCUMENTED. UPDATED ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM P 293 BY S5112 IN AUG. 2016 FOR JOB # 080500.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARFY										
Ref Mon # 2	ARHR										
Ref Mon # 3	ARLR, P777										
Comments											
SOURCE OF PREVIOUS ELEV. (388.9001') WAS UNDOCUMENTED. UPDATED ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM P 293 BY S5112 IN AUG. 2016 FOR JOB # 080500.											

Vertical Determined By: 3rd Order - Digital Levels

Elevation Datum: NAVD 88

Geoid Datum: GEOID12A

Latitude 35 14 57.8551092

Longitude 93 2 6.5089608

Ellipsoid Height (M): 89.496 0.0030

Geoid Height (M): -28.982 0.0030

Location Description

THE STATION IS LOCATED ON THE NORTH SIDE OF POTTSVILLE, AT THE JUNCTION OF I-40 AND STATE HIGHWAY 363. THE STATION IS 19.60 METERS SOUTH OF THE EAST BOUND LANE OF I-40, 7.25 METERS EAST OF THE CENTER OF STATE HIGHWAY 363 AND 1.52 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580015 2000" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 490.339 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK P 293.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580015A	Date Monumented 3/23/2000	Monumented By AHTD	County POPE	Route I-40	Job Number: 080XX6
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,051.8081	
Easting (M)	306,282.3773	
Elevation (M)*	121.024	
Northing (SFT)	334,814.9737	
Easting (SFT)	1,004,861.4329	
Elevation (SFT)*	397.060	

Convergence Angle	0	35	57.2769720
Scale Factor	0.999952973		
Elevation Adjust. Factor	0.9999810077		
Combined Adjust. Factor	0.9999339816		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CLARPORT	
Ref Mon # 2 PJTC CAMPUS	
Ref Mon # 3 RUSSPORT	

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 14 55.6344132

Longitude 93 1 47.3040120

Ellipsoid Height (M): 92.111

Geoid Height (M): -28.861

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-40 AND STATE HIGHWAY 363, LOCATED ON THE NORTH SIDE OF POTTSVILLE, GO EAST ON I-40 FOR 0.49 KM (0.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.00 METERS NORTH OF THE CENTER OF I-40 WEST BOUND LANE, 9.55 METERS SOUTH OF A FENCE AND 9.35 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580015A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 490.339 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580016	Date Monumented 3/26/2002	Monumented By AHTD	County POPE	Route 326	Job Number: 080197
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	107,097.6957	0.0010			
Easting (M)	299,367.2543	0.0010			
Elevation (M)*	125.493	0.0119			
Northing (SFT)	351,369.6900				
Easting (SFT)	982,174.0668				
Elevation (SFT)*	411.723				

Convergence Angle	0	38	37.7476972
Scale Factor	0.999948728		
Elevation Adjust. Factor	0.9999803064		
Combined Adjust. Factor	0.9999290354		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude	35	17	36.5498808
Longitude	93	6	23.5264860
Ellipsoid Height:			
Grid Northing (Meters)	107,086.1281		
Grid Easting (Meters)	299,355.7090		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	171	21.50	70.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="RUSSPORT"/> Ref Mon # 2 <input type="text" value="CLARPORT"/> Ref Mon # 3 <input type="text" value="W H PHILLIPS"/>	Elevation was determined by 3wire in Job # 080197 from NGS K-25/U-65Reset. Updated 5/4/2023 SS didn't save before update.

Vertical Determined By:	None
Elevation Datum:	
Geoid Datum:	Geoid 18
Latitude	35 17 36.9294360
Longitude	93 6 23.0747040
Ellipsoid Height (M):	95.307 0.0040
Geoid Height (M):	-29.096 0.0040

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 326, LOCATED ON THE NORTHEAST SIDE OF RUSSELLVILLE, GO NORTH ON STATE HIGHWAY 326 FOR 0.19 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.45 METERS EAST OF THE CENTER OF STATE HIGHWAY 326 AND 1.110 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "580016 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580016A	Date Monumented 3/26/2002	Monumented By AHTD	County POPE	Route 326	Job Number: 080197,080427,080686
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	107,597.1664	0.0010	
Easting (M)	299,353.8933	0.0010	
Elevation (M)*	124.978	0.0124	
Northing (SFT)	353,008.3701		
Easting (SFT)	982,130.2316		
Elevation (SFT)*	410.032		

Convergence Angle	0	38	38.1846801
Scale Factor	0.999948335		
Elevation Adjust. Factor	0.9999803872		
Combined Adjust. Factor	0.9999287233		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude	35	17	53.1313440
Longitude	93	6	23.8254840
Ellipsoid Height:			
Grid Northing (Meters)	107,597.1675		
Grid Easting (Meters)	299,353.8979		

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	354	19.00	62.3	580016
MK # 2	OPTIC CABLE MARKER	186	4.05	13.3	179 09 10
MK # 3					179 47 48

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT	Elevation was determined by 3wire in Job # 080197 from NGS K-25/U-65Reset
Ref Mon # 2 CLARPORT	
Ref Mon # 3 W H PHILLIPS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580017	Date Monumented 3/26/2002	Monumented By AHTD	County POPE	Route N/A	Job Number: 080197
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	108,534.4851	
Easting (M)	297,239.7190	
Elevation (M)*		
Northing (SFT)	356,083.5565	
Easting (SFT)	975,193.9781	
Elevation (SFT)*		

Convergence Angle	0	39	27.1240389
Scale Factor	0.999947633		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER CONCRETE HEAD W	89	11.20	36.7
MK # 2	POWER POLE	81	12.65	41.5
MK # 3	POWER POLE	281	28.60	93.8

Area Reference Monuments (used for Processing) Ref Mon # 1 RUSSPORT Ref Mon # 2 CLARPORT Ref Mon # 3 W H PHILLIPS	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 18 22.7660544
Longitude	93 7 47.9284860
Ellipsoid Height (M):	91.465
Geoid Height (M):	-29.004

Location Description
TO REACH THE STATION FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF RUSSELLVILLE, GO NORTH ON STATE HIGHWAY 7 FOR 0.05 MILES TO EAST ASPEN LANE, TURN RIGHT (EAST) ON ASPEN LANE AND GO EAST ON ASPEN LANE FOR 0.50 MILES TO THE STATION ON THE RIGHT. THIS STATION IS LOCATED INSIDE THE FENCE OF THE DISTRICT 8 A.H.T.D. AREA HEAD QUARTERS. TO DRIVE IN TO THE STATION GO THROUGH GATE, DRIVE PAST SERVICE STATION AND FOLLOW SERVICE ROAD AROUND EQUIPMENT LOT TO THE STATION. THE STATION IS 5.25 METERS SOUTH OF A CHAIN LINK FENCE LINE, 4.20 METERS NORTH OF THE CENTER LINE OF THE SERVICE ROAD, AND 5.05 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "580017 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	580017A
Geodetic Azimuth	279 42 05
Grid Azimuth	280 21 32

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580017A	Date Monumented 3/26/2002	Monumented By AHTD	County POPE	Route N/A	Job Number: 080197
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	108,629.2781	
Easting (M)	296,721.1340	
Elevation (M)*		
Northing (SFT)	356,394.5566	
Easting (SFT)	973,492.5871	
Elevation (SFT)*		

Convergence Angle	0	39	39.0939787
Scale Factor	0.999947565		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	RUSSPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	W H PHILLIPS

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 18 25.6482684
Longitude	93 8 8.4989580
Ellipsoid Height (M):	92.730
Geoid Height (M):	-29.014

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF RUSSELLVILLE, GO NORTH ON STATE HIGHWAY 7 FOR 0.05 MILES TO EAST ASPEN LANE, TURN RIGHT (EAST) ON ASPEN LANE AND GO EAST ON ASPEN LANE FOR 0.15 MILES TO THE STATION ON THE LEFT. THE STATION IS 20.00 METERS EAST OF THE CENTER OF A PAVED DRIVE, 12.00 METERS NORTH OF THE CENTER OF EAST ASPEN LANE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "580017A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	580017
Geodetic Azimuth	99 41 53
Grid Azimuth	100 21 32

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580018	Date Monumented 8/26/2002	Monumented By AHTD	County POPE	Route 164	Job Number: 080252
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	129,206.1901	
Easting (M)	293,335.9400	
Elevation (M)*		
Northing (SFT)	423,903.9754	
Easting (SFT)	962,386.3298	
Elevation (SFT)*		

Convergence Angle	0	41	2.7259307
Scale Factor	0.999937218		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	333	12.00	39.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HAR 1	
Ref Mon # 2 RUSSPORT	
Ref Mon # 3 OZARPORT	

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 29 32.0247096

Longitude 93 10 32.2213800

Ellipsoid Height (M): 127.089

Geoid Height (M): -28.721

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 164, LOCATED ABOUT 5 MILES NORTH OF DOVER, GO WEST ON STATE HIGHWAY 164 FOR 2.9 MILES TO THE STATION ON THE LEFT. THE STATION IS 11.90 METERS WEST OF THE CENTER OF STATE HIGHWAY 164 AND 0.47 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "580018 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580018A	Date Monumented 8/26/2002	Monumented By AHTD	County POPE	Route 164	Job Number: 080252
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	129,735.2170	
Easting (M)	293,228.0100	
Elevation (M)*		
Northing (SFT)	425,639.6244	
Easting (SFT)	962,032.2295	
Elevation (SFT)*		

Convergence Angle	0	41	5.3636341
Scale Factor	0.999937089		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	14	4.40	14.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HAR 1	
Ref Mon # 2 RUSSPORT	
Ref Mon # 3 OZARPORT	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 29 49.1481420
Longitude	93 10 36.7543020
Ellipsoid Height (M):	113.236
Geoid Height (M):	-28.710

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 164, LOCATED ABOUT 5 MILES NORTH OF DOVER, GO WEST ON STATE HIGHWAY 164 FOR 3.20 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.10 METERS WEST OF THE CENTER OF STATE HIGHWAY 164, 0.75 METERS EAST OF A PIPE FENCE LINE AND 0.58 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "580018A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	5800018
Geodetic Azimuth	167 47 03
Grid Azimuth	168 28 08

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580019	Date Monumented 8/26/2002	Monumented By AHTD	County POPE	Route 27	Job Number: 080254
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	131,976.5330	
Easting (M)	312,168.6190	
Elevation (M)*		
Northing (SFT)	432,993.0087	
Easting (SFT)	1,024,173.2108	
Elevation (SFT)*		

Convergence Angle	0	33	48.5654420
Scale Factor	0.999936579		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WEST GATE POST	338	6.30	20.7	
MK # 2	EAST GATE POST	7	10.00	32.8	
MK # 3					

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>AHTD HAR 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>RUSSPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>OZARPORT</td> </tr> </table>	Ref Mon # 1	AHTD HAR 1	Ref Mon # 2	RUSSPORT	Ref Mon # 3	OZARPORT	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	AHTD HAR 1						
Ref Mon # 2	RUSSPORT						
Ref Mon # 3	OZARPORT						

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 31 8.5677528

Longitude 92 58 6.1118436

Ellipsoid Height (M): 155.602

Geoid Height (M): -28.416

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 105 AND STATE HIGHWAY 27 LOCATED ON THE SOUTH SIDE OF HECTOR, GO NORTH ON STATE HIGHWAY 27 FOR 5.15 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.45 METERS WEST OF THE CENTER OF STATE HIGHWAY 27, 6.25 METERS SOUTHWEST OF A FIELD ENTRANCE, AND 1.85 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "580019 2002" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580019A	Date Monumented 8/26/2002	Monumented By AHTD	County POPE	Route 27	Job Number: 080254
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	132,099.3131	
Easting (M)	312,481.5700	
Elevation (M)*		
Northing (SFT)	433,395.8297	
Easting (SFT)	1,025,199.9509	
Elevation (SFT)*		

Convergence Angle	0	33	41.3657370
Scale Factor	0.999936557		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE CORNER POST	166	1.80	5.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HAR 1 Ref Mon # 2 RUSSPORT Ref Mon # 3 OZARPORT	

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 31 12.6513516
Longitude	92 57 53.7390720
Ellipsoid Height (M):	154.263
Geoid Height (M):	-28.408

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 105 AND STATE HIGHWAY 27 LOCATED ON THE SOUTH SIDE OF HECTOR, GO NORTH ON STATE HIGHWAY 27 FOR 5.35 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.25 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 27, 3.60 METERS SOUTHWEST OF A GRAVEL FIELD ENTRANCE, AND 1.60 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "580019A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580020	Date Monumented 10/26/2005	Monumented By AHTD	County POPE	Route 164	Job Number: 008818
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	125,070.2641	
Easting (M)	305,403.7320	
Elevation (M)*	163.583	
Northing (SFT)	410,334.6915	
Easting (SFT)	1,001,978.7441	
Elevation (SFT)*	536.688	

Convergence Angle	0	36	23.1087551
Scale Factor	0.999938420		
Elevation Adjust. Factor	0.9999743292		
Combined Adjust. Factor	0.9999127508		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	"T" fence post		358	3.40	11.2
MK # 2	"T" fence post		232	3.50	11.5
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 Russport Ref Mon # 2 Tri County Ref Mon # 3 W. H. Phillips, D 126	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3 wire level elevations were ran by S5111 in Jan 2006 in Job 008818 from NGS D 126.</td> </tr> </table>	Comments	3 wire level elevations were ran by S5111 in Jan 2006 in Job 008818 from NGS D 126.
Comments			
3 wire level elevations were ran by S5111 in Jan 2006 in Job 008818 from NGS D 126.			

Location Description
To reach the station from the junction of highways 164 and 27 in Scottsville, go North on Hwy-164 for 0.60 miles to the station on the left. 43.20 meters Southwest of a gravel drive, 11.0 meters Northwest of the center of Hwy-164 and 1.40 meters Southeast of a witness post. The station mark is a standard 64mm cap stamped "580020 2005" set on top of an iron rod 1.22 meters long and is just below the grounds surface.

AZ Mark Station	580020A
Geodetic Azimuth	025 20 44
Grid Azimuth	025 57 07

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580020A	Date Monumented 10/26/2005	Monumented By AHTD	County POPE	Route 164	Job Number: 008818
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	125,327.2361		
Easting (M)	305,528.7990		
Elevation (M)*	158.964		
Northing (SFT)	411,177.7738		
Easting (SFT)	1,002,389.0681		
Elevation (SFT)*	521.535		

Convergence Angle	0	36	20.2853361
Scale Factor	0.999938331		
Elevation Adjust. Factor	0.9999750540		
Combined Adjust. Factor	0.9999133865		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18 inch CMP	195	31.10	102.0
MK # 2	Corner fence post	279	21.50	70.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Russport	3 wire level elevations were ran by S5111 in Jan 2006 in Job 008818 from NGS D 126.
Ref Mon # 2 Tri County	
Ref Mon # 3 W. H. Phillips, D 126	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580021	Date Monumented 3/1/2007	Monumented By AHTD	County POPE	Route NA	Job Number: 080295
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	106,506.3031
Easting (M)	293,951.9280
Elevation (M)*	112.949
Northing (SFT)	349,429.4294
Easting (SFT)	964,407.2838
Elevation (SFT)*	370.568

Convergence Angle	0	40	42.2994781
Scale Factor	0.999949252		
Elevation Adjust. Factor	0.9999822749		
Combined Adjust. Factor	0.9999315278		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH CORNER BRICK BLDGING	224	16.95	55.6
MK # 2	CENTER MANHOLE COVER	53	23.01	75.5
MK # 3	COMBINATION POLE	293	18.29	60.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARFY Ref Mon # 3 DQUA	3-wire levels ran by crew S5101 in Sept. 07 from NGS 1st Order Mark Q 292.

Location Description	
TO REACH THE STATION MARK FORM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 326, ON THE WEST EDGE OF RUSSELLVILLE, GO EAST ON STATE HIGHWAY 64 1.0 MILES TO SKYLINE DRIVE ON THE RIGHT, TURN RIGHT ONTO SKYLINE DRIVE AND GO 0.05 MILES TO THE STATION MARK ON THE LEFT, 16.4 FEET SOUTHWEST OF AN ASPHALT DRIVE, 1.2 FEET NORTHWEST OF A CONCRETE SIDEWALK, SOUTHWEST 109.0 FEET OF THE CENTERLINE OF MAIN PLACE STREET AND SOUTHEAST 25.0 FEET OF THE CENTERLINE OF SKYLINE DRIVE. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580021 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580022	Date Monumented 7/13/2010	Monumented By AHTD	County POPE	Route 7	Job Number: 080392,080422
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas North</td> <td>301</td> </tr> <tr> <td>Horizontal Datum</td> <td>NAD 83 (1997)</td> </tr> <tr> <td>Northing (M)</td> <td>140,904.5650</td> </tr> <tr> <td>Easting (M)</td> <td>303,951.5950</td> </tr> <tr> <td>Elevation (M)*</td> <td>546.916</td> </tr> <tr> <td>Northing (SFT)</td> <td>462,284.3937</td> </tr> <tr> <td>Easting (SFT)</td> <td>997,214.5246</td> </tr> <tr> <td>Elevation (SFT)*</td> <td>1,794.341</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Convergence Angle</td> <td>0 37</td> <td>0.5527197</td> </tr> <tr> <td>Scale Factor</td> <td colspan="2">0.999935967</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td colspan="2">0.9999141784</td> </tr> <tr> <td>Combined Adjust. Factor</td> <td colspan="2">0.9998501509</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;">SUPERCEDED CONTROL</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas North	301	Horizontal Datum	NAD 83 (1997)	Northing (M)	140,904.5650	Easting (M)	303,951.5950	Elevation (M)*	546.916	Northing (SFT)	462,284.3937	Easting (SFT)	997,214.5246	Elevation (SFT)*	1,794.341	Convergence Angle	0 37	0.5527197	Scale Factor	0.999935967		Elevation Adjust. Factor	0.9999141784		Combined Adjust. Factor	0.9998501509		Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Vertical Determined By:</td> <td>3rd Order - digital</td> </tr> <tr> <td>Elevation Datum:</td> <td>NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td>Geoid 96</td> </tr> <tr> <td>Latitude</td> <td>35 35 55.5106884</td> </tr> <tr> <td>Longitude</td> <td>93 3 36.0440748</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>518.635</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.281</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center;">Location Description</p> <p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7,123S AND STATE HIGHWAY 16E, AT SAND GAP, GO SOUTH ON HIGHWAY 7 FOR 10.75 MILES TO THE MARK ON THE RIGHT, SOUTH WEST 28.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH EAST 11.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580022 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p> </div>	Vertical Determined By:	3rd Order - digital	Elevation Datum:	NAVD 88	Geoid Datum:	Geoid 96	Latitude	35 35 55.5106884	Longitude	93 3 36.0440748	Ellipsoid Height (M):	518.635	Geoid Height (M):	-28.281
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Geoid Height (M):	-28.281																																																								

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	580022A
Geodetic Azimuth	132 36 46
Grid Azimuth	133 13 46

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY, 510011</p> <p>Ref Mon # 2 ARRS</p> <p>Ref Mon # 3 P777</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Comments</p> <p>LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392</p> </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580022A	Date Monumented 7/13/2010	Monumented By AHTD	County POPE	Route 7	Job Number: 080392,080422
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas North</td> <td>301</td> </tr> <tr> <td>Horizontal Datum</td> <td>NAD 83 (1997)</td> </tr> <tr> <td>Northing (M)</td> <td>140,680.0360</td> </tr> <tr> <td>Easting (M)</td> <td>304,190.4460</td> </tr> <tr> <td>Elevation (M)*</td> <td>524.982</td> </tr> <tr> <td>Northing (SFT)</td> <td>461,547.7514</td> </tr> <tr> <td>Easting (SFT)</td> <td>997,998.1549</td> </tr> <tr> <td>Elevation (SFT)*</td> <td>1,722.378</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Convergence Angle</td> <td style="width: 10%;">0</td> <td style="width: 10%;">36</td> <td style="width: 30%;">54.9753841</td> </tr> <tr> <td>Scale Factor</td> <td colspan="3">0.999935959</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td colspan="3">0.9999176200</td> </tr> <tr> <td>Combined Adjust. Factor</td> <td colspan="3">0.9998535843</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 10px;"> SUPERCEDED CONTROL </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas North	301	Horizontal Datum	NAD 83 (1997)	Northing (M)	140,680.0360	Easting (M)	304,190.4460	Elevation (M)*	524.982	Northing (SFT)	461,547.7514	Easting (SFT)	997,998.1549	Elevation (SFT)*	1,722.378	Convergence Angle	0	36	54.9753841	Scale Factor	0.999935959			Elevation Adjust. Factor	0.9999176200			Combined Adjust. Factor	0.9998535843			Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Vertical Determined By:</td> <td style="width: 50%;">3rd Order - digital</td> </tr> <tr> <td>Elevation Datum:</td> <td>NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td>Geoid 96</td> </tr> <tr> <td>Latitude</td> <td>35 35 48.3087732</td> </tr> <tr> <td>Longitude</td> <td>93 3 26.4593628</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>496.697</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.285</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">Location Description</p> <p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7,123S AND STATE HIGHWAY 16E, AT SAND GAP, GO SOUTH ON HIGHWAY 7 FOR 10.95 MILES TO THE MARK ON THE LEFT. IT IS NORTH EAST 18.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH WEST 43.0 FEET OF A WITNESS POST.IT IS 34.3 FEET SOUTH WEST OF CENTERLINE OF A POWER LINE AND 165.6 FEET SOUTH EAST OF A DRIVE. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580022A 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p> </div>	Vertical Determined By:	3rd Order - digital	Elevation Datum:	NAVD 88	Geoid Datum:	Geoid 96	Latitude	35 35 48.3087732	Longitude	93 3 26.4593628	Ellipsoid Height (M):	496.697	Geoid Height (M):	-28.285
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Geoid Height (M):	-28.285																																																												

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	BOX CU 48" NORTH EAST END	127	24.23	79.5
MK # 2				
MK # 3				

AZ Mark Station	580022
Geodetic Azimuth	312 36 52
Grid Azimuth	313 13 46

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY, 510011</p> <p>Ref Mon # 2 ARRS</p> <p>Ref Mon # 3 P777</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392</td> </tr> </table>	Comments	LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392
Comments			
LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580023	Date Monumented 7/13/2010	Monumented By AHTD	County POPE	Route 7	Job Number: 080392
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	143,971.0240	
Easting (M)	303,699.4470	
Elevation (M)*	553.420	
Northing (SFT)	472,344.9346	
Easting (SFT)	996,387.2690	
Elevation (SFT)*	1,815.678	

Convergence Angle	0	37	7.1471488
Scale Factor	0.999936205		
Elevation Adjust. Factor	0.9999131579		
Combined Adjust. Factor	0.9998493685		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY, 510011	LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010
Ref Mon # 2 ARRS	
Ref Mon # 3 P777	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580023A	Date Monumented 7/13/2010	Monumented By AHTD	County POPE	Route 7	Job Number: 080392
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	144,400.5140	
Easting (M)	303,208.7640	
Elevation (M)*	561.706	
Northing (SFT)	473,754.0197	
Easting (SFT)	994,777.4199	
Elevation (SFT)*	1,842.862	

Convergence Angle	0	37	18.6021043
Scale Factor	0.999936256		
Elevation Adjust. Factor	0.9999118579		
Combined Adjust. Factor	0.9998481195		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	14" CEDAR TREE	41	18.59	61.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY, 510011	LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010
Ref Mon # 2 ARRS	
Ref Mon # 3 P777	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580024	Date Monumented 7/14/2010	Monumented By AHTD	County POPE	Route 7	Job Number: 080392
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	149,385.0200	
Easting (M)	300,801.9570	
Elevation (M)*	587.534	
Northing (SFT)	490,107.3531	
Easting (SFT)	986,881.0873	
Elevation (SFT)*	1,927.600	

Convergence Angle	0	38	15.5454954
Scale Factor	0.999937182		
Elevation Adjust. Factor	0.9999078053		
Combined Adjust. Factor	0.9998449931		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY, 510011	LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010
Ref Mon # 2 ARRS	
Ref Mon # 3 P777	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580024A	Date Monumented 7/14/2010	Monumented By AHTD	County POPE	Route 7	Job Number: 080392
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	149,727.1680				
Easting (M)	300,905.6160				
Elevation (M)*	587.091				
Northing (SFT)	491,229.8837				
Easting (SFT)	987,221.1752				
Elevation (SFT)*	1,926.148				

Convergence Angle	0	38	13.2349406
Scale Factor	0.999937268		
Elevation Adjust. Factor	0.9999078748		
Combined Adjust. Factor	0.9998451485		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7,123S AND STATE HIGHWAY 16E, AT SAND GAP, GO SOUTH ON HIGHWAY 7 FOR 3.22 MILES TO THE MARK ON THE LEFT. IT IS EAST 21.01 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 19.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580024A 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARFY	
Ref Mon # 2	ARRS	
Ref Mon # 3	P777	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580025	Date Monumented 7/14/2010	Monumented By AHTD	County POPE	Route 7	Job Number: 080392
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	153,060.9610
Easting (M)	300,377.1020
Elevation (M)*	556.413
Northing (SFT)	502,167.5029
Easting (SFT)	985,487.2088
Elevation (SFT)*	1,825.497

Convergence Angle	0 38 26.3273693
Scale Factor	0.999938258
Elevation Adjust. Factor	0.9999126883
Combined Adjust. Factor	0.9998509517

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:		3rd Order - 3 Wire Level	
Elevation Datum:		NAVD 88	
Geoid Datum:		Geoid 96	
Latitude	35 42	28.6690932	
Longitude	93 6	3.4487460	
Ellipsoid Height (M):		528.356	
Geoid Height (M):		-28.056	

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7,123S AND STATE HIGHWAY 16E, AT SAND GAP, GO SOUTH ON HIGHWAY 7 FOR 0.98 MILES TO THE MARK ON THE LEFT. IT IS SOUTH EAST 21.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH WEST 52.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580025 2010" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TB	178	25.76	84.5
MK # 2	ROCK BOX CU HOWL	30	23.47	77.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY, 510011	LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010
Ref Mon # 2 ARRS	
Ref Mon # 3 P777	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580025A	Date Monumented 7/14/2010	Monumented By AHTD	County POPE	Route 7	Job Number: 080392
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	153,431.3729	
Easting (M)	300,416.8930	
Elevation (M)*	569.456	
Northing (SFT)	503,382.7626	
Easting (SFT)	985,617.7565	
Elevation (SFT)*	1,868.289	

Convergence Angle	0	38	25.5021063
Scale Factor	0.999938385		
Elevation Adjust. Factor	0.9999106418		
Combined Adjust. Factor	0.9998490323		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	PP	18	27.89	91.5	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY, 510011 Ref Mon # 2 ARRS Ref Mon # 3 P777	Comments LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010
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Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7,123S AND STATE HIGHWAY 16E, AT SAND GAP, GO SOUTH ON HIGHWAY 7 FOR 0.75 MILES TO THE MARK ON THE RIGHT. IT IS NORTH WEST 31.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH EAST 18.0 FEET OF A WITNESS POST. IT IS 119.2 FEET SOUTH WEST OF CENTERLINE OF A DRIVE. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580025A 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	580025
Geodetic Azimuth	185 29 28
Grid Azimuth	186 07 53

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580026	Date Monumented 9/27/2011	Monumented By AHTD	County POPE	Route 7	Job Number: 080422
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	134,711.0109	
Easting (M)	300,525.7437	
Elevation (M)*	421.738	
Northing (SFT)	441,964.3749	
Easting (SFT)	985,974.8775	
Elevation (SFT)*	1,383.653	

Convergence Angle	0	38	18.1535568
Scale Factor	0.999936198		
Elevation Adjust. Factor	0.9999338199		
Combined Adjust. Factor	0.9998700221		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	HIGH VOLTAGE POWER POLE	225	14.48	47.5
MK # 2				
MK # 3				

AZ Mark Station	580026A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392. DIGITAL LEVELS THEN RAN FROM GPS 580022A ALONG W/A GPS CHECK ON TT 72 TX IN FEB. OF 2012 UNDER JOB #080392. **NOTE: ELEV. ON THIS POINT FROM DIGITAL LEVELS USED AS A CONSTRAINT FOR GPS STATIC ADJUSTMENT.
Ref Mon # 2	
Ref Mon # 3	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580026A	Date Monumented 9/27/2011	Monumented By AHTD	County POPE	Route 7	Job Number: 080422
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	135,275.3622	
Easting (M)	300,968.0040	
Elevation (M)*	425.861	
Northing (SFT)	443,815.9175	
Easting (SFT)	987,425.8598	
Elevation (SFT)*	1,397.179	

Convergence Angle	0	38	8.0814827
Scale Factor	0.999936137		
Elevation Adjust. Factor	0.9999331730		
Combined Adjust. Factor	0.9998693143		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 164, 5 MILES NORTH OF DOVER, GO NORTH ON HIGHWAY 7 FOR 7.4 MILES TO THE STATION MARK ON THE LEFT, NORTHWEST 56.3 FEET OF THE CENTERLINE OF THE HIGHWAY AND 19 FEET SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580026A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <p>LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392. DIGITAL LEVELS THEN RAN FROM GPS 580022A ALONG W/A GPS CHECK ON TT 72 TX IN FEB. OF 2012 UNDER JOB #080392. **NOTE: ELEV. ON THIS POINT FROM DIGITAL LEVELS USED AS A CONSTRAINT FOR GPS STATIC ADJUSTMENT.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580027	Date Monumented 9/27/2011	Monumented By AHTD	County POPE	Route 7	Job Number: 080422
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	136,685.3043	
Easting (M)	302,966.7217	
Elevation (M)*	400.562	
Northing (SFT)	448,441.7025	
Easting (SFT)	993,983.3194	
Elevation (SFT)*	1,314.176	

Convergence Angle	0	37	22.2599639
Scale Factor	0.999936020		
Elevation Adjust. Factor	0.9999371428		
Combined Adjust. Factor	0.9998731668		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UNDERGROUND UTIL MARKER (WATER)	160	10.18	33.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments
LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392. DIGITAL LEVELS THEN RAN FROM GPS 580022A ALONG W/A GPS CHECK ON TT 72 TX IN FEB. OF 2012 UNDER JOB #080392. **NOTE: ELEV. ON THIS POINT FROM DIGITAL LEVELS USED AS A CONSTRAINT FOR GPS STATIC ADJUSTMENT.

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 164, 5 MILES NORTH OF DOVER, GO NORTH ON HIGHWAY 7 FOR 8.9 MILES TO THE STATION MARK ON THE RIGHT, 175.6 FEET SOUTHWEST OF THE CENTERLINE OF A GRAVEL DRIVEWAY, SOUTHEAST 56.3 FEET OF THE CENTERLINE OF THE HIGHWAY AND 26 FEET NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580027 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	580027A
Geodetic Azimuth	
Grid Azimuth	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580027A	Date Monumented 9/27/2011	Monumented By AHTD	County POPE	Route 7	Job Number: 080422
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	137,114.4235	
Easting (M)	303,270.9749	
Elevation (M)*	391.013	
Northing (SFT)	449,849.5711	
Easting (SFT)	994,981.5235	
Elevation (SFT)*	1,282.847	

Convergence Angle	0	37	15.3372445
Scale Factor	0.999935994		
Elevation Adjust. Factor	0.9999386411		
Combined Adjust. Factor	0.9998746391		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	140	7.30	24.0
MK # 2	POWER POLE W/2 GUYS	52	28.96	95.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392. DIGITAL LEVELS THEN RAN FROM GPS 580022A ALONG W/A GPS CHECK ON TT 72 TX IN FEB. OF 2012 UNDER JOB #080392. **NOTE: ELEV. ON THIS POINT FROM DIGITAL LEVELS USED AS A CONSTRAINT FOR GPS STATIC ADJUSTMENT. </td> </tr> </table>	Comments	LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392. DIGITAL LEVELS THEN RAN FROM GPS 580022A ALONG W/A GPS CHECK ON TT 72 TX IN FEB. OF 2012 UNDER JOB #080392. **NOTE: ELEV. ON THIS POINT FROM DIGITAL LEVELS USED AS A CONSTRAINT FOR GPS STATIC ADJUSTMENT.
Comments			
LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392. DIGITAL LEVELS THEN RAN FROM GPS 580022A ALONG W/A GPS CHECK ON TT 72 TX IN FEB. OF 2012 UNDER JOB #080392. **NOTE: ELEV. ON THIS POINT FROM DIGITAL LEVELS USED AS A CONSTRAINT FOR GPS STATIC ADJUSTMENT.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 164, 5 MILES NORTH OF DOVER, GO NORTH ON HIGHWAY 7 FOR 9.2 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST 20 FEET OF THE CENTERLINE OF THE HIGHWAY AND 22.5 FEET NORTHWEST OF A WITNESS POSWT. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580027A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	580027
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580028	Date Monumented 11/10/2011	Monumented By AHTD	County POPE	Route N/A	Job Number: 080427
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	111,228.5714	
Easting (M)	301,294.9658	
Elevation (M)*	139.643	
Northing (SFT)	364,922.4047	
Easting (SFT)	988,498.5670	
Elevation (SFT)*	458.145	

Convergence Angle	0	37	54.4018147
Scale Factor	0.999945647		
Elevation Adjust. Factor	0.9999780860		
Combined Adjust. Factor	0.9999237342		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE	318	3.66	12.0	AZ Mark Station 580028A
MK # 2	COMBINATION POLE W/ 3 GUYS	56	26.82	88.0	Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital Levels were ran by CLS from TBM 904 from Job 080389 and NGS BM X 65 during Job 080427 in March 2012</td> </tr> </table>	Comments	Digital Levels were ran by CLS from TBM 904 from Job 080389 and NGS BM X 65 during Job 080427 in March 2012
Comments			
Digital Levels were ran by CLS from TBM 904 from Job 080389 and NGS BM X 65 during Job 080427 in March 2012			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580028A	Date Monumented 11/10/2011	Monumented By AHTD	County POPE	Route N/A	Job Number: 080427
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	111,456.1678	
Easting (M)	300,854.5617	
Elevation (M)*	140.020	
Northing (SFT)	365,669.1105	
Easting (SFT)	987,053.6745	
Elevation (SFT)*	459.382	

Convergence Angle	0	38	4.6070429
Scale Factor	0.999945494		
Elevation Adjust. Factor	0.9999780268		
Combined Adjust. Factor	0.9999235220		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	148	24.38	80.0	580028
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Digital Levels were ran by CLS from TBM 904 from Job 080389 and NGS BM X 65 during Job 080427 in March 2012

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580029	Date Monumented 2/16/2012	Monumented By AHTD	County POPE	Route 64	Job Number: 080443
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	101,209.7605	
Easting (M)	316,083.8219	
Elevation (M)*	100.779	
Northing (SFT)	332,052.3559	
Easting (SFT)	1,037,018.3390	
Elevation (SFT)*	330.640	

Convergence Angle	0	32	11.4909177
Scale Factor	0.999953662		
Elevation Adjust. Factor	0.9999841847		
Combined Adjust. Factor	0.9999378474		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	60	31.09	102.0
MK # 2	POWER POLE	300	28.35	93.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATIONS BY S5112 ON 2/16/2012 FROM H 293 USING DIGITAL 3 WIRE LEVELS AND CHECKED BY GPS FROM P 293. DIGITAL ELEVATIONS ON THIS GPS POINT WERE USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT BUT NOT IN THE INITIAL ADJUSTMENT USED TO CHECK GPS TIE BETWEEN H 293 & P 293.</td> </tr> </table>	Comments	ELEVATIONS BY S5112 ON 2/16/2012 FROM H 293 USING DIGITAL 3 WIRE LEVELS AND CHECKED BY GPS FROM P 293. DIGITAL ELEVATIONS ON THIS GPS POINT WERE USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT BUT NOT IN THE INITIAL ADJUSTMENT USED TO CHECK GPS TIE BETWEEN H 293 & P 293.
Comments			
ELEVATIONS BY S5112 ON 2/16/2012 FROM H 293 USING DIGITAL 3 WIRE LEVELS AND CHECKED BY GPS FROM P 293. DIGITAL ELEVATIONS ON THIS GPS POINT WERE USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT BUT NOT IN THE INITIAL ADJUSTMENT USED TO CHECK GPS TIE BETWEEN H 293 & P 293.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 105 AND STATE HIGHWAY 64E, IN ATKINS, GO EAST ON HIGHWAY 64 0.8 MILES TO THE STATION MARK ON THE LEFT, 22.6 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580029 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	580029A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580029A	Date Monumented 2/16/2012	Monumented By AHTD	County POPE	Route 64	Job Number: 080443
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	101,191.5755
Easting (M)	316,776.1629
Elevation (M)*	100.905
Northing (SFT)	331,992.6940
Easting (SFT)	1,039,289.7944
Elevation (SFT)*	331.051

Convergence Angle	0 31 55.5524017
Scale Factor	0.999953673
Elevation Adjust. Factor	0.9999841650
Combined Adjust. Factor	0.9999378388

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	90	24.87	81.6
MK # 2	UNDERGROUND CABLE MARKER	270	15.24	50.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATIONS BY S5112 ON 2/16/2012 FROM H 293 USING DIGITAL 3 WIRE LEVELS AND CHECKED BY GPS FROM P 293. DIGITAL ELEVATIONS ON THIS GPS POINT WERE USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT BUT NOT IN THE INITIAL ADJUSTMENT USED TO CHECK GPS TIE BETWEEN H 293 & P 293.</td> </tr> </table>	Comments	ELEVATIONS BY S5112 ON 2/16/2012 FROM H 293 USING DIGITAL 3 WIRE LEVELS AND CHECKED BY GPS FROM P 293. DIGITAL ELEVATIONS ON THIS GPS POINT WERE USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT BUT NOT IN THE INITIAL ADJUSTMENT USED TO CHECK GPS TIE BETWEEN H 293 & P 293.
Comments			
ELEVATIONS BY S5112 ON 2/16/2012 FROM H 293 USING DIGITAL 3 WIRE LEVELS AND CHECKED BY GPS FROM P 293. DIGITAL ELEVATIONS ON THIS GPS POINT WERE USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT BUT NOT IN THE INITIAL ADJUSTMENT USED TO CHECK GPS TIE BETWEEN H 293 & P 293.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 105 AND STATE HIGHWAY 64E, IN ATKINS, GO EAST ON HIGHWAY 64 1.2 MILES TO THE STATION MARK ON THE RIGHT, 27.3 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY AND 48.4 FEET NORTH OF NORTH RAIL OF THE RAILROAD TRACKS. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580029A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	580029
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580030	Date Monumented 3/12/2015	Monumented By AHTD	County POPE	Route I 40	Job Number: 080497
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	111,947.8124	0.0030	
Easting (M)	283,230.1032	0.0030	
Elevation (M)*	134.125		
Northing (SFT)	367,282.1145		
Easting (SFT)	929,230.7636		
Elevation (SFT)*	440.041		

Convergence Angle	0	44	50.8323960
Scale Factor	0.999945304		
Elevation Adjust. Factor	0.9999789519		
Combined Adjust. Factor	0.9999242570		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 334 AND I 40 OVERPASS (EXIT 74), NORTH OF LONDON, GO WEST ON I 40 FOR 1.65 MILES TO MARK ON LEFT, SOUTH 36 FEET FROM EDGE OF PAVEMENT AND NORTH 8.4 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 580030" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	580030A
			Meters	Feet		
MK # 1					Geodetic Azimuth	
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	ELEVATION BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM B 294 IN MARCH OF 2015 FOR JOB #080497.
Ref Mon # 2 ARHR	
Ref Mon # 3 P777	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580030A	Date Monumented 3/12/2015	Monumented By AHTD	County POPE	Route I 40	Job Number: 080497
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	112,006.5154	0.0030
Easting (M)	282,568.3566	0.0020
Elevation (M)*	136.268	

Northing (SFT)	367,474.7093	
Easting (SFT)	927,059.6833	
Elevation (SFT)*	447.072	

Convergence Angle	0	45	6.0976125
Scale Factor	0.999945270		
Elevation Adjust. Factor	0.9999786156		
Combined Adjust. Factor	0.9999238868		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 334 AND I 40 OVERPASS (EXIT 74), NORTH OF LONDON, GO WEST ON I 40 FOR 2.05 MILES TO MARK ON LEFT, SOUTH 25.7 FEET FROM EDGE OF PAVEMENT AND NORTH 6.2 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 580030A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

AZ Mark Station	580030
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	<div style="border: 1px solid black; padding: 5px;"> <p>Comments</p> <p>ELEVATION BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM B 294 IN MARCH OF 2015 FOR JOB #080497.</p> </div>
Ref Mon # 1 ARLR Ref Mon # 2 ARHR Ref Mon # 3 P777	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580031	Date Monumented 1/20/2016	Monumented By AHTD	County POPE	Route 7	Job Number: 080506,CROOKED CREEK
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	121,973.1238	0.0020			
Easting (M)	296,973.0852	0.0020			
Elevation (M)*					
Northing (SFT)	400,173.4903				
Easting (SFT)	974,319.1970				
Elevation (SFT)*					

Convergence Angle	0	39	36.8325289		
Scale Factor	0.999939661				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	POWER POLE		5	38.20	125.3
MK # 2	SOUTH HEADWAL		195	16.00	52.5
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 ARHR Ref Mon # 3 ARLR, P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM B 326.</td> </tr> </table>	Comments	GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM B 326.
Comments			
GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM B 326.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 333, NORTH OF DOVER, GO NORTH ON HIGHWAY 7 0.95 MILES TO THE MARK ON THE RIGHT, EAST 31 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH OF THE CENTERLINE OF AN ASPHALT APRON 7 FEET. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 580031" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	580031A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580031A	Date Monumented 1/20/2016	Monumented By AHTD	County POPE	Route 7	Job Number: 080506,CROOKED CREEK
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	122,440.5299	0.0020			
Easting (M)	296,983.4964	0.0020			
Elevation (M)*					
Northing (SFT)	401,706.9718				
Easting (SFT)	974,353.3544				
Elevation (SFT)*					

Convergence Angle	0	39	36.7166090
Scale Factor	0.999939464		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	92	18.00	59.1
MK # 2	RCP	170	24.00	78.7
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM B 326.
Ref Mon # 2 ARHR	
Ref Mon # 3 ARLR, P777	

AZ Mark Station	580031
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580032	Date Monumented 1/20/2016	Monumented By AHTD	County POPE	Route 105	Job Number: ALEWINE CREEK,080529
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	104,288.2104	0.0020			
Easting (M)	314,910.6308	0.0010			
Elevation (M)*					
Northing (SFT)	342,152.2370				
Easting (SFT)	1,033,169.2945				
Elevation (SFT)*					

Convergence Angle	0	32	39.1655330
Scale Factor	0.999950915		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	SOUTH END OF CMP	72	14.00	45.9	580032A
MK # 2	COMBINATION POLE W/GUY	85	48.00	157.5	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM J 293.
Ref Mon # 2 ARHR	
Ref Mon # 3 ARLR, P777	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580032A	Date Monumented 1/20/2016	Monumented By AHTD	County POPE	Route 105	Job Number: ALEWINE CREEK,080529
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	104,789.5188	0.0020			
Easting (M)	314,840.8937	0.0010			
Elevation (M)*					
Northing (SFT)	343,796.9463				
Easting (SFT)	1,032,940.4987				
Elevation (SFT)*					

Convergence Angle	0	32	40.8808462
Scale Factor	0.999950488		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	202	28.00	91.9
MK # 2	GAS METER	202	66.00	216.5
MK # 3	NORTH END GATE	260	29.50	96.8

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 ARHR Ref Mon # 3 ARLR, P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM J 293.</td> </tr> </table>	Comments	GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM J 293.
Comments			
GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM J 293.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	35 16 27.2410104
Longitude	92 56 9.7951272
Ellipsoid Height (M):	96.235 0.0040
Geoid Height (M):	-28.802 0.0040

Location Description
THE STATION MARK IS LOCATED WEST OF THE JUNCTION OF STATE HIGHWAY 105 AND STATE HIGHWAY 247N, 14 MILES SOUTH OF HECTOR, THE MARK IS WEST OF THE CENTERLINE OF HIGHWAY 105 29 FEET AND IN LINE WITH THE CENTERLINE OF HIGHWAY 247 HEADING EAST AND NORTH 14.5 FEET OF THE CENTERLINE OF AN ASPHALT APRON. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 580032A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580033	Date Monumented 1/20/2016	Monumented By AHTD	County POPE	Route 105	Job Number: HECTOR CREEK,080529
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	119,952.5215 0.0020
Easting (M)	312,679.4014 0.0010
Elevation (M)*	189.306 0.0029
Northing (SFT)	393,544.2310
Easting (SFT)	1,025,849.0028
Elevation (SFT)*	621.083

Convergence Angle	0 33 34.0575216
Scale Factor	0.999940497
Elevation Adjust. Factor	0.9999702925
Combined Adjust. Factor	0.9999107913

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF A CMP	177	25.00	82.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM H 66 BY S5112 IN JANUARY 2016 FOR HECTOR CREEK PROJECT. *****GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM J 293.
Ref Mon # 2 ARHR	
Ref Mon # 3 ARLR, P777	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	35 24 38.5780068
Longitude	92 57 41.1798240
Ellipsoid Height (M):	160.614 0.0040
Geoid Height (M):	-28.682 0.0040

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 105 AND STATE HIGHWAY 124E, SOUTH OF HECTOR, GO NORTH ON HIGHWAY 105 0.5 MILES TO THE MARK ON THE LEFT, WEST 32 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 132.5 FEET OF THE CENTERLINE OF A DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 580033" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580033A	Date Monumented 1/20/2016	Monumented By AHTD	County POPE	Route 105	Job Number: HECTOR CREEK,080529
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	120,257.2027	0.0020			
Easting (M)	312,346.6104	0.0020			
Elevation (M)*	191.962	0.0030			
Northing (SFT)	394,543.8392				
Easting (SFT)	1,024,757.1710				
Elevation (SFT)*	629.794				

Convergence Angle	0	33	41.8017669
Scale Factor	0.999940356		
Elevation Adjust. Factor	0.9999698759		
Combined Adjust. Factor	0.9999102337		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	91	18.00	59.1
MK # 2	WATER METER	261	31.00	101.7
MK # 3	NORTHEAST CORNER CHICKEN HOUSE	267	127.00	416.7

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 ARHR Ref Mon # 3 ARLR, P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM H 66 BY S5112 IN JANUARY 2016 FOR HECTOR CREEK PROJECT. *****GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM J 293. </td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM H 66 BY S5112 IN JANUARY 2016 FOR HECTOR CREEK PROJECT. *****GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM J 293.
Comments			
ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM H 66 BY S5112 IN JANUARY 2016 FOR HECTOR CREEK PROJECT. *****GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM J 293.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 105 AND STATE HIGHWAY 124E, SOUTH OF HECTOR, GO NORTH ON HIGHWAY 105 0.65 MILES TO ROCK SPRINGS LOOP, TURN LEFT HERE (WEST) AND GO 0.2 MILES TO THE MARK ON THE LEFT, SOUTH 41 FEET OF THE CENTERLINE OF THE GRAVEL ROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 580033A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	580033
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580034	Date Monumented 8/11/2016	Monumented By AHTD	County POPE	Route 331	Job Number: 080500
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	102,453.2395 0.0020
Easting (M)	304,380.9508 0.0020
Elevation (M)*	114.429
Northing (SFT)	336,132.0033
Easting (SFT)	998,623.1694
Elevation (SFT)*	375.422

Convergence Angle	0 36 41.1410417
Scale Factor	0.999952626
Elevation Adjust. Factor	0.9999820427
Combined Adjust. Factor	0.9999346696

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:				None	
Elevation Datum:					
Geoid Datum:				Geoid 12A	
Latitude		35	15	8.0082648	
Longitude		93	3	2.6848944	
Ellipsoid Height (M):		85.410		0.0030	
Geoid Height (M):		-29.015		0.0030	

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 331 AND STATE HIGHWAY 247, IN POTTSVILLE, GO NORTH ON HIGHWAY 331 0.15 MILES TO THE STATION ON THE RIGHT, 13.7 FEET NORTH NORTHEAST OF THE CENTER LINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 580034" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE W/TRANSFORMER	305	63.00	206.7	AZ Mark Station 580034A
MK # 2	NORTHWEST END OF GATE	111	69.50	228.0	Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 ARHR Ref Mon # 3 ARLR, P777	<p>ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM U 293 BY S5112 IN AUG. 2016 FOR JOB # 080500.</p> <p>*****NOTE*****CONSTR</p> <p>AINED ORTHO. HTS. ON CORS ARFY, ARHR, & ARLR IN FINAL STATIC NETWORK ADJ. TO VERIFY U 293 & CHECKED FLAT</p> <p>*****</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580034A	Date Monumented 8/11/2016	Monumented By AHTD	County POPE	Route 331	Job Number: 080500,080686
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	102,734.8263	0.0020			
Easting (M)	303,992.0968	0.0020			
Elevation (M)*	117.180				
Northing (SFT)	337,055.8426				
Easting (SFT)	997,347.4043				
Elevation (SFT)*	384.448				

Convergence Angle	0	36	50.1611935		
Scale Factor	0.999952376				
Elevation Adjust. Factor	0.9999816110				
Combined Adjust. Factor	0.9999339879				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 331 AND STATE HIGHWAY 247, IN POTTSVILLE, GO NORTH ON HIGHWAY 331 0.45 MILES TO THE STATION ON THE RIGHT, 23.7 FEET NORTH OF THE CENTER LINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 580034A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	GAS METER		100	76.50	251.0
MK # 2	FIRE HYDRANT		203	69.40	227.7
MK # 3	LIGHT POLE		285	93.00	305.1

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARFY	<p>ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM U 293 BY S5112 IN AUG. 2016 FOR JOB # 080500.</p> <p>*****NOTE*****CONSTR</p> <p>AINED ORTHO. HTS. ON CORS ARFY, ARHR, & ARLR IN FINAL STATIC NETWORK ADJ. TO VERIFY U 293 & CHECKED FLAT</p> <p>*****</p>
Ref Mon # 2	ARHR	
Ref Mon # 3	ARLR, P777	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580035	Date Monumented 12/27/2016	Monumented By AHTD	County POPE	Route SR-105	Job Number: ISABELL CREEK, 080529
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	114,000.6834	0.0020
Easting (M)	312,839.1875	0.0020
Elevation (M)*		

Northing (SFT)	374,017.2421	
Easting (SFT)	1,026,373.2343	
Elevation (SFT)*		

Convergence Angle	0	33	29.0352005
Scale Factor	0.999943751		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

FROM JCT OF SR-105 & SR-164 N OF ATKINS, GO N ON SR-105 0.1 MI TO STA ON R, JUST BEFORE THE CHURCH. 24' E OF OF SR-105 C/L. 23' S OF DRIVEWAY CTR. STA IS A 2 1/2" ALUM CAP STAMPED "580035 2016" SET BELLOW SURFACE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CTR OF RC BOX CU	194	27.00	88.6
MK # 2	COMBINATION POLE	55	18.00	59.1
MK # 3	FIRE HYDRANT	150	48.00	157.5

AZ Mark Station	580035A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	GPS DERIVED ELEV. IS BASED ON CONSTRAINING ORHTOMETRIC HTS. ON AHTD CORS ARFY, ARHR, & ARLR AND ON 1ST ORDER NGS BM J 293 IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARHR	
Ref Mon # 3 ARLR, P777	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580035A	Date Monumented 12/27/2016	Monumented By AHTD	County POPE	Route SR-105	Job Number: ISABELL CREEK, 080529
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	114,474.6337	0.0020			
Easting (M)	312,829.1777	0.0020			
Elevation (M)*					

Northing (SFT)	375,572.1941				
Easting (SFT)	1,026,340.3938				
Elevation (SFT)*					

Convergence Angle	0	33	29.3723289		
Scale Factor	0.999943460				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
FROM JCT OF SR-105 & SR-164 N OF ATKINS, GO N ON SR-105 0.4 MI TO STA ON R, PAST THE ISABELL CREEK BR. 29' E OF OF SR-105 C/L. 30' N OF DRIVEWAY CTR. STA IS A 2 1/2" ALUM CAP STAMPED "580035A 2016" SET BELLOW SURFACE.					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	N END OF CMP		110	18.00	59.1
MK # 2	CTR OF E HEADWALL		165	83.00	272.3
MK # 3	CPOLE W/GUY		144	94.00	308.4

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARFY	GPS DERIVED ELEV. IS BASED ON CONSTRAINING ORHTOMETRIC HTS. ON AHTD CORS ARFY, ARHR, & ARLR AND ON 1ST ORDER NGS BM J 293 IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2	ARHR	
Ref Mon # 3	ARLR, P777	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580036	Date Monumented 10/1/2019	Monumented By ARDOT	County POPE	Route 124	Job Number: 080616
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	121,348.4366 0.0020
Easting (M)	319,895.4567 0.0020
Elevation (M)*	
Northing (SFT)	398,123.9957
Easting (SFT)	1,049,523.6775
Elevation (SFT)*	

Convergence Angle	0 30 47.9162992
Scale Factor	0.999939830
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	WATER METER	79	9.69 31.8
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARHR Ref Mon # 3 ARR V	

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid12B

Latitude 35 25 26.0648580

Longitude 92 52 55.6643208

Ellipsoid Height (M): 131.572 0.0090

Geoid Height (M): -28.583 0.0090

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 105, SOUTH OF HECTOR, GO EAST ON HIGHWAY 124 FOR 5.0 MILES TO THE MARK ON THE LEFT, NORTH 31' OF THE C/L OF THE HIGHWAY AND WEST 54.2' OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 580036" ON TOP OF A 2' REBAR DRIVEN BELOW THEW SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580036A	Date Monumented 10/1/2019	Monumented By ARDOT	County POPE	Route 124	Job Number: 080616
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	121,321.6502 0.0020
Easting (M)	320,420.2274 0.0020
Elevation (M)*	

Northing (SFT)	398,036.1140	
Easting (SFT)	1,051,245.3627	
Elevation (SFT)*		

Convergence Angle	0	30	35.8056074
Scale Factor	0.999939840		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 105, SOUTH OF HECTOR, GO EAST ON HIGHWAY 124 FOR 5.3 MILES TO THE MARK ON THE RIGHT, SOUTH 20.6' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 580036A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	267	16.97	55.7
MK # 2	CENTER OF HEADWALL	82	5.12	16.8
MK # 3	COMBINATION POLE W/3 GUYS	132	8.84	29.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARHR Ref Mon # 3 ARRV	<div style="border: 1px solid black; padding: 10px; min-height: 100px;"> Comments </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580037	Date Monumented 3/4/2020	Monumented By ARDOT	County POPE	Route 27	Job Number: 080621
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	120,220.9766	0.0030	
Easting (M)	300,751.1413	0.0030	
Elevation (M)*			
Northing (SFT)	394,424.9874		
Easting (SFT)	986,714.3694		
Elevation (SFT)*			

Convergence Angle	0	38	9.2314057
Scale Factor	0.999940429		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/LIGHT & TRANSFO	159	6.10	20.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	
Ref Mon # 2 ARFY	
Ref Mon # 3 ARHR, ARRV	

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	Geoid 18
Latitude	35 24 43.2511776
Longitude	93 5 34.0691460
Ellipsoid Height (M):	120.780 0.0110
Geoid Height (M):	-28.902 0.0110

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 27 AND STATE HIGHWAY 164S, EAST OF DOVER, GO NORTH ON HIGHWAY 27 1.5 MILES TO THE MARK ON THE RIGHT, ESE OF THE C/L OF HIGHWAY 27 23' AND 55.7' NE OF THE C/L LANDERS LOOP. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 580037" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580037A	Date Monumented 3/4/2020	Monumented By ARDOT	County POPE	Route 27	Job Number: 080621
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	120,565.0798	0.0030			
Easting (M)	301,007.9460	0.0020			
Elevation (M)*					
Northing (SFT)	395,553.9326				
Easting (SFT)	987,556.9028				
Elevation (SFT)*					

Convergence Angle	0	38	3.3964031		
Scale Factor	0.999940268				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 27 AND STATE HIGHWAY 164S, EAST OF DOVER, GO NORTH ON HIGHWAY 27 7.5 MILES TO THE MARK ON THE LEFT, NW OF THE C/L OF HIGHWAY 27 24.5' . THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 580037A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	FENCE CORNER	238		12.62	41.4
MK # 2	WATER LINE SIGN	19		15.97	52.4
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARBT</p> <p>Ref Mon # 2 ARFY</p> <p>Ref Mon # 3 ARHR, ARRV</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580038	Date Monumented 3/4/2020	Monumented By ARDOT	County POPE	Route 27	Job Number: 080621
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	124,207.5277	0.0030	
Easting (M)	304,985.5733	0.0020	
Elevation (M)*			
Northing (SFT)	407,504.1971		
Easting (SFT)	1,000,606.8351		
Elevation (SFT)*			

Convergence Angle	0	36	32.5467326
Scale Factor	0.999938733		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	COMBINATION POLE W/GUY	22	9.63	31.6	580038A
MK # 2	SOUTH HDWL	229	18.59	61.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARFY Ref Mon # 3 ARHR, ARRV	

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	Geoid 18
Latitude	35 26 54.0977208
Longitude	93 2 47.9154804
Ellipsoid Height (M):	122.804 0.0100
Geoid Height (M):	-28.780 0.0100

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 27 AND STATE HIGHWAY 164N, IN SCOTTSVILLE, GO SOUTH ON CLOUD MTN RD. 71.7' TO THE MARK ON THE RIGHT, SOUTH OF THE C/L OF HIGHWAY 27 71.7' AND WEST OF THE C/L OF CLOUD MNT RD 30.9'.. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 580038" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 580038A	Date Monumented 3/4/2020	Monumented By ARDOT	County POPE	Route 27	Job Number: 080621
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	124,558.4353 0.0020
Easting (M)	305,013.9614 0.0020
Elevation (M)*	
Northing (SFT)	408,655.4665
Easting (SFT)	1,000,699.9717
Elevation (SFT)*	

Convergence Angle	0 36 31.9777476
Scale Factor	0.999938604
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	283	8.47	27.8
MK # 2	CENTER OF GATE	309	15.70	51.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	
Ref Mon # 2 ARFY	
Ref Mon # 3 ARHR, ARRV	

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	Geoid 18
Latitude	35 27 5.4936036
Longitude	93 2 46.9376736
Ellipsoid Height (M):	113.210 0.0090
Geoid Height (M):	-28.775 0.0090

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 27 AND STATE HIGHWAY 164N, IN SCOTTSVILLE, GO NORTH ON HIGHWAY 164 0.15 MILES TO THE MARK ON THE LEFT, WEST OF THE C/L OF HIGHWAY 164 31' AND SOUTH OF THE C/L OF A FIELD ROAD 15'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 580038A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590001	Date Monumented 5/6/1997	Monumented By AHTD	County PRAIRIE	Route 165	Job Number: 001701
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	607,529.4218	
Easting (M)	433,150.1360	
Elevation (M)*	61.097	
Northing (SFT)	1,993,202.7780	
Easting (SFT)	1,421,093.4045	
Elevation (SFT)*	200.449	

Convergence Angle	0	12	7.6405377
Scale Factor	0.999956877		
Elevation Adjust. Factor	0.9999904120		
Combined Adjust. Factor	0.9999472894		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	176	1.05	3.4	
MK # 2	IRRIGATION RISER	198	3.70	12.1	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMYPORT AZ MK	Elevation based on 3-wire from NGS Point N 113 (66.231 meters)
Ref Mon # 2 ARLR	
Ref Mon # 3 590007, 590007A	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 32 13.9909236
Longitude	91 38 19.9238064
Ellipsoid Height (M):	34.650
Geoid Height (M):	-26.447

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 165 AND STATE HIGHWAY 11, LOCATED ABOUT 3.22 (2.00 MI) NORTH OF STUTTGART, GO EAST ON U.S. HIGHWAY 165 FOR 3.54 KM (2.20 MI) TO THE ARKANSAS-PRAIRIE COUNTY LINE, CONTINUE EAST ON U.S. HIGHWAY 165 FOR 4.10 KM (2.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 18.80 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 165 AND 0.84 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590001 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	590009
Geodetic Azimuth	89 05 14
Grid Azimuth	88 53 07

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590002	Date Monumented 5/6/1997	Monumented By AHTD	County PRAIRIE	Route 165	Job Number: 001701
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	607,594.1939	
Easting (M)	436,942.3240	
Elevation (M)*	59.584	
Northing (SFT)	1,993,415.2845	
Easting (SFT)	1,433,534.9413	
Elevation (SFT)*	195.485	

Convergence Angle	0	13	30.8832734
Scale Factor	0.999956947		
Elevation Adjust. Factor	0.9999906494		
Combined Adjust. Factor	0.9999475968		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF 0.70 METER RCP	98	18.71	61.4
MK # 2	WEST END OF 0.70 METER RCP	159	36.81	120.8
MK # 3	POWER POLE	197	40.98	134.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMYPORT AZ	Elevation based on 3-wire from NGS Point N 113 (66.231 meters)
Ref Mon # 2 ARLR	
Ref Mon # 3 590007, 590007A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590003	Date Monumented 1/5/2001	Monumented By AHTD	County PRAIRIE	Route 63	Job Number: 060986
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	34,111.8570	
Easting (M)	440,814.9179	
Elevation (M)*	66.348	
Northing (SFT)	111,915.3175	
Easting (SFT)	1,446,240.2765	
Elevation (SFT)*	217.677	

Convergence Angle	0	15	32.4722621
Scale Factor	1.000070609		
Elevation Adjust. Factor	0.9999895879		
Combined Adjust. Factor	1.0000601962		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	345	39.30	128.9
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 BRINKLEYPORT Ref Mon # 2 PAGIS 1001 Ref Mon # 3 ALMYPORT AZ MK	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation by 3-wire from NGS Point C 114</td> </tr> </table>	Comments	Elevation by 3-wire from NGS Point C 114
Comments			
Elevation by 3-wire from NGS Point C 114			

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRIE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 MI) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 7.89 KM (4.90 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.60 METERS WEST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590003 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM TBM 937. THE SHOT DISTANCE IS 772.287 METERS.			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	38	23.8912872
Longitude	91	33	17.5362444
Ellipsoid Height (M):	39.715		
Geoid Height (M):	-26.633		

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590004	Date Monumented 1/5/2001	Monumented By AHTD	County PRAIRIE	Route 63	Job Number: 060986
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	39,375.5931	
Easting (M)	440,815.3669	
Elevation (M)*	64.585	
Northing (SFT)	129,184.7584	
Easting (SFT)	1,446,241.7496	
Elevation (SFT)*	211.893	

Convergence Angle	0	15	33.0264910
Scale Factor	1.000057439		
Elevation Adjust. Factor	0.9999898646		
Combined Adjust. Factor	1.0000473030		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	342	9.20	30.2
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	Elevation by 3-wire from NGS Point C 114
Ref Mon # 2 PAGIS 1001	
Ref Mon # 3 ALMYPORT AZ MK	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590004A	Date Monumented 1/5/2001	Monumented By AHTD	County PRAIRIE	Route 63	Job Number: 060986
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	38,674.9593	
Easting (M)	440,799.6664	
Elevation (M)*	64.588	
Northing (SFT)	126,886.0956	
Easting (SFT)	1,446,190.2388	
Elevation (SFT)*	211.902	

Convergence Angle	0	15	32.5951725
Scale Factor	1.000059153		
Elevation Adjust. Factor	0.9999898641		
Combined Adjust. Factor	1.0000490165		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRIE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 MI) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 12.63 KM (7.85 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.40 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63, 8.70 METERS NORTH OF A FIELD ENTRANCE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590004A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM TBM 948. THE SHOT DISTANCE IS 700.772 METERS.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF A CONCRETE HEADWALL	332	26.45	86.8
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	<p>Elevation by 3-wire from NGS Point C 114</p>
Ref Mon # 2 PAGIS 1001	
Ref Mon # 3 ALMYPORT AZ MK	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590005	Date Monumented 1/5/2001	Monumented By AHTD	County PRAIRIE	Route 63	Job Number: 060986
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	43,132.2727	
Easting (M)	440,944.2038	
Elevation (M)*	67.104	
Northing (SFT)	141,509.7980	
Easting (SFT)	1,446,664.4420	
Elevation (SFT)*	220.157	

Convergence Angle	0	15	36.3614650
Scale Factor	1.000048454		
Elevation Adjust. Factor	0.9999894693		
Combined Adjust. Factor	1.0000379228		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER VALVE	70	3.98	13.1
MK # 2	TELEPHONE JUNCTION BOX	253	1.85	6.1
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 BRINKLEYPORT Ref Mon # 2 PAGIS 1001 Ref Mon # 3 ALMYPORT AZ MK	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation by 3-wire from NGS Point C 114</td> </tr> </table>	Comments	Elevation by 3-wire from NGS Point C 114
Comments			
Elevation by 3-wire from NGS Point C 114			

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 34 43 16.5780300

Longitude 91 33 10.8526068

Ellipsoid Height (M): 40.354

Geoid Height (M): -26.751

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 M) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 17.06 KM (10.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.30 METERS NORTH OF A FIELD ENTRANCE, 14.21 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590005 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM TBM 959. THE SHOT DISTANCE IS 550.717 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590005A	Date Monumented 1/5/2001	Monumented By AHTD	County PRAIRIE	Route 63	Job Number: 060986
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	43,682.0700	
Easting (M)	440,976.4701	
Elevation (M)*	66.090	
Northing (SFT)	143,313.5913	
Easting (SFT)	1,446,770.3023	
Elevation (SFT)*	216.830	

Convergence Angle	0	15	37.1564870
Scale Factor	1.000047167		
Elevation Adjust. Factor	0.9999896284		
Combined Adjust. Factor	1.0000367949		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Elevation by 3-wire from NGS Point C 114
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590006	Date Monumented 1/5/2001	Monumented By AHTD	County PRAIRIE	Route 63	Job Number: 061083
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 49,446.2224		Latitude 34 46 41.4281208
Easting (M) 441,175.8266		Longitude 91 33 0.6160932
Elevation (M)* 70.108		Ellipsoid Height (M): 43.277
		Geoid Height (M): -26.831

Northing (SFT) 162,224.8147		
Easting (SFT) 1,447,424.3578		
Elevation (SFT)* 230.013		

Convergence Angle 0 15 42.3180833		
Scale Factor 1.000034127		
Elevation Adjust. Factor 0.9999889979		
Combined Adjust. Factor 1.0000231245		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 M) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 23.34 KM (14.50 MI) TO A "Y" JUNCTION AND THE STATION STRAIGHT AHEAD. THE STATION IS 15.60 METERS WEST OF THE CENTER OF THE HIGHWAY, 13.00 METERS EAST OF THE CENTER OF THE HIGHWAY AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDAD 64mm CAP STAMPED "590006 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM TBM 973=BENCH MARK K 109. THE SHOT DISTANCE IS 660.417 METERS.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 BRINKLEYPORT</p> <p>Ref Mon # 2 PAGIS 1001</p> <p>Ref Mon # 3 ALMYPORT AZ MK</p>	<p style="text-align: center;">Comments</p> <p>Elevation by 3-wire from NGS Point K 109</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590006A	Date Monumented 1/5/2001	Monumented By AHTD	County PRAIRIE	Route 63	Job Number: 061083
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	48,786.3160	
Easting (M)	441,149.1882	
Elevation (M)*	69.553	
Northing (SFT)	160,059.7717	
Easting (SFT)	1,447,336.9616	
Elevation (SFT)*	228.192	

Convergence Angle	0	15	41.6395238
Scale Factor	1.000035579		
Elevation Adjust. Factor	0.9999890850		
Combined Adjust. Factor	1.0000246636		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 M) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 22.69 KM (14.10 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.25 METERS WEST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590006A 20001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM TBM 972. THE SHOT DISTANCE IS 660.417 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 BRINKLEYPORT</p> <p>Ref Mon # 2 PAGIS 1001</p> <p>Ref Mon # 3 ALMYPORT AZ MK</p>	<p style="text-align: center;">Comments</p> <p>Elevation by 3-wire from NGS Point C 114</p>
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AZ Mark Station	590006
Geodetic Azimuth	2 34 23.397932
Grid Azimuth	2 18 41.751673

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590007	Date Monumented 1/5/2001	Monumented By AHTD	County PRAIRIE	Route 63	Job Number: 060986, 020325
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	28,615.4988	
Easting (M)	440,700.0013	
Elevation (M)*	67.280	
Northing (SFT)	93,882.6823	
Easting (SFT)	1,445,863.2543	
Elevation (SFT)*	220.734	

Convergence Angle	0	15	29.2811385
Scale Factor	1.000085080		
Elevation Adjust. Factor	0.9999894417		
Combined Adjust. Factor	1.0000745208		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 M) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 2.57 KM (1.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.25 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63, 11.45 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590007 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM TBM 923. THE SHOT DISTANCE IS 580.046 METERS.</p>				

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	IRRIGATION PIPE RISER	20	7.00	23.0		590007A
MK # 2	COMBINATION POLE	190	7.50	24.6		1 40 01.327287
MK # 3	NONE					1 24 32.041457

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	<p>Elevation by 3-wire from NGS Point X 113</p>
Ref Mon # 2 PAGIS 1001	
Ref Mon # 3 ALMYPORT AZ MK	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590007A	Date Monumented 1/5/2001	Monumented By AHTD	County PRAIRIE	Route 63	Job Number: 060986, 020325
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	29,195.4187	
Easting (M)	440,714.2644	
Elevation (M)*	66.602	
Northing (SFT)	95,785.3029	
Easting (SFT)	1,445,910.0491	
Elevation (SFT)*	218.510	

Convergence Angle	0	15	29.6664753
Scale Factor	1.000083519		
Elevation Adjust. Factor	0.9999895481		
Combined Adjust. Factor	1.0000730662		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	0	33.40	109.6
MK # 2	TELEPHONE MAN HOLE COVER	269	30.30	99.4
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 BRINKLEYPORT Ref Mon # 2 PAGIS 1001 Ref Mon # 3 ALMYPORT AZ MK	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation by 3-wire from NGS Point Y 113</td> </tr> </table>	Comments	Elevation by 3-wire from NGS Point Y 113
Comments			
Elevation by 3-wire from NGS Point Y 113			

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 M) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 3.14 KM (1.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.40 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.28 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590007A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM TBM 925. THE SHOT DISTANCE IS 580.046 METERS.			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	35	44.3724396
Longitude	91	33	22.3580196
Ellipsoid Height (M):	40.032		
Geoid Height (M):	-26.570		

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590008	Date Monumented 12/30/2002	Monumented By AHTD	County PRAIRIE	Route 249	Job Number: 061083
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	50,870.4089	
Easting (M)	437,683.2890	
Elevation (M)*		
Northing (SFT)	166,897.3332	
Easting (SFT)	1,435,965.9240	
Elevation (SFT)*		

Convergence Angle	0	14	22.5278379
Scale Factor	1.000030996		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	355	22.50	73.8	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 480016	
Ref Mon # 2 AHTD MON1	
Ref Mon # 3 AHTD LROC	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 47 28.1382252
Longitude	91 35 17.7365004
Ellipsoid Height (M):	
Geoid Height (M):	-26.846

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 249 LOCATED ON THE WEST SIDE OF HAZEN, GO NORTH ON STATE HIGHWAY 249 FOR 0.75 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.25 METERS WEST OF THE CENTER OF STATE HIGHWAY 249 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "590008 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	590008A
Geodetic Azimuth	182 04 34
Grid Azimuth	181 50 11

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590008A	Date Monumented 12/30/2002	Monumented By AHTD	County PRAIRIE	Route 249	Job Number: 061083
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	50,121.0059	
Easting (M)	437,659.2610	
Elevation (M)*		
Northing (SFT)	164,438.6669	
Easting (SFT)	1,435,887.0921	
Elevation (SFT)*		

Convergence Angle	0	14	21.9061951
Scale Factor	1.000032619		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	90	22.50	73.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 480016	
Ref Mon # 2 AHTD MON1	
Ref Mon # 3 AHTD LROC	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 47 3.8236380
Longitude	91 35 18.8048004
Ellipsoid Height (M):	
Geoid Height (M):	-26.836

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 249 LOCATED ON THE WEST SIDE OF HAZEN, GO NORTH ON STATE HIGHWAY 249 FOR 0.27 MILES TO THE STATION ON THE LEFT. THE STATION IS 9.10 METERS WEST OF THE CENTER OF STATE HIGHWAY 249 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "590008A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590009	Date Monumented 1/24/2008	Monumented By AHTD	County PRAIRIE	Route 165	Job Number: 001701
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	607,538.5209	
Easting (M)	433,617.7330	
Elevation (M)*		
Northing (SFT)	1,993,232.6307	
Easting (SFT)	1,422,627.5124	
Elevation (SFT)*		

Convergence Angle	0	12	17.9048490
Scale Factor	0.999956887		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	253	10.67	35.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ALMYPORT AZ MK
Ref Mon # 2	ARLR
Ref Mon # 3	590007, 59007A

Comments

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 34 32 14.2323072

Longitude 91 38 1.5845496

Ellipsoid Height (M): 34.728

Geoid Height (M): -26.451

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND THE ARKANSAS PRAIRIE COUNTY LINE, NORTHWEST OF STUTTGARTH, GO WEST ON HIGHWAY 165 FOR 2.10 MILES TO THE STATION MARK ON THE LEFT, SOUTH 87.0 FEET OF THE CENTER OF THE HIGHWAY AND NORTH 1.49 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590009 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590010	Date Monumented 1/24/2008	Monumented By AHTD	County PRAIRIE	Route NA	Job Number: 001701
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	607,155.7709	
Easting (M)	437,134.0850	
Elevation (M)*		
Northing (SFT)	1,991,976.8917	
Easting (SFT)	1,434,164.0772	
Elevation (SFT)*		

Convergence Angle	0	13	35.0543543
Scale Factor	0.999956343		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	48	25.30	83.0	
MK # 2	TELEPHONE PEDASTAL	81	1.46	4.8	
MK # 3					

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ALMYPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>590007, 590007A</td> </tr> </table>	Ref Mon # 1	ALMYPORT	Ref Mon # 2	ARLR	Ref Mon # 3	590007, 590007A	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ALMYPORT						
Ref Mon # 2	ARLR						
Ref Mon # 3	590007, 590007A						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 32 1.3811496
Longitude	91 35 43.7414388
Ellipsoid Height (M):	32.713
Geoid Height (M):	-26.467

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND THE ARKANSAS PRAIRIE COUNTY LINE, NORTHWEST OF STUTTGARTH, AT THE JUNCTION OF THE HIGHWAY AND THE COUNTY LINE TURN SOUTH ON A GRAVEL ROAD (WESINGER RD.) AND GO 0.20 MILES TO THE MARK ON THE RIGHT, WEST 34.3 FEET OF THE CENTER OF THE ROAD AND WEST 1.49 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590010 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	590002
Geodetic Azimuth	336 36 09
Grid Azimuth	336 22 34

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590011	Date Monumented 4/12/2011	Monumented By AHTD	County PRAIRIE	Route I 40	Job Number: 001726
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	638,776.0871	
Easting (M)	439,628.7520	
Elevation (M)*	71.140	
Northing (SFT)	2,095,717.8791	
Easting (SFT)	1,442,348.6639	
Elevation (SFT)*	233.400	

Convergence Angle	0	14	32.7456235
Scale Factor	1.000012015		
Elevation Adjust. Factor	0.9999888359		
Combined Adjust. Factor	1.0000008508		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF BRIDGE	336	9.14	30.0
MK # 2	1'X2' DROP INLET	130	3.60	11.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARLR Ref Mon # 3 MSB6	ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM J 1378, S 109 AND CHECKED BY GPS USING D 31.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590011A	Date Monumented 4/12/2011	Monumented By AHTD	County PRAIRIE	Route 63	Job Number: 001726
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	638,124.6001	
Easting (M)	439,623.4170	
Elevation (M)*	67.503	
Northing (SFT)	2,093,580.4588	
Easting (SFT)	1,442,331.1606	
Elevation (SFT)*	221.465	

Convergence Angle	0	14	32.5674370
Scale Factor	1.000010617		
Elevation Adjust. Factor	0.9999894068		
Combined Adjust. Factor	1.0000000237		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 63/11, NORTH OF HAZEN, GO SOUTH ON HIGHWAY 11/63 FOR 0.4 MILES TO THE MARK ON THE RIGHT, WEST 35.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND EAST 2.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590011A 2011" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARLR Ref Mon # 3 MSB6	Comments ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM J 1378, S 109 AND CHECKED BY GPS USING D 31.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590012	Date Monumented 4/12/2011	Monumented By AHTD	County PRAIRIE	Route I 40	Job Number: 001726
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	639,171.0890	
Easting (M)	444,691.0950	
Elevation (M)*	66.011	
Northing (SFT)	2,097,013.8145	
Easting (SFT)	1,458,957.3675	
Elevation (SFT)*	216.572	

Convergence Angle	0	16	24.2737263
Scale Factor	1.000012819		
Elevation Adjust. Factor	0.9999896408		
Combined Adjust. Factor	1.0000024597		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND THE WHITE RIVER, NORTHWEST OF BISCOE, GO WEST ON I 40 3.35 MILES TO THE MARK ON THE RIGHT, NORTH 8 FEET FROM THE ASPHALT SHOULDER AND SOUTH 40 FEET FROM A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590012 2011" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARBT</p> <p>Ref Mon # 2 ARLR</p> <p>Ref Mon # 3 MSB6</p>	<p style="text-align: center;">Comments</p> <p>ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM J 1378, S 109 AND CHECKED BY GPS USING D 31.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590012A	Date Monumented 4/12/2011	Monumented By AHTD	County PRAIRIE	Route I 40	Job Number: 001726
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	638,848.7970	
Easting (M)	443,873.1830	
Elevation (M)*	66.928	
Northing (SFT)	2,095,956.4282	
Easting (SFT)	1,456,273.9346	
Elevation (SFT)*	219.580	

Convergence Angle	0	16	6.2271014
Scale Factor	1.000012131		
Elevation Adjust. Factor	0.9999894969		
Combined Adjust. Factor	1.0000016278		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARLR Ref Mon # 3 MSB6	ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM J 1378, S 109 AND CHECKED BY GPS USING D 31.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590013	Date Monumented 4/12/2011	Monumented By AHTD	County PRAIRIE	Route I 40	Job Number: 001726
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	640,698.4491	
Easting (M)	448,193.3650	
Elevation (M)*	58.548	
Northing (SFT)	2,102,024.8284	
Easting (SFT)	1,470,447.7317	
Elevation (SFT)*	192.088	

Convergence Angle	0	17	41.5793007
Scale Factor	1.000016113		
Elevation Adjust. Factor	0.9999908119		
Combined Adjust. Factor	1.0000069248		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	MSB6

Comments
ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM J 1378, S 109 AND CHECKED BY GPS USING D 31.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590013A	Date Monumented 4/12/2011	Monumented By AHTD	County PRAIRIE	Route I 40	Job Number: 001726
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	640,959.8680
Easting (M)	448,518.5810
Elevation (M)*	61.595
Northing (SFT)	2,102,882.5003
Easting (SFT)	1,471,514.7112
Elevation (SFT)*	202.084

Convergence Angle	0 17 48.7727054
Scale Factor	1.000016686
Elevation Adjust. Factor	0.9999903338
Combined Adjust. Factor	1.0000070196

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NE OF NE CORNER OF CHAINLINK FENCE	261	24.63	80.8
MK # 2	LIGHT POLE		26.21	86.0
MK # 3	LIGHT POLE		28.29	92.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARBT Ref Mon # 3 MSB6	ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM J 1378, S 109 AND CHECKED BY GPS USING D 31.

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND THE WHITE RIVER, NORTHWEST OF BISCOE, GO WEST ON I 40 0.70 MILES TO THE EXIT FOR THE REST AREA, TAKE THE REST AREA EXIT AND AT THE Y GO RIGHT AND GO TO THE GRAVEL AREA NORTH OF THE REST ROOMS AND EAST OF A CHAINLINK FENCE TO THE MARK ON THE LEFT, SOUTH OF A BRICK ELECTRICAL BUILDING AND NORTH 20.6 FEET OF THE NORTHERN MOST PAVEMENT EDGE AND SOUTH 107 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590012A 2011" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590014	Date Monumented 4/12/2011	Monumented By AHTD	County PRAIRIE	Route 33	Job Number: 001726
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	641,935.3341	
Easting (M)	453,534.2210	
Elevation (M)*	64.523	
Northing (SFT)	2,106,082.8420	
Easting (SFT)	1,487,970.1901	
Elevation (SFT)*	211.690	

Convergence Angle	0	19	39.3783488
Scale Factor	1.000018790		
Elevation Adjust. Factor	0.9999898743		
Combined Adjust. Factor	1.0000086641		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
THE STATION MARK IS AT THE NORTHWEST CORNER OF THE HIGHWAY 33 BRIDGE OVER I 40, NORTH OF DEVALLS BLUFF, 20 FEET WEST OF THE CENTERLINE OF HIGHWAY 33 AND 3.7 FEET WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590014 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CATCH BASIN	358	8.53	28.0
MK # 2	NORTHWEST COR OF BLDGING	135	41.15	135.0
MK # 3				

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARBT	ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM D 31 AND CHECKED BY GPS USING J 1378 AND S 109
Ref Mon # 2	ARLR	
Ref Mon # 3	MSB6	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590014A	Date Monumented 4/12/2011	Monumented By AHTD	County PRAIRIE	Route 33	Job Number: 001726
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	642,611.4060	
Easting (M)	453,557.8300	
Elevation (M)*	53.118	
Northing (SFT)	2,108,300.9212	
Easting (SFT)	1,488,047.6473	
Elevation (SFT)*	174.272	

Convergence Angle	0	19	39.9836550
Scale Factor	1.000020303		
Elevation Adjust. Factor	0.9999916641		
Combined Adjust. Factor	1.0000119669		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	100	12.19	40.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARLR Ref Mon # 3 MSB6	ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM D 31 AND CHECKED BY GPS USING J 1378 AND S 109

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 51 9.3935952
Longitude	91 24 51.7218336
Ellipsoid Height (M):	26.217
Geoid Height (M):	-26.897

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 33, NORTH OF DEVALLS BLUFF, GO NORTH ON HIGHWAY 33 FOR 0.3 MILES TO THE MARK ON THE RIGHT, EAST 21 FEET OF THE CENTERLINE AND WEST 38.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590014A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590015	Date Monumented 	Monumented By CLS	County PRAIRIE	Route 70	Job Number: 110664
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	640,243.1615 0.0030
Easting (M)	456,904.4258 0.0030
Elevation (M)*	57.064 0.0066
Northing (SFT)	2,100,531.1057
Easting (SFT)	1,499,027.2703
Elevation (SFT)*	187.217

Convergence Angle	0 20 53.3968818
Scale Factor	1.000015007
Elevation Adjust. Factor	0.99999910449
Combined Adjust. Factor	1.0000060518

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	N OF EP HWY 70		2.07	6.8
MK # 2	SE OF PP WITH GY E SIDE OF BRASFIELD R INTERSECTION		10.94	35.9
MK # 3	S OF WITNESS POST		3.51	11.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARWY Ref Mon # 3 MSB5	Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590015A	Date Monumented 	Monumented By CLS	County PRAIRIE	Route 70	Job Number: 110664
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	640,108.0994	0.0020			
Easting (M)	456,468.4098	0.0020			
Elevation (M)*	58.600	0.0067			
Northing (SFT)	2,100,087.9894				
Easting (SFT)	1,497,596.7745				
Elevation (SFT)*	192.256				

Convergence Angle	0	20	43.7753355
Scale Factor	1.000014717		
Elevation Adjust. Factor	0.9999908039		
Combined Adjust. Factor	1.0000055207		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	S OF EP HWY 70		2.90	9.5	590015
MK # 2	N OF WITNESS POST		2.53	8.3	
MK # 3	W OF FIELD ENTRANCE		76.20	250.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARLR	Position and elevation determined by C.L.S. in April 2018 during job 110664, constraining elevation on Q170.
Ref Mon # 2: ARWY	
Ref Mon # 3: MSB5	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590016	Date Monumented 12/14/2020	Monumented By ARDOT	County PRAIRIE	Route 86	Job Number: 06X284
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	626,941.7892	0.0020			
Easting (M)	429,223.2331	0.0020			
Elevation (M)*					
Northing (SFT)	2,056,891.5201				
Easting (SFT)	1,408,209.8906				
Elevation (SFT)*					

Convergence Angle	0	10	42.7740273
Scale Factor	0.999988338		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARPB Ref Mon # 3 ARWY	

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 34 42 44.3950092

Longitude 91 40 51.5548992

Ellipsoid Height (M): 39.298 0.0100

Geoid Height (M): -26.799 0.0100

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 86, EAST OF CARLISLE, GO SOUTH ON STATE HIGHWAY 86E 4.85 MILES TO THE MARK ON THE LEFT, EAST 42.2' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "590016 2020" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590016A	Date Monumented 12/14/2020	Monumented By ARDOT	County PRAIRIE	Route 86	Job Number: 06X284
---------------------------	--------------------------------------	-------------------------------	--------------------------	--------------------	------------------------------

Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	627,423.0500 0.0020
Easting (M)	429,231.7572 0.0020
Elevation (M)*	

Northing (SFT)	2,058,470.4565	
Easting (SFT)	1,408,237.8567	
Elevation (SFT)*		

Convergence Angle	0	10	42.9945143
Scale Factor	0.999989236		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 86, EAST OF CARLISLE, GO SOUTH ON STATE HIGHWAY 86E 4.55 MILES TO THE MARK ON THE LEFT, EAST 39' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "590016A 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description	Azimuth	Distance	
		Meters Feet	
MK # 1			AZ Mark Station 590016
MK # 2			Geodetic Azimuth
MK # 3			Grid Azimuth

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARLR</p> <p>Ref Mon # 2 ARPB</p> <p>Ref Mon # 3 ARWY</p>	<p style="text-align: center; margin: 0;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590017	Date Monumented 12/14/2020	Monumented By ARDOT	County PRAIRIE	Route 86	Job Number: 06X281
--------------------------	--------------------------------------	-------------------------------	--------------------------	--------------------	------------------------------

Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	628,738.7840	0.0040			
Easting (M)	441,594.5968	0.0040			
Elevation (M)*					
Northing (SFT)	2,062,787.1605				
Easting (SFT)	1,448,798.2730				
Elevation (SFT)*					

Convergence Angle	0	15	15.0582978
Scale Factor	0.999991633		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 86 AND STATE HIGHWAY 63, SOUTH OF HAZEN, GO EAST ON STATE HIGHWAY 86 0.35 MILES TO THE MARK ON THE RIGHT, SOUTH 34.8' OF THE C/L OF THE HIGHWAY AND 36.7' EAST OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "590017 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	EAST END CULVERT	303	6.28	20.6	590017A
MK # 2	POWER POLE	258	4.21	13.8	
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARLR</p> <p>Ref Mon # 2 ARPB</p> <p>Ref Mon # 3 ARWY</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 590017A	Date Monumented 12/14/2020	Monumented By ARDOT	County PRAIRIE	Route 86	Job Number: 06X281
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	628,728.1651	0.0050			
Easting (M)	442,050.9556	0.0050			
Elevation (M)*					
Northing (SFT)	2,062,752.3217				
Easting (SFT)	1,450,295.5102				
Elevation (SFT)*					

Convergence Angle	0	15	25.0967584
Scale Factor	0.999991608		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	90	2.77	9.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARPB</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARWY</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	ARPB	Ref Mon # 3	ARWY	<table style="width: 100%;"> <tr> <td style="width: 100%;">Comments</td> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Ref Mon # 1	ARLR								
Ref Mon # 2	ARPB								
Ref Mon # 3	ARWY								
Comments									

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	34 43 40.7832816
Longitude	91 32 27.1285476
Ellipsoid Height (M):	39.217 0.0150
Geoid Height (M):	-26.879 0.0150

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 86 AND STATE HIGHWAY 63, SOUTH OF HAZEN, GO EAST ON STATE HIGHWAY 86 0.65 MILES TO THE MARK ON THE RIGHT, SOUTH 33' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "590017A 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600001	Date Monumented 3/28/1990	Monumented By AHTD	County PULASKI	Route 338	Job Number: OFFICE
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 37,740.6969		Geoid Datum:
Easting (M) 364,758.9490		Latitude 34 40 22.4062608
Elevation (M)* 		Longitude 92 23 4.1829216
Northing (SFT) 123,820.9364		Ellipsoid Height (M):
Easting (SFT) 1,196,713.3185		Geoid Height (M):
Elevation (SFT)* 		

Convergence Angle 0 13 25.4548351	Location Description <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Scale Factor 1.000061399	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL	
Horizontal Datum 	
Latitude 	
Longitude 	
Ellipsoid Height: 	
Grid Northing (Meters) 	
Grid Easting (Meters) 	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station
MK # 2	NONE				Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	Comments Old point number 90600001
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600002	Date Monumented 7/27/2002	Monumented By AHTD	County PULASKI	Route 338	Job Number: 60209, OFFICE
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	622,578.5109	
Easting (M)	365,032.0380	
Elevation (M)*		
Northing (SFT)	2,042,576.3312	
Easting (SFT)	1,197,609.2780	
Elevation (SFT)*		

Convergence Angle	0	12	48.7723415
Scale Factor	0.999980421		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	STOP SIGN	280	1.43	4.7	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ADAMS 2	OLD PN = 90600002
Ref Mon # 2 ROCKPORT	
Ref Mon # 3 SALIPOINT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600003	Date Monumented 7/27/2002	Monumented By AHTD	County PULASKI	Route 338	Job Number: 60209, OFFICE
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	622,403.4559	
Easting (M)	365,293.0670	
Elevation (M)*		
Northing (SFT)	2,042,002.0049	
Easting (SFT)	1,198,465.6706	
Elevation (SFT)*		

Convergence Angle	0	12	43.0194236
Scale Factor	0.999980117		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	108	4.24	13.9
MK # 2	TELEPHONE RISER	250	2.44	8.0
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ADAMS 2</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ROCKPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SALIPOINT</td> </tr> </table>	Ref Mon # 1	ADAMS 2	Ref Mon # 2	ROCKPORT	Ref Mon # 3	SALIPOINT	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>OLD PN = 90600003</td> </tr> </table>	Comments	OLD PN = 90600003
Ref Mon # 1	ADAMS 2								
Ref Mon # 2	ROCKPORT								
Ref Mon # 3	SALIPOINT								
Comments									
OLD PN = 90600003									

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 40 16.5115920
Longitude	92 22 43.2876900
Ellipsoid Height (M):	61.044
Geoid Height (M):	-26.386

Location Description
THE STATION IS LOCATED EAST ALONG THE NORTH FRONTAGE ROAD OF I-30 FROM THE ARKANSAS HIGHWAY DEPARTMENT MAIN BUILDING, 6.0ft. SOUTH OF THE CHAIN LINK FENCE SURROUNDING THE RADIO SHOP. 42 FEET WEST OF THE CONCRETE DRIVEWAY LEADING INTO A QUICK MART. 39 FEET NORTH OF THE CENTER OF THE FRONTAGE ROAD AND 2.8 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "90600003".

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600004	Date Monumented 3/28/1990	Monumented By AHTD	County PULASKI	Route 338	Job Number: OFFICE
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Zone	Zone Code	Vertical Determined By:
Arkansas North	301	NONE
Horizontal Datum	NAD 83 (1986)	
Geoid Datum:		
Northing (M)	37,358.6208	Latitude
Easting (M)	364,807.6290	34 40 10.0143228
Elevation (M)*		Longitude
		92 23 2.2123932
Northing (SFT)	122,567.4084	Ellipsoid Height (M):
Easting (SFT)	1,196,873.0295	Geoid Height (M):
Elevation (SFT)*		

Convergence Angle	0	13	24.3081864
Scale Factor	1.000062347		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station
MK # 2	NONE				Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 NONE Ref Mon # 2 NONE Ref Mon # 3 NONE	<div style="border: 1px solid black; padding: 5px; min-height: 100px;"> Comments Old point number 90600004 </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600007	Date Monumented 3/23/1990	Monumented By AHTD	County PULASKI	Route 5	Job Number: 6965
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Zone Arkansas South	Zone Code 302	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 626,809.3030		Geoid Datum:
Easting (M) 366,192.7580		Latitude 34 42 39.5957016
Elevation (M)* 		Longitude 92 22 8.5720404
Northing (SFT) 2,056,456.8549		Ellipsoid Height (M):
Easting (SFT) 1,201,417.4069		Geoid Height (M): -27.503
Elevation (SFT)* 		

Convergence Angle 0 12 23.5893978	Location Description THE STATION IS 15 FEET WEST OF THE CENTERLINE OF COBB STREET, 110 FEET NORTH OF THE CENTERLINE OF ASHER AVE., 3.5 FEET EAST OF THE EDGE OF A SIDEWALK AND 13 FEET NORTH OF THE 1ST DRIVE ON THE LEFT SIDE OF COBB STREET.
Scale Factor 0.999988063	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	PUNCH POINT IN CENTER OF SS MANHOLE COVER	9	24.97	81.9	NONE
MK # 2	NBC IN COMBINATION POLE	153	20.26	66.5	
MK # 3	NBC IN 10" SWEET GUM	183	24.48	80.3	

Area Reference Monuments (used for Processing) Ref Mon # 1 PAGIS 1004 Ref Mon # 2 PAGIS 1006 Ref Mon # 3 PAGIS 1007	Comments Old point number 90600007
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600009	Date Monumented 5/29/1990	Monumented By AHTD	County PULASKI	Route 365	Job Number: 60517
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 51,586.3839		Geoid Datum:
Easting (M) 374,164.7590		Latitude 34 47 52.7264340
Elevation (M)* 		Longitude 92 16 56.3071440
Northing (SFT) 169,246.3278		Ellipsoid Height (M):
Easting (SFT) 1,227,572.2135		Geoid Height (M): -27.650
Elevation (SFT)* 		

Convergence Angle 0 9 51.3882409	Location Description THE STATION IS NORTHWEST OF THE INTERSECTION OF 47TH AND DIVISION STREETS IN NORTH LITTLE ROCK BETWEEN POWER SUB STATION AND THE INTERSECTION.
Scale Factor 1.000029368	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL	
Horizontal Datum 	
Latitude 	
Longitude 	
Ellipsoid Height: 	
Grid Northing (Meters) 	
Grid Easting (Meters) 	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	285	6.37	20.9
MK # 2	NBC IN COMBINATION POLE	67	6.35	20.8
MK # 3	NBC IN COMBINATION POLE	152	5.70	18.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TIE	Old point number 90600009
Ref Mon # 2 PAGIS 1004	
Ref Mon # 3 PAGIS 1005	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600010	Date Monumented 5/29/1990	Monumented By AHTD	County PULASKI	Route 365	Job Number: 60517
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	51,685.0980	
Easting (M)	374,169.9030	
Elevation (M)*		
Northing (SFT)	169,570.1924	
Easting (SFT)	1,227,589.0901	
Elevation (SFT)*		

Convergence Angle	0	9	51.2769695
Scale Factor	1.000029157		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	47	55.9301640
Longitude	92	16	56.1159228
Ellipsoid Height (M):			
Geoid Height (M):	-27.652		

Location Description
<p>FROM JCT. OF 47TH STREET IN NORTH LITTLE ROCK, GO NORTH 330 FEET ON DIVISION STREET. THE STATION IS 40 FEET WEST OF THE CENTERLINE OF DIVISION STREET, 75 FEET NORTH AND 27 FEET EAST OF THE NORTHEAST CORNER OF THE POWER SUB STATION AND IS ACROSS THE STREET FROM THE 4TH HOUSE FROM THE JCT. OF 47TH AND DIVISION STREETS.</p>

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NBC IN COMBINATION POLE	163	16.67	54.7	90600009
MK # 2	NBC IN COMBINATION POLE	175	16.08	52.7	182 49 07
MK # 3	NONE	0	0.00	0.0	182 58 58

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TIE Ref Mon # 2 PAGIS 1004 Ref Mon # 3 PAGIS 1005	Old point number 90600010

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600011	Date Monumented 5/29/1990	Monumented By AHTD	County PULASKI	Route 107	Job Number: 60517
--------------------------	-------------------------------------	------------------------------	--------------------------	---------------------	-----------------------------

Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 51,604.1680		Geoid Datum:
Easting (M) 375,971.4870		Latitude 34 47 53.4657408
Elevation (M)* 		Longitude 92 15 45.2362644
Northing (SFT) 169,304.6745		Ellipsoid Height (M):
Easting (SFT) 1,233,499.7869		Geoid Height (M): -27.637
Elevation (SFT)* 		

Convergence Angle 0 9 10.0321580	Location Description THE STATION IS ON MC CAIN BLVD. IN NORTH LITTLE ROCK NORTH OF HIGH HILL ROAD, 18 FEET WEST OF THE CENTERLINE OF THE NORTHBOUND LANES, 17 FEET EAST OF THE CENTERLINE OF THE SOUTH BOUND LANES AND 81 FEET NORTH OF A BREAK IN THE MEDIAN ACROSS THE SOUTH LANES FROM THE FOOTBALL FIELD.
Scale Factor 1.000029320	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL	
Horizontal Datum 	
Latitude 	
Longitude 	
Ellipsoid Height: 	
Grid Northing (Meters) 	
Grid Easting (Meters) 	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 4" CRAPE MYRTLE	14	18.04	59.2
MK # 2	NBC IN 4" CRAPE MYRTLE	196	8.21	26.9
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 TIE Ref Mon # 2 PAGIS 1004 Ref Mon # 3 PAGIS 1005	Comments OLD PN:90600011. THE 2 1/2" STANDARD ALUMINUM DISK WAS REMOVED BY THE RESIDENT ENGINEER'S OFFICE AND THE 3/4" REBAR DRIVEN DOWN AND LEFT IN PLACE. SINCE THE MONUMENT WAS DISTURBED, DO NOT USE THE STATION FOR HORIZONTAL OR VERTICAL CONTROL
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600012	Date Monumented 5/29/1990	Monumented By AHTD	County PULASKI	Route 107	Job Number: 60517
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	51,797.6889	
Easting (M)	376,054.7830	
Elevation (M)*		
Northing (SFT)	169,939.5843	
Easting (SFT)	1,233,773.0672	
Elevation (SFT)*		

Convergence Angle	0	9	8.1372252
Scale Factor	1.000028906		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NONE		0	0.00	0.0
MK # 2	NONE		0	0.00	0.0
MK # 3	NONE		0	0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 TIE Ref Mon # 2 PAGIS 1004 Ref Mon # 3 PAGIS 1005	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Old point number 90600012</td> </tr> </table>	Comments	Old point number 90600012
Comments			
Old point number 90600012			

Location Description
THE STATION IS ON MC CAIN BLVD. IN NORTH LITTLE ROCK, 18 FEET EAST OF THE NORTHBOUND LANES, 17 FEET WEST OF THE SOUTHBOUND LANES AND 94 FEET FROM A BREAK IN THE MEDIAN THAT ALLOWS TURNS ONTO VELVET RIDGE ROAD ACROSS FROM THE TENNIS COURTS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600013	Date Monumented 2/22/1993	Monumented By AHTD	County PULASKI	Route 430	Job Number: 060110,061190,012119
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	53,339.2419	
Easting (M)	367,686.0960	
Elevation (M)*	83.535	
Northing (SFT)	174,997.1628	
Easting (SFT)	1,206,316.8000	
Elevation (SFT)*	274.064	

Convergence Angle	0	12	19.8325203
Scale Factor	1.000025701		
Elevation Adjust. Factor	0.9999868908		
Combined Adjust. Factor	1.0000125915		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	X' CUT IN TOP OF CONCRETE POST	348		4.95	16.2
MK # 2	X' CUT IN TOP OF CONCRETE POST	60		12.16	39.9
MK # 3	PUNCH POINT IN TOP GUARD RAIL POST	165		6.59	21.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ROCKPORT Ref Mon # 2 SEARPORT Ref Mon # 3 AHTD LITTLE ROCK	3-Wire Levels ran by crew S5104 from NGS Marks J 290 & K 290 on 2-21-07 in job 061190.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600013A Reset	Date Monumented 8/18/2003	Monumented By AHTD	County PULASKI	Route I 430	Job Number: 360117,061190,R60101,01211
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	53,050.8940	
Easting (M)	367,480.5510	
Elevation (M)*	89.592	
Northing (SFT)	174,051.1414	
Easting (SFT)	1,205,642.4411	
Elevation (SFT)*	293.936	

Convergence Angle	0	12	24.5146378
Scale Factor	1.000026308		
Elevation Adjust. Factor	0.9999859403		
Combined Adjust. Factor	1.0000122479		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	3" SWEET GUM		232	8.30	27.2
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	
Ref Mon # 1	600048
Ref Mon # 2	LROC
Ref Mon # 3	600062

Comments
3-Wire Levels ran by crew S5104 from NGS Marks J 290 & K 290 on 2-21-07 in job 061190.

Vertical Determined By: 3rd Order - 3 Wire Level	
Elevation Datum: NAVD 88	
Geoid Datum:	
Latitude	34 48 39.5470656
Longitude	92 21 19.4565276
Ellipsoid Height (M):	62.830
Geoid Height (M):	-26.800

Location Description
TO REACH THE STATION FROM THE JUNCTION OF I 430 AND THE OVERPASS OF STATE HIGHWAY 100, IN NORTH LITTLE ROCK, GO NORTH ON I 430 0.05 MILES TO THE STATION ON THE RIGHT, LOCATED IN THE TRIANGLE FORMED BY I 430, HIGHWAY 100 AND THE ENTRANCE RAMP FROM HIGHWAY 100 ONTO I 430, AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED 93600013A RESET" ON TOP OF A 0.52 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600014	Date Monumented 12/18/2003	Monumented By AHTD	County PULASKI	Route N/A	Job Number: 060110, r60101
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	56,511.3410	
Easting (M)	373,191.1920	
Elevation (M)*	159.940	
Northing (SFT)	185,404.2913	
Easting (SFT)	1,224,378.1024	
Elevation (SFT)*	524.736	

Convergence Angle	0	10	14.0093891
Scale Factor	1.000019136		
Elevation Adjust. Factor	0.9999749008		
Combined Adjust. Factor	0.9999940363		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 10" OAK	18	43.70	143.4
MK # 2	NBC IN 12" PINE	132	36.14	118.6
MK # 3	NBC IN 12" OAK	294	36.89	121.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600014A	Date Monumented 2/22/1993	Monumented By AHTD	County PULASKI	Route N/A	Job Number: 060110
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 56,424.7790		Latitude 34 50 29.6588076
Easting (M) 373,394.1110		Longitude 92 17 27.1850208
Elevation (M)* 154.692		Ellipsoid Height (M): 127.950
		Geoid Height (M): -26.851

Northing (SFT) 185,120.2958	Easting (SFT) 1,225,043.8458	Location Description
Elevation (SFT)* 507.519		FROM THE JCT. OF CATO ROAD AND 16TH STREET ON CAMP ROBINSON, GO NORTH ON A GRAVEL ROAD FOR 0.22 MILES TO A DIRT ROAD ON THE LEFT, GO LEFT FOR 0.16 MILES TO THE STATION 135 FEET LEFT ON A HIGH MOUND OF DIRT AND 2.4 FEET WEST OF WITNESS POST.
Convergence Angle 0 10 9.3560505		
Scale Factor 1.000019310		
Elevation Adjust. Factor 0.9999757244		
Combined Adjust. Factor 0.9999950339		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN 16" PINE	285	77.58	254.5	
MK # 2	NBC IN 12" PINE	319	108.21	355.0	
MK # 3	NBC IN 12" OAK	338	67.23	220.6	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 600046	
Ref Mon # 2 ROCKPORT, 600050	
Ref Mon # 3 600048	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600015	Date Monumented 2/22/1993	Monumented By AHTD	County PULASKI	Route 107	Job Number: 060110, R60101
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas North</td> <td>301</td> </tr> <tr> <td>Horizontal Datum</td> <td>NAD 83 (1997)</td> </tr> <tr> <td>Northing (M)</td> <td>57,656.1510</td> </tr> <tr> <td>Easting (M)</td> <td>378,033.6590</td> </tr> <tr> <td>Elevation (M)*</td> <td>159.878</td> </tr> <tr> <td>Northing (SFT)</td> <td>189,160.2221</td> </tr> <tr> <td>Easting (SFT)</td> <td>1,240,265.4296</td> </tr> <tr> <td>Elevation (SFT)*</td> <td>524.533</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Convergence Angle</td> <td>0</td> <td>8</td> <td>23.1655063</td> </tr> <tr> <td>Scale Factor</td> <td colspan="3">1.000016815</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td colspan="3">0.9999749106</td> </tr> <tr> <td>Combined Adjust. Factor</td> <td colspan="3">0.9999917251</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;">SUPERCEDED CONTROL</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas North	301	Horizontal Datum	NAD 83 (1997)	Northing (M)	57,656.1510	Easting (M)	378,033.6590	Elevation (M)*	159.878	Northing (SFT)	189,160.2221	Easting (SFT)	1,240,265.4296	Elevation (SFT)*	524.533	Convergence Angle	0	8	23.1655063	Scale Factor	1.000016815			Elevation Adjust. Factor	0.9999749106			Combined Adjust. Factor	0.9999917251			Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Vertical Determined By:</td> <td>3rd Order - 3 Wire Level</td> </tr> <tr> <td>Elevation Datum:</td> <td>NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td>34 51 10.0227456</td> </tr> <tr> <td>Longitude</td> <td>92 14 24.6954120</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>133.012</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-26.863</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center;">Location Description</p> <p>FROM THE PARKING LOT AT THE KEVIN MC REYNOLDS BASEBALL PARK IN SHERWOOD, GO TO THE NORTHWEST CORNER OF THE LOT TO A DIRT ROAD NORTH, GO 0.13 MILES TO THE STATION ON THE LEFT AND 3.0 FEET SOUTH OF A WITNESS POST.</p> </div>	Vertical Determined By:	3rd Order - 3 Wire Level	Elevation Datum:	NAVD 88	Geoid Datum:		Latitude	34 51 10.0227456	Longitude	92 14 24.6954120	Ellipsoid Height (M):	133.012	Geoid Height (M):	-26.863
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Geoid Height (M):	-26.863																																																												

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN 3" PINE		65	23.59	77.4
MK # 2	NBC IN 3" PINE		112	25.91	85.0
MK # 3	NONE		0	0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 600046</p> <p>Ref Mon # 2 ROCKPORT, 600050</p> <p>Ref Mon # 3 600048</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Comments</p> <p>3-Wire Levels ran by crew S5104, S5108, & S5113 from NGS Marks J 290 & K 290 (430-40 interchange on railroad track) to G10 & RV159 (67/167 - 440 interchange on railroad track) in May 07 in job R60101.</p> </div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600015A	Date Monumented 2/22/1993	Monumented By AHTD	County PULASKI	Route 107	Job Number: 060110, R60101
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas North</td> <td>301</td> </tr> <tr> <td>Horizontal Datum</td> <td>NAD 83 (1997)</td> </tr> <tr> <td>Northing (M)</td> <td>57,482.5220</td> </tr> <tr> <td>Easting (M)</td> <td>378,181.6740</td> </tr> <tr> <td>Elevation (M)*</td> <td>158.747</td> </tr> <tr> <td>Northing (SFT)</td> <td>188,590.5743</td> </tr> <tr> <td>Easting (SFT)</td> <td>1,240,751.0421</td> </tr> <tr> <td>Elevation (SFT)*</td> <td>520.824</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Convergence Angle</td> <td style="width: 10%;">0</td> <td style="width: 10%;">8</td> <td style="width: 30%;">19.7654205</td> </tr> <tr> <td>Scale Factor</td> <td colspan="3">1.000017160</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td colspan="3">0.9999750880</td> </tr> <tr> <td>Combined Adjust. Factor</td> <td colspan="3">0.9999922475</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;">SUPERCEDED CONTROL</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas North	301	Horizontal Datum	NAD 83 (1997)	Northing (M)	57,482.5220	Easting (M)	378,181.6740	Elevation (M)*	158.747	Northing (SFT)	188,590.5743	Easting (SFT)	1,240,751.0421	Elevation (SFT)*	520.824	Convergence Angle	0	8	19.7654205	Scale Factor	1.000017160			Elevation Adjust. Factor	0.9999750880			Combined Adjust. Factor	0.9999922475			Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Vertical Determined By:</td> <td style="width: 50%;">3rd Order - 3 Wire Level</td> </tr> <tr> <td>Elevation Datum:</td> <td>NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td>34 51 4.4001720</td> </tr> <tr> <td>Longitude</td> <td>92 14 18.8523276</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>131.881</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-26.857</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center; margin: 0;">Location Description</p> <p style="margin: 0;">FROM THE ENTRANCE TO THE KEVIN MC REYNOLDS BALL PARK IN SHERWOOD, GO WEST INTO THE PARKING LOT FOR 0.15 MILES TO THE STATION ON THE LEFT AND 1.02 FEET FROM OF A WITNESS POST.</p> </div>	Vertical Determined By:	3rd Order - 3 Wire Level	Elevation Datum:	NAVD 88	Geoid Datum:		Latitude	34 51 4.4001720	Longitude	92 14 18.8523276	Ellipsoid Height (M):	131.881	Geoid Height (M):	-26.857
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Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN LIGHT POLE	145		23.35	76.6
MK # 2	NBC IN LIGHT POLE	223		56.82	186.4
MK # 3	NBC IN 16" HICKORY	335		44.50	146.0

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 600046</p> <p>Ref Mon # 2 ROCKPORT, 600050</p> <p>Ref Mon # 3 600048</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;">Comments</p> <p style="margin: 0;">3-Wire Levels ran by crew S5104, S5108, & S5113 from NGS Marks J 290 & K 290 (430-40 interchange on railroad track) to G10 & RV159 (67/167 - 440 interchange on railroad track) in May 07 in job R60101.</p> </div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600017	Date Monumented 9/1/1993	Monumented By AHTD	County PULASKI	Route 30	Job Number: 60209
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 621,622.0799		Latitude 34 39 50.9567976
Easting (M) 363,684.5330		Longitude 92 23 46.3514676
Elevation (M)* 90.416		Ellipsoid Height (M): 63.005
		Geoid Height (M): -27.411

Northing (SFT) 2,039,438.4405		
Easting (SFT) 1,193,188.3387		
Elevation (SFT)* 296.640		

Convergence Angle 0 13 18.3156326		
Scale Factor 0.999978748		
Elevation Adjust. Factor 0.9999858110		
Combined Adjust. Factor 0.9999645593		

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Description

FROM THE INTERSECTION OF I-30 AND EXIT 130 JUST SOUTH OF THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT CENTRAL OFFICES, TAKE THE SOUTH SERVICE ROAD AND GO SOUTHWEST FOR 1.28 KM (0.80 MILES) TO SIBLEY HOLE ROAD ON THE LEFT AND THE STATION ON THE RIGHT. THE STATION IS 13.14 METERS SOUTHEAST OF THE EDGE OF THE EAST BOUND CONCRETE LANES, 6.35 METERS NORTHWEST OF THE CENTERLINE OF THE SERVICE ROAD, 26.25 METERS WEST OF THE JUNCTION OF THE SERVICE ROAD AND SIBLEY HOLE ROAD AND 19.0 METERS NORTHWEST OF A WITNESS POST JUST IN FRONT OF A CHAIN LINK FENCE.

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	CENTER OF DROP INLET	50	14.02	46.0	9360017A AZ. MK.	
MK # 2	NBC IN POWER POLE	103	32.34	106.1	65 57 15.00955	
MK # 3	CENTER OF TOP OF CONCRETE R/W MARK	140	19.51	64.0	66 10 33.434520	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ADAMS 2	
Ref Mon # 2 ROCKPORT	
Ref Mon # 3 93600016 AHTD GPS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600017A	Date Monumented 9/1/1993	Monumented By AHTD	County PULASKI	Route 30	Job Number: 60209
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	621,893.0920				
Easting (M)	364,298.3020				
Elevation (M)*	88.239				
Northing (SFT)	2,040,327.5860				
Easting (SFT)	1,195,202.0125				
Elevation (SFT)*	289.497				

Convergence Angle	0	13	4.8460722
Scale Factor	0.999979221		
Elevation Adjust. Factor	0.9999861526		
Combined Adjust. Factor	0.9999653739		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
FROM THE INTERSECTION OF I-30 AND EXIT 130 JUST SOUTH OF THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT CENTRAL OFFICES, TAKE THE SOUTH SERVICE ROAD AND GO 0.61 KM (0.38 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.14 METERS SOUTHEAST OF THE EDGE OF THE EASTBOUND CONCRETE LANES, 5.10 METERS NORTHWEST OF THE CENTERLINE OF THE SERVICE ROAD AND 16.00 METERS NORTHWEST OF A WITNESS POST JUST IN FRONT OF A CHAIN LINK FENCE.			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	PAGIS POINT #2049	223		47.29	155.2
MK # 2	NBC IN COMBINATION POLE	86		39.07	128.2
MK # 3	6" PIPE GATE POST	105		24.15	79.2

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ADAMS 2</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ROCKPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>93600016 AHTD GPS</td> </tr> </table>	Ref Mon # 1	ADAMS 2	Ref Mon # 2	ROCKPORT	Ref Mon # 3	93600016 AHTD GPS	<table border="1" style="width: 100%; height: 100px;"> <tr> <td style="text-align: center;">Comments</td> </tr> </table>	Comments
Ref Mon # 1	ADAMS 2							
Ref Mon # 2	ROCKPORT							
Ref Mon # 3	93600016 AHTD GPS							
Comments								

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600020	Date Monumented 6/8/1994	Monumented By AHTD	County PULASKI	Route 176	Job Number: B60117, 60620,061348
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	52,160.9518
Easting (M)	375,644.3030
Elevation (M)*	98.431
Northing (SFT)	171,131.3894
Easting (SFT)	1,232,426.3508
Elevation (SFT)*	322.937

Convergence Angle	0	9	17.5560810
Scale Factor	1.000028135		
Elevation Adjust. Factor	0.9999845531		
Combined Adjust. Factor	1.0000126877		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	48	11.5184016
Longitude	92	15	58.1524020
Ellipsoid Height:	70.808		
Grid Northing (Meters)	52,161.3709		
Grid Easting (Meters)	375,644.6550		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN LIGHT POLE	284	3.10	10.2
MK # 2	NBC IN COMBINATION POLE	319	23.70	77.8
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ROCKPORT	OLD ELEV. 98.460 m, Cross Reference Job: 060655 *****NEW ELEV. BASED ON DIGITAL LEVELS BY S5112 IN FEB. 2016 FOR SHILCOTTS BAYOU STR. & APPRS. ELEV. RAN FROM TBM 905 FROM JOB #061348. S5112 RAN BETWEEN G 290 & 905 TO VERIFY 905 ELEV.
Ref Mon # 2 ADAMS 2	
Ref Mon # 3 93600013	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600021	Date Monumented 6/8/1994	Monumented By AHTD	County PULASKI	Route I-40	Job Number: B60117, 60620
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	50,127.0679	
Easting (M)	374,725.4310	
Elevation (M)*	105.406	
Northing (SFT)	164,458.5553	
Easting (SFT)	1,229,411.6849	
Elevation (SFT)*	345.820	

Convergence Angle	0	9	38.4604203
Scale Factor	1.000032512		
Elevation Adjust. Factor	0.9999834586		
Combined Adjust. Factor	1.0000159701		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	"X" CUT IN CONCRETE GUARD RAIL POST	233	18.27 59.9
MK # 2	"X" CUT IN CONCRETE GUARD RAIL POST	266	31.16 102.2
MK # 3	"X" CUT IN CONCRETE GUARD RAIL POST	251	22.36 73.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ROCKPORT	Cross Reference Job: 060655
Ref Mon # 2 ADAMS 2	
Ref Mon # 3 93600013	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	34 47 5.4235356
Longitude	92 16 34.0905432
Ellipsoid Height (M):	77.794
Geoid Height (M):	-27.612

Location Description
<p>FROM THE LEVY EXIT (NO. 152) ON I-40 IN NORTH LITTLE ROCK, GO WEST ON I-40 FOR 0.483 KM (0.30 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 21.05 METERS NORTHEAST OF THE NORTH EDGE OF THE WESTBOUND LANE OF I-40 AND 0.60 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600021" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600021A	Date Monumented 6/8/1994	Monumented By AHTD	County PULASKI	Route I-40	Job Number: 60620
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	50,270.2179	
Easting (M)	374,405.8280	
Elevation (M)*	102.511	
Northing (SFT)	164,928.2066	
Easting (SFT)	1,228,363.1207	
Elevation (SFT)*	336.322	

Convergence Angle	0	9	45.7844559
Scale Factor	1.000032203		
Elevation Adjust. Factor	0.9999839129		
Combined Adjust. Factor	1.0000161154		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	"X" CUT IN BRIDGE END	328		10.74	35.2
MK # 2	"X" CUT IN BRIDGE END	133		4.24	13.9
MK # 3	"X" CUT IN CONCRETE GUARD RAIL POST	265		5.96	19.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="ROCKPORT"/> Ref Mon # 2 <input type="text" value="ADAMS 2"/> Ref Mon # 3 <input type="text" value="93600013"/>	Cross Reference Job: 060655 / Error in Desc. NEED DISTANCE AND DIRECTION TO WITNESS POST (ON DESCRIPTION FORM). <div style="height: 100px; border: 1px solid black;"></div>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600022	Date Monumented 9/19/1994	Monumented By AHTD	County PULASKI	Route 100	Job Number: 60536,012119
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	60,658.4440	
Easting (M)	364,033.1990	
Elevation (M)*	84.058	
Northing (SFT)	199,010.2450	
Easting (SFT)	1,194,332.2537	
Elevation (SFT)*	275.780	

Convergence Angle	0	13	44.1349374
Scale Factor	1.000011036		
Elevation Adjust. Factor	0.9999868087		
Combined Adjust. Factor	0.9999978446		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	LIGHT POLE	86	10.35	34.0	
MK # 2	CENTER OF A MANHOLE	355	26.55	87.1	
MK # 3	NONE				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>SALTILLO</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ROCKPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	SALTILLO	Ref Mon # 2	ROCKPORT	Ref Mon # 3	NONE	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	SALTILLO						
Ref Mon # 2	ROCKPORT						
Ref Mon # 3	NONE						

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 52 45.9851448
Longitude	92 23 36.2848812
Ellipsoid Height (M):	56.099
Geoid Height (M):	-27.959

Location Description
<p>FROM THE JCT. OF HWY. 365 AND HWY. 100 WEST OF MORGAN, GO SOUTH ON HWY. 100 FOR 0.386 KM (0.24 MILES) TO A RAILROAD CROSSING. CONTINUE AHEAD FOR 0.08 KM (0.05 MILES) TO THE STATION ON THE LEFT IN THE MEDIAN BETWEEN THE LANES. THE STATION 13.7 METERS EAST OF THE WESTBOUND LANE, 9.70 METERS WEST OF THE EASTBOUND LANE AND 0.50 METERS NORTH-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600023" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

AZ Mark Station	600022A
Geodetic Azimuth	9 54 58.72084
Grid Azimuth	10 08 42.83885

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600022A	Date Monumented 9/19/1994	Monumented By AHTD	County PULASKI	Route 365	Job Number: 061097, 60536,012119
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	61,147.7670	
Easting (M)	364,120.5890	
Elevation (M)*	85.501	
Northing (SFT)	200,615.6322	
Easting (SFT)	1,194,618.9657	
Elevation (SFT)*	280.514	

Convergence Angle	0	13	42.1772181
Scale Factor	1.000010099		
Elevation Adjust. Factor	0.9999865823		
Combined Adjust. Factor	0.9999966812		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL SIGN POST	329	9.30	30.5
MK # 2	COMBINATION POLE	99	25.90	85.0
MK # 3	LAMP POST IN PARKING LOT	0	25.50	83.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 100%;" type="text" value="RUSSPORT"/> Ref Mon # 2 <input style="width: 100%;" type="text" value="BUTLER"/> Ref Mon # 3 <input style="width: 100%;" type="text" value="AHTD LROC"/>	3-Wire Levels ran by crew S5103 from NGS mark P 290 on 04-16-03 in job 061097.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600023	Date Monumented 9/19/1994	Monumented By AHTD	County PULASKI	Route 365	Job Number: 061097, 60536,012119
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	61,372.0810	
Easting (M)	365,503.1910	
Elevation (M)*	83.695	
Northing (SFT)	201,351.5691	
Easting (SFT)	1,199,155.0525	
Elevation (SFT)*	274.589	

Convergence Angle	0	13	10.5148881
Scale Factor	1.000009662		
Elevation Adjust. Factor	0.9999868657		
Combined Adjust. Factor	0.9999965276		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	10	36.70	120.4	600023A
MK # 2	POWER POLE	170	9.00	29.5	213 33 27
MK # 3	SOUTHWEST CORNER OF PARKING LOT	93	26.55	87.1	213 46 38

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT	3 Wire Levels ran by crew s5103 from NGS mark P 290 on 04-21-03 in job 061097.
Ref Mon # 2 BUTLER	
Ref Mon # 3 AHTD LROC	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600023A RESET	Date Monumented 4/7/2003	Monumented By AHTD	County PULASKI	Route N/A	Job Number: 061097, 60536,012119
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	61,127.9640	
Easting (M)	365,339.9090	
Elevation (M)*	83.062	
Northing (SFT)	200,550.6619	
Easting (SFT)	1,198,619.3514	
Elevation (SFT)*	272.513	

Convergence Angle	0	13	14.2350146
Scale Factor	1.000010128		
Elevation Adjust. Factor	0.9999869650		
Combined Adjust. Factor	0.9999970929		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	184	18.30	60.0
MK # 2	12" GUM TREE	147	29.30	96.1
MK # 3	CABLE ANCHOR POST	175	19.40	63.6

Area Reference Monuments (used for Processing) Ref Mon # 1 RUSSPORT Ref Mon # 2 BUTLER Ref Mon # 3 AHTD LROC	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire levels ran by crew s5103 from NGS mark P 290 on 04-21-03 in job 061097.</td> </tr> </table>	Comments	3-Wire levels ran by crew s5103 from NGS mark P 290 on 04-21-03 in job 061097.
Comments			
3-Wire levels ran by crew s5103 from NGS mark P 290 on 04-21-03 in job 061097.			

Location Description
FROM THE JCT. OF HWY. 365 AND 100 WEST O MORGAN, GO EAST ON HWY 365 FOR 0.65 MILES TO THE JCT. WITH "LONG FISHER ROAD" ON THE RIGHT, TURN RIGHT AND GO 0.15 MILES TO THE STATION ON THE LEFT. THE STATION IS 4.3 METERS NORTH OF THE CENTERLINE OF THE ROAD AND 3.0 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "600023AA RESET 2003" ON TOPOF A 1.22 METR IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	600023
Geodetic Azimuth	33 33 24
Grid Azimuth	33 46 38

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600024	Date Monumented 10/6/1994	Monumented By AHTD	County PULASKI	Route I-40	Job Number: R60138
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 49,444.1310		Latitude 34 46 43.7854620
Easting (M) 381,338.8720		Longitude 92 12 13.9182444
Elevation (M)* 83.153		Ellipsoid Height (M): 55.598
		Geoid Height (M): -27.555

Northing (SFT) 162,217.9531		
Easting (SFT) 1,251,109.2826		
Elevation (SFT)* 272.811		

Convergence Angle 0 7 7.0663865		
Scale Factor 1.000033968		
Elevation Adjust. Factor 0.9999869508		
Combined Adjust. Factor 1.0000209183		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
<p>THE STATION IS LOCATED ON INTERSTATE 40 IN THE MEDIAN AT THE WEST END OF THE I-40 OVERPASS CROSSING HWY. 161 AT PROTHO JUNCTION IN THE EASTERN PART OF NORTH LITTLE ROCK. FROM THE JCT. OF I-40 AND HWY. 67-167, GO EAST ON I-40 FOR 3.0 KM (1.87 MILES) TO THE STATION ON THE LEFT. THE STATION IS 4.40 METERS NORTH OF THE NORTH EDGE OF THE EASTBOUND LANES, 13.0 METERS SOUTH OF THE SOUTHEAST CONCRETE WINGWALL OF THE WESTBOUND BRIDGE AND 2.65 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600024" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>				

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	"X" CUT IN BACKWALL FOOTING	125	4.88	16.0	600024A	
MK # 2	"X" CUT IN WING WALL	230	3.70	12.1	277 27 27.70718	
MK # 3	"X" CUT IN BACKWALL FOOTING	332	15.67	51.4	277 34 34.89678	

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: ADAMS 2</p> <p>Ref Mon # 2: ROCKPORT</p> <p>Ref Mon # 3: NONE</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600024A	Date Monumented 10/6/1994	Monumented By AHTD	County PULASKI	Route I-40	Job Number: R60138
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Vertical Determined By:</td> <td colspan="3">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="3">NGVD 29</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="3"></td> </tr> <tr> <td>Latitude</td> <td style="width: 5%;">34</td> <td style="width: 5%;">46</td> <td>46.1019036</td> </tr> <tr> <td>Longitude</td> <td>92</td> <td>12</td> <td>35.3705652</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td colspan="2">57.221</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td colspan="2">-27.559</td> <td></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality			Elevation Datum:	NGVD 29			Geoid Datum:				Latitude	34	46	46.1019036	Longitude	92	12	35.3705652	Ellipsoid Height (M):	57.221			Geoid Height (M):	-27.559		
Vertical Determined By:	LEVEL - Unkown Quality																													
Elevation Datum:	NGVD 29																													
Geoid Datum:																														
Latitude	34		46	46.1019036																										
Longitude	92		12	35.3705652																										
Ellipsoid Height (M):	57.221																													
Geoid Height (M):	-27.559																													
Horizontal Datum NAD 83 (1986)																														
Northing (M)	49,516.6619																													
Easting (M)	380,793.5630																													
Elevation (M)*	84.780																													
Northing (SFT)	162,455.9149																													
Easting (SFT)	1,249,320.2146																													
Elevation (SFT)*	278.149																													

Convergence Angle	0	7	19.5494732
Scale Factor	1.000033811		
Elevation Adjust. Factor	0.9999866954		
Combined Adjust. Factor	1.0000205060		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

FROM THE JCT. OF I-40 AND HWY. 67-167 IN NORTH LITTLE ROCK, GO EAST ON I-40 FOR 2.46 KM (1.53 MILES) TO THE STATION ON THE LEFT IN THE MEDIAN. THE STATION IS ON THE EAST END OF THE BRIDGE OVER THE MISSOURI PACIFIC RAILROAD, 4.40 METERS SOUTH OF THE SOUTH EDGE OF THE WESTBOUND LANES, 14.00 METERS NORTH OF THE NORTH EDGE OF THE EASTBOUND LANES AND 1.91 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/" ALUMINUM CAP STAMPED "600024A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	"X" CUT IN END OF WINGWALL		77	8.36	27.4	AZ Mark Station 600024
MK # 2	"X" CUT IN BACKWALL FOOTING		3	2.05	6.7	Geodetic Azimuth 97 27 15.470468
MK # 3	"X" CUT IIN BACKWALL FOOTING		227	13.75	45.1	Grid Azimuth 97 34 34.89678

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ADAMS 2 Ref Mon # 2 ROCKPORT Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600025	Date Monumented 9/21/1998	Monumented By AHTD	County PULASKI	Route I-40	Job Number: 61117,060979,R60080,R6013
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 49,404.1120		Latitude 34 46 42.3350184
Easting (M) 379,201.3840		Longitude 92 13 37.9789932
Elevation (M)* 87.563		Ellipsoid Height (M): 61.019
Northing (SFT) 162,086.6575		Geoid Height (M): -26.627
Easting (SFT) 1,244,096.5407		
Elevation (SFT)* 287.280		

Convergence Angle 0 7 55.9812629	Location Description
Scale Factor 1.000034066	<p>TO REACH THE STATION FROM THE JUNCTION OF I-40 AND U.S. HIGHWAY 67-167, IN NORTH LITTLE ROCK, GO EAST ON I-40 FOR 0.853 KM (0.53 MI) TO THE STATION ON THE LEFT ON THE NORTHWEST END OF A HILL IN THE MEDIAN. THE STATION IS 28.95 METERS SOUTH OF THE SOUTH EDGE OF THE WESTBOUND LANES AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "600025" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 0.9999862587	
Combined Adjust. Factor 1.0000203242	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	0.15 METER ELM	88	18.16	59.6	600025A
MK # 2	0.30 METER PINE	105	37.74	123.8	319 06 42.69912
MK # 3					319 14 38.75352

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ADAMS 2</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ROCKPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SEARPORT</td> </tr> </table>	Ref Mon # 1	ADAMS 2	Ref Mon # 2	ROCKPORT	Ref Mon # 3	SEARPORT	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ADAMS 2						
Ref Mon # 2	ROCKPORT						
Ref Mon # 3	SEARPORT						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600025A	Date Monumented 9/21/1998	Monumented By AHTD	County PULASKI	Route 67-16	Job Number: 61117,060979,R60080,R6013
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 49,779.0190		Latitude 34 46 54.4762920
Easting (M) 378,878.2760		Longitude 92 13 50.7208656
Elevation (M)* 98.878		Ellipsoid Height (M): 72.324
		Geoid Height (M): -26.636

Northing (SFT) 163,316.6648		
Easting (SFT) 1,243,036.4772		
Elevation (SFT)* 324.402		

Convergence Angle 0 8 3.3957473		
Scale Factor 1.000033247		
Elevation Adjust. Factor 0.9999844831		
Combined Adjust. Factor 1.0000177295		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-40 AND U.S. HIGHWAY 67-167, IN NORTH LITTLE ROCK, GO NORTH ON U.S. HIGHWAY 67-167 FOR 0.836 KM (0.52 MI) TO THE ON THE LEFT IN AN OLD BORROW AREA BETWEEN THE NORTH AND SOUTH BOUND LANES. THE STATION IS 42.18 METERS WEST OF U.S. HIGHWAY 67-167 NORTHBOUND LANES AND 0.60 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "600025A" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station 600025
MK # 2					Geodetic Azimuth 139 06 35.43080
MK # 3					Grid Azimuth 139 14 38.75352

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ADAMS 2</p> <p>Ref Mon # 2 ROCKPORT</p> <p>Ref Mon # 3 SEARPORT</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600026A	Date Monumented 9/28/1995	Monumented By AHTD	County PULASKI	Route N/A	Job Number: 060761,061261,061383
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	61,182.1856	
Easting (M)	390,195.6472	
Elevation (M)*	83.051	
Northing (SFT)	200,728.5539	
Easting (SFT)	1,280,166.8859	
Elevation (SFT)*	272.476	

Convergence Angle	0	3	44.6688443
Scale Factor	1.000009908		
Elevation Adjust. Factor	0.9999869668		
Combined Adjust. Factor	0.9999968747		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	53	5.1572148
Longitude	92	6	26.0778168
Ellipsoid Height:	55.343		
Grid Northing (Meters)	61,182.7470		
Grid Easting (Meters)	390,196.1060		

Location Description				
<p>FROM THE JCT. OF NORTH FIRST STREET, T.P. WHITE DRIVE AND VANDENBERG BLVD. IN JACKSONVILLE, GO SOUTH ON NORTH FIRST STREET FOR 0.241 KM (0.15 MILES) TO THE JCT. WITH J.P. WRIGHT LOOP ROAD AND THE STATION ON THE LEFT. THE STATION IS 12.60 METERS EAST OF THE CENTER OF NORTH FIRST STREET, 20.0 METERS NORTH OF THE CENTER OF J.P. WRIGHT LOOP ROAD AND 0.8 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600026A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. *****ELEV BY 3-WIRE USING TBM-1(AHTD JOB 060761). TBM-1 SET FROM TBM-6 (AHTD JOB 060590). TBM-6 SET FROM AHTD BM #600052 HWY. 67, SEC 10, LM 10.8 AND IS A DISK IN SE CRN OF DI LT OF N 1ST ST APPRX. 170 FT RT OF HWY 67-167. ELEV= 84.997 M(278.86 FT) NGVD2.*****Old Elev 83.1080 Meters*****</p>				

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	MANHOLE		20	10.80	35.4
MK # 2	McDonald's Sign		115	7.70	25.3
MK # 3	Combination Pole		155	18.00	59.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 430017A, 430014, 430014A Ref Mon # 3 430016, 430016A	PREVIOUS ELEV. (83.062 m) BY 3 wire levels reran by crew S5113 on Job R60081 in March of 05 from NGS RV 159. Updated elevation by digital levels by S5111 in June of 2011 from 1st Order NGS BM RV 152 to 1st Order NGS BM RV 135 UNDER P.E. JOB #061261.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600027	Date Monumented 10/5/1995	Monumented By AHTD	County PULASKI	Route N/A	Job Number: 6905_3,061381
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	631,186.5041	
Easting (M)	369,902.9383	
Elevation (M)*	117.918	
Northing (SFT)	2,070,817.7222	
Easting (SFT)	1,213,589.8901	
Elevation (SFT)*	386.869	

Convergence Angle	0	11	2.2938082
Scale Factor	0.999996454		
Elevation Adjust. Factor	0.9999814952		
Combined Adjust. Factor	0.9999779492		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	45	2.0658672
Longitude	92	19	43.3068636
Ellipsoid Height:	90.352		
Grid Northing (Meters)	631,186.9325		
Grid Easting (Meters)	369,903.3021		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	13" (0.33 M) PIN OAK TREE		123	26.05	85.5
MK # 2	9" (0.24 M) PIN OAK TREE		175	12.90	42.3
MK # 3	8" (0.21 M) PIN OAK TREE		266	26.20	86.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ADAMS 2 1970 Ref Mon # 2 ROCKPORT 1990 Ref Mon # 3 PAGIS 1006	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>War Memorial Stadium THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. Y 10 1932. NOTE: 10/31/2001 POSSIBLY UNDER NEW PARKING LOT. NOT FOUND</td> </tr> </table>	Comments	War Memorial Stadium THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. Y 10 1932. NOTE: 10/31/2001 POSSIBLY UNDER NEW PARKING LOT. NOT FOUND
Comments			
War Memorial Stadium THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. Y 10 1932. NOTE: 10/31/2001 POSSIBLY UNDER NEW PARKING LOT. NOT FOUND			

Location Description
FROM THE JCT. OF I-630 AND FAIR PARK BLVD. IN LITTLE ROCK, GO NORTH ON FAIR PARK BLVD. FOR 1.046 KM (0.65 MILES) TO THE JCT. WITH MARKHAM STREET, TURN RIGHT AND GO EAST ON MARKHAM STREET FOR 0.322 KM (0.20 MILES) TO THE JCT. WITH MONROE STREET, TURN RIGHT AND GO SOUTH ON MONROE STREET FOR 0.161 KM (0.10 MILES) TO A PARKING LOT ENTRANCE (FOR WAR MEMORIAL STADIUM PARKING LOT), TURN RIGHT INTO THE PARKING LOT AND GO 0.08 KM (0.05 MILES) TO THE STATION ON THE SOUTH EDGE OF THE PARKING LOT. THE STATION IS 19.30 METERS SOUTH OF THE NORTH EDGE OF THE PAVED PARKING AREA, 7.20 METERS NORTH OF THE SOUTH EDGE OF THE PAVED PARKING AREA AND 8.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600027 1995" SET ON TOP OF A 3/4" REBAR 0.610 METERS IN LENGTH THAT IS ENCASED IN CONCRETE AND FLUSH WITH THE PAVEMENT.

AZ Mark Station	600027A
Geodetic Azimuth	193 38 09.5821
Grid Azimuth	193 49 38.1594

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600027A	Date Monumented 10/5/1995	Monumented By AHTD	County PULASKI	Route N/A	Job Number: 6905_3,061381
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	630,974.9708	
Easting (M)	369,850.9040	
Elevation (M)*	123.691	
Northing (SFT)	2,070,123.7167	
Easting (SFT)	1,213,419.1742	
Elevation (SFT)*	405.810	

Convergence Angle	0	11	3.4238572
Scale Factor	0.999996039		
Elevation Adjust. Factor	0.9999805892		
Combined Adjust. Factor	0.9999766283		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	44	55.1957964
Longitude	92	19	45.3260568
Ellipsoid Height:	96.129		
Grid Northing (Meters)	630,975.3944		
Grid Easting (Meters)	369,851.2644		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	296	21.60	70.9
MK # 2	MANHOLE	50	10.40	34.1
MK # 3	MANHOLE	111	5.90	19.4

Area Reference Monuments (used for Processing) Ref Mon # 1 ADAMS 2 1970 Ref Mon # 2 ROCKPORT 1990 Ref Mon # 3 PAGIS 1006	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>War Memorial Stadium THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. Y 10 1932.</td> </tr> </table>	Comments	War Memorial Stadium THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. Y 10 1932.
Comments			
War Memorial Stadium THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. Y 10 1932.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEIOD09
Latitude	34 44 55.1820120
Longitude	92 19 45.3401760
Ellipsoid Height (M):	97.016
Geoid Height (M):	-26.654

Location Description
<p>FROM THE JCT. OF I-630 AND FAIR PARK BLVD. IN LITTLE ROCK, GO NORTH ON FAIR PARK BLVD. FOR 1.046 KM (0.65 MILES) TO THE JCT. WITH MARKHAM STREET, TURN RIGHT AND GO EAST ON MARKHAM STREET FOR 0.322 KMLES (0.20 MILES) TO THE JCT. WITH MONROE STREET, TURN RIGHT AND GO SOUTH ON MONROE STREET FOR 0.322 KM (0.20 MILES) TO THE ENTRANCE OF THE WAR MEMORIAL FITNESS CENTER ON THE RIGHT, TURN RIGHT AND FOLLOW THE NORTHERN MOST DRIVE IN A WESTERLY DIRECTION FOR 0.161 KM (0.10 MILES) TO THE STATION ON THE LEFT IN THE SOUTH EDGE OF THE PAVEMENT. THE STATION IS 16.99 METERS SOUTH OF A 0.65mm POST OAK TREE, 6.75 METERS SOUTH OF THE NORTH EDGE OF A CURB AND 0.64 METERS NORTH OF THE SOUTH EDGE OF A CURB AND A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600027A 1995" SET ON TOP OF A 3/4" REBAR 0.610 METERS IN LENGTH THAT IS ENCASED IN CONCRETE AND FLUSH WITH THE SURFACE OF THE PAVEMENT.</p>

AZ Mark Station	600027
Geodetic Azimuth	13 38 08.43122
Grid Azimuth	13 49 38.1594

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600028	Date Monumented 12/20/1995	Monumented By AHTD	County PULASKI	Route 67	Job Number: 6905_4
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 44,094.6490		Latitude 34 43 49.6615260
Easting (M) 374,595.7960		Longitude 92 16 38.5209120
Elevation (M)* 106.700		Ellipsoid Height (M): 79.203
		Geoid Height (M): -27.479

Northing (SFT) 144,667.1943		
Easting (SFT) 1,228,986.3740		
Elevation (SFT)* 350.065		

Convergence Angle 0 9 41.0384480		
Scale Factor 1.000046074		
Elevation Adjust. Factor 0.9999832556		
Combined Adjust. Factor 1.0000293288		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE CENTER OF THE BROADWAY ST. BRIDGE OVER I-630 IN LITTLE ROCK GO SOUTH ON BROADWAY FOR 0.97 KM. (0.60 MI.) TO THE JUNCTION WITH WEST 19th. STREET, TURN LEFT AND GO EAST ON WEST 19th. STREET FOR 0.08 KM. (0.05 MI.) TO THE JUNCTION WITH SOUTH SPRING STREET AND THE STATION ON THE RIGHT. 11.40 METERS SOUTH OF WEST 19th. STREET, 6.35 METERS WEST OF THE CENTER OF SOUTH SPRING STREET, 0.72 METERS WEST OF THE BACK OF THE CONCRETE CURB AND 0.72 METERS EAST OF THE EDGE OF A CONCRETE SIDEWALK. THE STATION MARK IS A STANDARD CAP STAMPED "600028" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	CORNER POST	303	3.70	12.1		600029
MK # 2	MANHOLE	6	2.25	7.4		7 58 41.40077
MK # 3	MANHOLE	82	8.00	26.2		8 08 22.4335

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: ROCKPORT</p> <p>Ref Mon # 2: ADAMS 2</p> <p>Ref Mon # 3: 93600019</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BY 3-WIRE USING ARGS BENCH MARK "ACID".</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600029	Date Monumented 12/20/1995	Monumented By AHTD	County PULASKI	Route 67	Job Number: 6905_4
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	44,264.9700	
Easting (M)	374,620.1560	
Elevation (M)*	108.703	
Northing (SFT)	145,225.9891	
Easting (SFT)	1,229,066.2951	
Elevation (SFT)*	356.636	

Convergence Angle	0	9	40.4922591
Scale Factor	1.000045679		
Elevation Adjust. Factor	0.9999829412		
Combined Adjust. Factor	1.0000286195		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	LIGHT POLE	183	15.60	51.2	
MK # 2	LIGHT POLE	263	12.85	42.2	
MK # 3	MANHOLE	334	14.20	46.6	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ROCKPORT Ref Mon # 2 ADAMS 2 Ref Mon # 3 93600019	ELEVATION BY 3-WIRE USING ARGS BENCH MARK "ACID".

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600030	Date Monumented 12/20/1995	Monumented By AHTD	County PULASKI	Route 67	Job Number: 6905_4
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	44,107.7519	
Easting (M)	374,706.2150	
Elevation (M)*	104.533	
Northing (SFT)	144,710.1827	
Easting (SFT)	1,229,348.6404	
Elevation (SFT)*	342.955	

Convergence Angle	0	9	38.5138261
Scale Factor	1.000046043		
Elevation Adjust. Factor	0.9999835956		
Combined Adjust. Factor	1.0000296379		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SEWER MANHOLE	155	19.74	64.8
MK # 2	AP&L UTILITIES BOX	79	12.35	40.5
MK # 3	METAL LIGHT POLE WITH 3 CAMERAS	236	7.05	23.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="ROCKPORT"/> Ref Mon # 2 <input type="text" value="ADAMS 2"/> Ref Mon # 3 <input type="text" value="93600019"/>	ELEVATION BY 3-WIRE USING ARGS BENCH MARK "ACID".

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	34 43 50.0967840
Longitude	92 16 34.1823216
Ellipsoid Height (M):	77.054
Geoid Height (M):	-27.479

Location Description
<p>THE STATION IS LOCATED IN THE SOUTH LAWN AT THE GOVERNORS MANSION IN LITTLE ROCK. 36.50 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF A PAVED PARKING AREA, 24.80 METERS EAST OF THE SOUTHEAST CORNER OF A CONCRETE SIDEWALK, 19.50 METERS NORTH OF THE NORTH EDGE OF A CONCRETE DRIVE AND 7.57 METERS NORTHWEST OF A SPRINKLER HEAD. THE STATION MARK IS A STANDARD CAP STAMPED "600030" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	600030A
Geodetic Azimuth	38 12 00.93067
Grid Azimuth	38 21 39.42886

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600030A	Date Monumented 12/20/1995	Monumented By AHTD	County PULASKI	Route 67	Job Number: 6905_4
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	44,190.5569	
Easting (M)	374,771.7540	
Elevation (M)*	104.701	
Northing (SFT)	144,981.8521	
Easting (SFT)	1,229,563.6629	
Elevation (SFT)*	343.507	

Convergence Angle	0	9	37.0201403
Scale Factor	1.000045850		
Elevation Adjust. Factor	0.9999835693		
Combined Adjust. Factor	1.0000294185		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	33	10.00	32.8
MK # 2	SPRINKLER HEAD	200	9.25	30.3
MK # 3	METAL POLE WITH 2 CAMERAS	346	15.13	49.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ROCKPORT	ELEVATION BY 3-WIRE USING ARGS BENCH MARK "ACID".
Ref Mon # 2 ADAMS 2	
Ref Mon # 3 93600019	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600031	Date Monumented 9/30/1996	Monumented By AHTD	County PULASKI	Route I-440	Job Number: 060799,BB0611
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	627,292.8492 0.0030
Easting (M)	379,405.4407 0.0020
Elevation (M)*	84.648

Northing (SFT)	2,058,043.2894		
Easting (SFT)	1,244,766.0167		
Elevation (SFT)*	277.717		

Convergence Angle	0 7	33.0013827
Scale Factor	0.999989035	
Elevation Adjust. Factor	0.9999867161	
Combined Adjust. Factor	0.9999757513	

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	42	56.5468740
Longitude	92	13	29.3649096
Ellipsoid Height:	57.250		
Grid Northing (Meters)	627,293.3300		
Grid Easting (Meters)	379,405.7773		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT IN GUARD RAIL POST	355	6.35	20.8
MK # 2	METAL POLE TO CAUTION LIGHT	148	22.70	74.5
MK # 3	WOODEN UTILITY POLE	212	10.00	32.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	**SUPERCEDED ELEVATION (84.664 m) BY 3-WIRE USING BENCH MARK "ADAMS 2 1970" ELEVATION= 77.842 METERS NAVD88 DATUM. *****UPDATE D ELEV. BY S5112 IN JUNE 2013 FOR JOB #BB0611 DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM D 287 **NOTE: WHEN UPDATED FROM PRE-HARN POSITION, ALSO CHANGED FROM
Ref Mon # 2 MSB6	
Ref Mon # 3 P777	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600031A	Date Monumented 9/30/1996	Monumented By AHTD	County PULASKI	Route I-440	Job Number: 060799,BB0611
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	627,396.7258 0.0030
Easting (M)	379,815.4832 0.0020
Elevation (M)*	84.690

Northing (SFT)	2,058,384.0912	
Easting (SFT)	1,246,111.2978	
Elevation (SFT)*	277.855	

Convergence Angle	0 7 23.9869640
Scale Factor	0.999989231
Elevation Adjust. Factor	0.9999867095
Combined Adjust. Factor	0.9999759407

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)
Latitude	34 42 59.9464620
Longitude	92 13 13.2586536
Ellipsoid Height:	57.299
Grid Northing (Meters)	627,397.1971
Grid Easting (Meters)	379,815.8245

Location Description

TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE 440 WEST AND U.S. HIGHWAY 165, LOCATED EAST OF NORTH LITTLE ROCK, GO WESTERLY ON I-440 WEST FOR 5.87 KM 3.65 MILES TO EXIT 3 AND THE STATION ON THE RIGHT. 0.46 m NORTH OF METAL WITNESS POST, 1.67m NORTH OF THE NORTH EDGE OF CONCRETE EXIT RAMP. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600031A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND SET FLUSH WITH THE GROUND.

Location Reference Marks

Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 PUNCH POINT IN GUARD RAIL POST	172	0.73	2.4	AZ Mark Station 600031
MK # 2 PUNCH POINT IN GUARD RAIL POST	97	2.07	6.8	Geodetic Azimuth 255 39 44.4664
MK # 3 PUNCH POINT IN GUARD RAIL POST	95	3.91	12.8	Grid Azimuth 255 47 26.1627

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM</p> <p>Ref Mon # 2 MSB6</p> <p>Ref Mon # 3 P777</p>	<p style="text-align: center;">Comments</p> <p>**SUPERCEDED ELEVATION (84.713 m) BY 3-WIRE USING BENCH MARK "ADAMS 2 1970" ELEVATION= 77.842 METERS NAVD88 DATUM.</p> <p>*****UPDATE D ELEV. BY S5112 IN JUNE 2013 FOR JOB #BB0611 DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM D 287. **NOTE: WHEN UPDATED FROM PRE-HARN POSITION, ALSO CHANGED FROM</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600032	Date Monumented 10/21/1996	Monumented By AHTD	County PULASKI	Route 386	Job Number: 6905_5
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	615,099.7099	
Easting (M)	382,202.2080	
Elevation (M)*	72.343	
Northing (SFT)	2,018,039.6316	
Easting (SFT)	1,253,941.7441	
Elevation (SFT)*	237.345	

Convergence Angle	0	6	30.9750006
Scale Factor	0.999968089		
Elevation Adjust. Factor	0.9999886472		
Combined Adjust. Factor	0.9999567365		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER FENCE POST R/R CROSS TIE	256	1.22	4.0
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ADAMS 2
Ref Mon # 2	R 107
Ref Mon # 3	SALIPOINT

Comments
ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING NOAA BENCH MARK "N 287" A STAINLESS STEEL ROD MARK UNDER A LOGO CAP. ELEVATION = 78.600 METERS NAVD88 DATUM.

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 386 AND STATE HIGHWAY 365, IN WRIGHTVILLE, GO EAST ON STATE HIGHWAY 386 FOR 2.01 KM. (1.25 MI.) TO THE JUNCTION OF A GRAVEL ROAD (ASHER ROAD) TURN LEFT (NORTH) ON ASHER ROAD FOR 0.45 KM. (0.28 MI.) TO THE STATION ON THE LEFT. THE STATION IS 1.110 METERS EAST NORTHEAST OF A METAL WITNESS POST, 26.40 METERS WEST OF THE CENTER OF ASHER ROAD. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600032 1996" SET ON TOP OF AN IRON 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 36 21.0220560
Longitude	92 11 38.5554876
Ellipsoid Height (M):	45.196
Geoid Height (M):	-27.148

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600032A	Date Monumented 10/21/1996	Monumented By AHTD	County PULASKI	Route 386	Job Number: 6905_5
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	614,670.5969	
Easting (M)	382,086.8450	
Elevation (M)*	71.808	
Northing (SFT)	2,016,631.7833	
Easting (SFT)	1,253,563.2573	
Elevation (SFT)*	235.590	

Convergence Angle	0	6	33.4912614
Scale Factor	0.999967419		
Elevation Adjust. Factor	0.9999887311		
Combined Adjust. Factor	0.9999561505		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RAIL ROAD TIE CORNER POST	325	1.46	4.8
MK # 2	TELEPHONE JUNCTION BOX	85	18.95	62.2
MK # 3	WEST END OF AN R.C.P. (0.60m) DIA.	91	19.80	65.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ADAMS 2 Ref Mon # 2 R 107 Ref Mon # 3 SALIPORT	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING NOAA BENCH MARK "N 287" A STAINLESS STEEL ROD MARK UNDER A LOGO CAP. ELEVATION = 72.600 METERS NAVD88 DATUM.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600033	Date Monumented 12/2/1996	Monumented By AHTD	County PULASKI	Route 630	Job Number: 060816,061381
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	630,530.2269	
Easting (M)	368,886.4643	
Elevation (M)*	110.222	

Northing (SFT)	2,068,664.5861	
Easting (SFT)	1,210,255.0083	
Elevation (SFT)*	361.620	

Convergence Angle	0	11	24.6134914
Scale Factor	0.999995163		
Elevation Adjust. Factor	0.9999827029		
Combined Adjust. Factor	0.9999778660		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	34	44	40.6604940
Longitude	92	20	23.1818280
Ellipsoid Height:	82.661		
Grid Northing (Meters)	630,530.6320		
Grid Easting (Meters)	368,886.9208		

Location Description

 THE STATION IS LOCATED IN THE SOUTHEASTERN QUADRANT OF THE I-630 OVERPASS AND INTERCHANGE AT UNIVERSITY AVE. ABOUT 0.16 KM. (0.10 MI.) EAST OF UNIVERSITY AVE. ON THE SOUTH SIDE OF THE EAST BOUND ON RAMP ONTO I-630. 2.89 METERS SOUTH OF THE CENTER OF THE ON RAMP AND 1.34 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600033 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	"X" CUT IN TOP OF CONCRETE GUARD RAIL POST	66	7.61	25.0
MK # 2	"X" CUT IN TOP OF CONCRETE GUARD RAIL POST	345	1.63	5.3
MK # 3	"X" CUT IN TOP OF CONCRETE GUARD RAIL POST	279	4.23	13.9

AZ Mark Station	PAGIS 1004
Geodetic Azimuth	78 41 32.83131
Grid Azimuth	78 53 24.49231

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ADAMS 2	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM STATION 600027A ELEVATION = 123.691 METERS.
Ref Mon # 2 ROCKPORT	
Ref Mon # 3 PAGIS 1004	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600034	Date Monumented 12/2/1996	Monumented By AHTD	County PULASKI	Route 630	Job Number: 060816,061381,061510
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	630,495.7015	
Easting (M)	371,557.2993	
Elevation (M)*	106.383	
Northing (SFT)	2,068,551.3140	
Easting (SFT)	1,219,017.5728	
Elevation (SFT)*	349.025	

Convergence Angle	0	10	25.8432626
Scale Factor	0.999995112		
Elevation Adjust. Factor	0.9999833053		
Combined Adjust. Factor	0.9999784174		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	44	39.8158008
Longitude	92	18	38.1783276
Ellipsoid Height:	78.846		
Grid Northing (Meters)	630,496.1182		
Grid Easting (Meters)	371,557.7217		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	LIGHT POLE		264	41.70	136.8
MK # 2	CENTER OF MANHOLE		100	35.35	116.0
MK # 3	GUY POLE		14	16.78	55.1

Area Reference Monuments (used for Processing) Ref Mon # 1 ADAMS 2 Ref Mon # 2 ROCKPORT Ref Mon # 3 PAGIS 1004	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM STATION 600027A ELEVATION = 123.691 METERS.</td> </tr> </table>	Comments	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM STATION 600027A ELEVATION = 123.691 METERS.
Comments			
ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM STATION 600027A ELEVATION = 123.691 METERS.			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF THE BROADWAY STREET BRIDGE AND I-630 IN LITTLE ROCK GO WEST ON I-630 FOR 3.30 KM. (2.05 MI.) TO THE STATION ON THE RIGHT. 5.75 METERS NORTH OF THE BACK OF THE CONCRETE CURB ON THE NORTH (WEST BOUND) LANE OF I-630 AND 0.96 METERS SOUTH OF A WITNESS POST SET NEXT TO A CHAIN LINK FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600034 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	600034A
Geodetic Azimuth	267 13 49.66915
Grid Azimuth	267 24 40.46056

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600034A	Date Monumented 12/2/1996	Monumented By AHTD	County PULASKI	Route 630	Job Number: 060816,061510
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 45,625.4429		Latitude 34 44 38.9861628
Easting (M) 371,028.1110		Longitude 92 18 58.9424112
Elevation (M)* 115.740		Ellipsoid Height (M): 88.200
		Geoid Height (M): -27.540

Northing (SFT) 149,689.4739	Easting (SFT) 1,217,281.3942	Location Description
Elevation (SFT)* 379.724		<p>THE STATION IS LOCATED IN THE SOUTHEASTERN QUADRANT OF THE I-630 AND PINE STREET INTERCHANGE IN LITTLE ROCK. 24.10 METERS EAST OF THE CENTER OF PINE STREET, 5.65 METERS NORTH OF THE BACK OF THE CONCRETE CURB ON THE EIGHTH STREET ON RAMP TO I-630 AND 0.70 METERS SOUTH OF A WITNESS POST SET NEAR A CHAIN LINK FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600034A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Convergence Angle 0 11 2.7495960		
Scale Factor 1.000042573		
Elevation Adjust. Factor 0.9999818369		
Combined Adjust. Factor 1.0000244092		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SIGNAL LIGHT POLE	261	15.05	49.4
MK # 2	FENCE CORNER POST	276	9.15	30.0
MK # 3	FENCE CORNER POST	284	16.50	54.1

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ADAMS 2</p> <p>Ref Mon # 2 ROCKPORT</p> <p>Ref Mon # 3 PAGIS 1004</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM STATION 600027A ELEVATION = 123.691 METERS.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600035	Date Monumented 12/2/1996	Monumented By AHTD	County PULASKI	Route N/A	Job Number: 060816,061381
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	629,955.5856	
Easting (M)	374,746.6659	
Elevation (M)*	92.833	

Northing (SFT)	2,066,779.2838	
Easting (SFT)	1,229,481.3530	
Elevation (SFT)*	304.570	

Convergence Angle	0	9	15.6338987
Scale Factor	0.999994081		
Elevation Adjust. Factor	0.9999854317		
Combined Adjust. Factor	0.9999795128		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	44	22.5845520
Longitude	92	16	32.7349344
Ellipsoid Height:	65.333		
Grid Northing (Meters)	629,955.9949		
Grid Easting (Meters)	374,747.0943		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MANHOLE COVER	11	9.46	31.0
MK # 2	MANHOLE COVER	62	18.04	59.2
MK # 3	MANHOLE COVER	130	18.15	59.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ADAMS 2 Ref Mon # 2 ROCKPORT Ref Mon # 3 PAGIS 1004	ELEVATION BY 3-WIRE LEVELING USING AHTD BM DISK SET IN NW WINGWALL OF THE BROADWAY STREET BR. OVER I-630. ELEV = 96.983 m NAVD88 DATUM. BM ELEVATION WAS ARRIVED AT USING VERTCON TO CONVERT FROM NGVD29 DATUM TO NAVD88 DATUM.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600036	Date Monumented 6/16/1998	Monumented By AHTD	County PULASKI	Route 10	Job Number: 060884
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 58,792.5410		Latitude 34 51 42.9302160
Easting (M) 348,186.3410		Longitude 92 33 59.8609980
Elevation (M)* 97.754		Ellipsoid Height (M): 70.460
Northing (SFT) 192,888.5283		Geoid Height (M): -27.294
Easting (SFT) 1,142,341.3538		
Elevation (SFT)* 320.715		

Convergence Angle	0	19	46.9933361
Scale Factor	1.000014809		
Elevation Adjust. Factor	0.9999846594		
Combined Adjust. Factor	0.9999994682		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 113, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF WILLIAMS JUNCTION, GO EAST ON STATE HIGHWAY 10 FOR 9.17 KM (5.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 24.09 METERS NORTHWEST OF THE CENTER OF MAUELLE HARBOR ROAD, 11.677 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS SOUTHWEST OF OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600036 1998" SET ON TOP OF AN IRON ROD 0.73 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	GUY POLE	325	11.46	37.6	AZ Mark Station 600036A
MK # 2	WARNING SIGN FOR A UNDER GROUND CA BLE	95	9.31	30.5	Geodetic Azimuth 299 51 48.00505
MK # 3	0.50 METER RCP	140	15.87	52.1	Grid Azimuth 300 11 35.13046

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ROCKPORT Ref Mon # 2 SALIPOINT Ref Mon # 3 PJTC CAMPUS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600036A	Date Monumented 6/16/1998	Monumented By AHTD	County PULASKI	Route 10	Job Number: 060884
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 59,170.9500		Latitude 34 51 55.0871964
Easting (M) 347,535.9890		Longitude 92 34 25.5510552
Elevation (M)* 98.848		Ellipsoid Height (M): 71.529
		Geoid Height (M): -27.319

Northing (SFT) 194,130.0251		
Easting (SFT) 1,140,207.6572		
Elevation (SFT)* 324.304		

Convergence Angle 0 20 1.9423579		
Scale Factor 1.000014075		
Elevation Adjust. Factor 0.9999844878		
Combined Adjust. Factor 0.9999985625		

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 113, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF WILLIAMS JUNCTION, GO EAST ON STATE HIGHWAY 10 FOR 8.53 MI (5.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 51.560 METERS EAST OF THE CENTER OF A GRAVEL DRIVE DRIVEWAY, 11.633 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 4.90 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "600036A 1998" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	30	5.19	17.0
MK # 2				
MK # 3				

AZ Mark Station 600036	
Geodetic Azimuth 119 51 33.31997	
Grid Azimuth 120 11 35.13046	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ROCKPORT	
Ref Mon # 2 SALIPOINT	
Ref Mon # 3 PJTC CAMPUS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600037	Date Monumented 6/16/1998	Monumented By AHTD	County PULASKI	Route 10	Job Number: 060884
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 60,154.3409		Latitude 34 52 25.9080744
Easting (M) 342,059.6560		Longitude 92 38 1.4022780
Elevation (M)* 91.629		Ellipsoid Height (M): 64.185
Northing (SFT) 197,356.3668		Geoid Height (M): -27.444
Easting (SFT) 1,122,240.7214		
Elevation (SFT)* 300.619		

Convergence Angle 0 22 7.5459963	Scale Factor 1.000012227
Elevation Adjust. Factor 0.9999856206	Combined Adjust. Factor 0.9999978475

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHISELED "X" IN A CONCRETE GUARD RAIL POST	342	1.02	3.3
MK # 2	CHISELED "X" IN THE EAST END OF A HEAVY WALL	140	6.15	20.2
MK # 3	GOVERNMENT BENCH MARK "TT 22 RWS"	205	7.83	25.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ROCKPORT	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM USC&GS BENCHMARK "TT 22 RWS" ELEVATION = 89.941 METERS NAVD88 DATUM.
Ref Mon # 2 SALIPOINT	
Ref Mon # 3 PJTC CAMPUS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600038	Date Monumented 6/16/1998	Monumented By AHTD	County PULASKI	Route 10	Job Number: 060884
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 60,462.8640		Latitude 34 52 33.8132244
Easting (M) 332,726.7470		Longitude 92 44 8.9638188
Elevation (M)* 120.942		Ellipsoid Height (M): 93.317
		Geoid Height (M): -27.625

Northing (SFT) 198,368.5796		
Easting (SFT) 1,091,621.0024		
Elevation (SFT)* 396.791		

Convergence Angle	0	25	41.4297364
Scale Factor	1.000011757		
Elevation Adjust. Factor	0.9999810206		
Combined Adjust. Factor	0.9999927774		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 113, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF WILLIAMS JUNCTION, GO WEST ON STATE HIGHWAY 10 FOR 7.72 KM (4.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 55.85 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY, 34.95 METERS WEST OF THE CENTER OF A PAVED DRIVEWAY, 8.65 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600038 1998" SET ON TOP OF AN IRON ROD 0.61 METERS LONG DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	255	53.25	174.7
MK # 2	POWER POLE	333	48.35	158.6
MK # 3	0.39 METER CYPRESS TREE	64	23.55	77.3

AZ Mark Station	PAGIS 2093
Geodetic Azimuth	249 21 55.29640
Grid Azimuth	249 47 36.78464

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ROCKPORT</p> <p>Ref Mon # 2 SALIPORT</p> <p>Ref Mon # 3 PJTC CAMPUS</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM TBM-902 ON JOB 001837 ELEVATION = 119.884 METERS NAVD88 DATUM.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600039A	Date Monumented 9/21/1998	Monumented By AHTD	County PULASKI	Route 176	Job Number: R60080
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Vertical Determined By:</td> <td colspan="2">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td style="width: 10%;">34</td> <td style="width: 10%;">49</td> </tr> <tr> <td>Longitude</td> <td>92</td> <td>10</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>59.750</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-26.770</td> <td></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	34	49	Longitude	92	10	Ellipsoid Height (M):	59.750		Geoid Height (M):	-26.770	
Vertical Determined By:	LEVEL - Unkown Quality																						
Elevation Datum:	NAVD 88																						
Geoid Datum:																							
Latitude	34		49																				
Longitude	92		10																				
Ellipsoid Height (M):	59.750																						
Geoid Height (M):	-26.770																						
Horizontal Datum NAD 83 (1997)																							
Northing (M)	55,100.2929																						
Easting (M)	383,429.9000																						
Elevation (M)*	86.196																						
Northing (SFT)	180,774.8776																						
Easting (SFT)	1,257,969.5969																						
Elevation (SFT)*	282.795																						
Convergence Angle	0 6 19.4507279																						
Scale Factor	1.000021959																						
Elevation Adjust. Factor	0.9999864732																						
Combined Adjust. Factor	1.0000084319																						

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks												
Description			Azimuth	Distance								
				Meters	Feet							
MK # 1	CONCRETE GUARD RAIL POST		173	5.54	18.2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">AZ Mark Station</td> <td>600039</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>49 31 12.811296</td> </tr> <tr> <td>Grid Azimuth</td> <td>49 37 32.197066</td> </tr> </table>	AZ Mark Station	600039	Geodetic Azimuth	49 31 12.811296	Grid Azimuth	49 37 32.197066
AZ Mark Station	600039											
Geodetic Azimuth	49 31 12.811296											
Grid Azimuth	49 37 32.197066											
MK # 2	CONCRETE GUARD RAIL POST		187	1.82	6.0							
MK # 3	CONCRETE GUARD RAIL POST		323	2.23	7.3							

Area Reference Monuments (used for Processing)	Comments						
<table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ADAMS 2</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ROCKPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SEARPORT</td> </tr> </table>	Ref Mon # 1	ADAMS 2	Ref Mon # 2	ROCKPORT	Ref Mon # 3	SEARPORT	3-wire levels ran by S5101 in Job R60080 in 1999-2000 as per Kenneth Scott Mar 2005 from NGS BM
Ref Mon # 1	ADAMS 2						
Ref Mon # 2	ROCKPORT						
Ref Mon # 3	SEARPORT						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600040	Date Monumented 6/26/2000	Monumented By AHTD	County PULASKI	Route I40	Job Number: 060994
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	50,155.4187	
Easting (M)	388,194.9845	
Elevation (M)*	81.516	
Northing (SFT)	164,551.5695	
Easting (SFT)	1,273,603.0450	
Elevation (SFT)*	267.440	

Convergence Angle	0	4	30.1834276
Scale Factor	1.000032390		
Elevation Adjust. Factor	0.9999872077		
Combined Adjust. Factor	1.0000195972		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN TOP OF GUARD RAIL POS	80	1.17	3.8
MK # 2	PUNCH MARK IN TOP OF GUARD RAIL POS	146	4.16	13.6
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ROCKPORT	ELEVATION BY 3-WIRE BY S5111 FROM NGS POINT GALLAWAY 2 RM 1
Ref Mon # 2 PAGIS 2001	
Ref Mon # 3 R 107	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600040A	Date Monumented 6/26/2000	Monumented By AHTD	County PULASKI	Route I40	Job Number: 060994
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	49,981.4168	
Easting (M)	387,711.8469	
Elevation (M)*	74.873	
Northing (SFT)	163,980.6983	
Easting (SFT)	1,272,017.9510	
Elevation (SFT)*	245.645	

Convergence Angle	0	4	41.2356381
Scale Factor	1.000032770		
Elevation Adjust. Factor	0.9999882502		
Combined Adjust. Factor	1.0000210198		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHAIN LINK FENCE CORNER POST	247	7.25	23.8
MK # 2	WATER METER	101	4.70	15.4
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 ROCKPORT Ref Mon # 2 PAGIS 2001 Ref Mon # 3 R 107	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3-WIRE BY S5111 FROM NGS POINT GALLAWAY 2 RM 1</td> </tr> </table>	Comments	ELEVATION BY 3-WIRE BY S5111 FROM NGS POINT GALLAWAY 2 RM 1
Comments			
ELEVATION BY 3-WIRE BY S5111 FROM NGS POINT GALLAWAY 2 RM 1			

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF I-40 AND DICK JETER ROAD (EXIT 161), LOCATED IN GALLOWAY, GO SOUTH ON DICK JETER ROAD FOR 0.32 KM (0.20 MI) TO THE JUNCTION OF MABELLINE ROAD ON THE RIGHT, GO RIGHT WEST ON MAYBELLINE ROAD FOR 0.64 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.30 METERS SOUTH OF THE CENTER OF MAYBELLINE ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600040A 2000" SET ON TOP OF AN IRON ROAD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 513.498 METERS.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600041	Date Monumented 3/5/2001	Monumented By AHTD	County PULASKI	Route 430	Job Number: 905_11,061148,060657,06138
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	631,961.0829	
Easting (M)	364,223.8621	
Elevation (M)*	134.697	
Northing (SFT)	2,073,358.9861	
Easting (SFT)	1,194,957.7876	
Elevation (SFT)*	441.919	

Convergence Angle	0	13	7.3273263
Scale Factor	0.999997945		
Elevation Adjust. Factor	0.9999788621		
Combined Adjust. Factor	0.9999768071		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	44	5.20	17.1
MK # 2	SOUTHEAST CORNER OF BRIDGE	340	8.22	27.0
MK # 3	NORTH POST TO A SIGN	252	11.70	38.4

Area Reference Monuments (used for Processing) Ref Mon # 1 ROCKPORT Ref Mon # 2 PAGIS 2074 Ref Mon # 3 AHTD LITTLE ROCK	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.</td> </tr> </table>	Comments	3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.
Comments			
3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.			

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF I-430 AND I-630, LOCATED ON THE WEST SIDE OF LITTLE ROCK, GO NORTH ON I-430 FOR 1.05 KM (0.65 MI) TO A PEDESTRAIN BRIDGE AND THE STATION ON THE RIGHT SET ON TOP OF A HIGH BANK. THE STATION IS 19.26 METERS EAST OF THE EAST EDGE OF CONCRETE OF THE NORTH BOUND LANE, 9.10 METERS SOUTH OF THE CENTER OF A SIDEWALK AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600041 2001) SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 1201.886 METERS.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600041A	Date Monumented 12/17/2012	Monumented By AHTD	County Pulaski	Route 630	Job Number: 061381
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	630,788.0238	
Easting (M)	364,000.2860	
Elevation (M)*		
Northing (SFT)	2,069,510.3748	
Easting (SFT)	1,194,224.2717	
Elevation (SFT)*		

Convergence Angle	0	13	12.1483854
Scale Factor	0.999995632		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	44	48.2335080
Longitude	34	44	48.2335080
Ellipsoid Height:	99.254		
Grid Northing (Meters)	2,058,917.5866		
Grid Easting (Meters)	5,373,515.3908		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Flared End Section		301	5.33	17.5
MK # 2	NorthWest Pole of sign over I-430 off ramp		89	28.96	95.0
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>THIS POINT WAS RESET AND HAS NOT HAD LEVELS RAN TO IT. IT ONLY HAS A GPS DERIVED ELEV. OF 405.6439 U.S. FEET.</td> </tr> </table>	Comments	THIS POINT WAS RESET AND HAS NOT HAD LEVELS RAN TO IT. IT ONLY HAS A GPS DERIVED ELEV. OF 405.6439 U.S. FEET.
Comments			
THIS POINT WAS RESET AND HAS NOT HAD LEVELS RAN TO IT. IT ONLY HAS A GPS DERIVED ELEV. OF 405.6439 U.S. FEET.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600042	Date Monumented 8/28/2001	Monumented By AHTD	County PULASKI	Route N/A	Job Number: 060987,061318
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	631,674.5114
Easting (M)	375,930.5935
Elevation (M)*	78.364
Northing (SFT)	2,072,418.7928
Easting (SFT)	1,233,365.6222
Elevation (SFT)*	257.099

Convergence Angle	0	8	49.6818930
Scale Factor	0.999997451		
Elevation Adjust. Factor	0.9999877023		
Combined Adjust. Factor	0.9999851533		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I 30 AND I 40 LOCATED IN NORTH LITTLE ROCK, GO SOUTHWEST ON I 30 FOR 1.931 KM (1.2 MI) TO EXIT 141 B (BROADWAY), TO THE RIGHT, CONTINUE ON DOWN THE RAMP TO CYPRESS STREET AND CONTINUE DOWN CYPRESS STREET 0.644 KM (0.4 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.30 METERS WEST OF THE CENTER OF I 30 WEST BOUND ON RAMP, 6.80 METERS EAST OF THE CENTER OF CYPRESS STREET, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600042 2001" SET OF TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 613.216 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	231	12.50	41.0
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ROCKPORT</p> <p>Ref Mon # 2 AHTD LITTLE ROCK 1</p> <p>Ref Mon # 3 PAGIS 1001</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BY 3-WIRE BY S5111 FROM NGS TS 6 B RM</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600042A	Date Monumented 8/28/2001	Monumented By AHTD	County PULASKI	Route I 30	Job Number: 060987
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	47,439.1449	
Easting (M)	375,970.5990	
Elevation (M)*	81.244	
Northing (SFT)	155,639.9279	
Easting (SFT)	1,233,496.8736	
Elevation (SFT)*	266.548	

Convergence Angle	0	9	9.7983554
Scale Factor	1.000038437		
Elevation Adjust. Factor	0.9999872503		
Combined Adjust. Factor	1.0000256868		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL GUARD RAIL POST WITH PUNCH M APK	113	8.05	26.4
MK # 2	METAL GUARD RAIL POST WITH PUNCH M APK	140	11.80	38.7
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ROCKPORT Ref Mon # 2 AHTD LITLE ROCK 1 Ref Mon # 3 PAGIS 1001	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3-WIRE BY S5111 FROM NGS TS 6 B RM</td> </tr> </table>	Comments	ELEVATION BY 3-WIRE BY S5111 FROM NGS TS 6 B RM
Comments			
ELEVATION BY 3-WIRE BY S5111 FROM NGS TS 6 B RM			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF I 30 AND I 40 LOCATED IN NORTH LITTLE ROCK, GO SOUTHWEST ON I 30 FOR 1.931 KM (1.2 MI) TO EXIT 141B (BROADWAY), TO THE RIGHT, CONTINUE DOWN RAMP 0.05 MI TO THE STATION ON THE LEFT. THE STATION IS 18.55 METERS EAST OF THE CENTER OF THE BROADWAY EXIT RAMP, 11.80 METERS WEST OF THE WEST EDGE OF I 30 WEST BOUND LANE, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600042A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 613.216 METERS.

AZ Mark Station	600042
Geodetic Azimuth	183 40 59
Grid Azimuth	183 50 09

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600043	Date Monumented 8/28/2001	Monumented By AHTD	County PULASKI	Route 165	Job Number: 061117, 060987
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 46,467.0910		Latitude 34 45 7.1170920
Easting (M) 380,408.0940		Longitude 92 12 50.2700148
Elevation (M)* 78.489		Ellipsoid Height (M): 51.771
Northing (SFT) 152,450.7811		Geoid Height (M): -26.564
Easting (SFT) 1,248,055.5551		
Elevation (SFT)* 257.509		

Convergence Angle	0	7	28.2194500
Scale Factor	1.000040602		
Elevation Adjust. Factor	0.9999876827		
Combined Adjust. Factor	1.0000282842		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ROCKPORT	ELEVATION BY 3-WIRE BY S5111 FROM NGS TS 6 B RM
Ref Mon # 2 AHTD LITTLE ROCK 1	
Ref Mon # 3 PAGIS 1001	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600043A	Date Monumented 8/28/2001	Monumented By AHTD	County PULASKI	Route 165	Job Number: 061117, 060987
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 46,202.4899		Latitude 34 44 58.5712104
Easting (M) 380,988.9640		Longitude 92 12 27.4108212
Elevation (M)* 78.491		Ellipsoid Height (M): 51.789
Northing (SFT) 151,582.6689		Geoid Height (M): -26.558
Easting (SFT) 1,249,961.2927		
Elevation (SFT)* 257.516		

Convergence Angle 0 7 14.9177051	
Scale Factor 1.000041199	
Elevation Adjust. Factor 0.9999876824	
Combined Adjust. Factor 1.0000288808	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 165 LOCATED IN ROSE CITY, GO EAST ON STATE HIGHWAY 165 FOR 1.287 KM (0.80 MI) TO THE STATION ON THE LEFT. THE STATION IS 33.80 METERS EAST OF THE CENTER OF MILLS STREET, 10.90 METERS NORTH OF THE CENTER OF STATE HIGHWAY 165, 8.00 METERS SOUTH OF THE SOUTH RAIL, AND 1.00 METER NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600043A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 638.278 METERS.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ROCKPORT	ELEVATION BY 3-WIRE BY S5111 FROM NGS TS 6 B RM
Ref Mon # 2 AHTD LITTLE ROCK 1	
Ref Mon # 3 PAGIS 1001	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600044	Date Monumented 8/28/2001	Monumented By AHTD	County PULASKI	Route N/A	Job Number: 061026
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	59,212.1530	
Easting (M)	390,035.5290	
Elevation (M)*	84.969	
Northing (SFT)	194,265.2053	
Easting (SFT)	1,279,641.5647	
Elevation (SFT)*	278.769	

Convergence Angle	0	3	48.2880206
Scale Factor	1.000013706		
Elevation Adjust. Factor	0.9999866658		
Combined Adjust. Factor	1.0000003716		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 161 AND STATE HIGHWAY 294 IN JACKSONVILLE, GO NORTH ON STATE HIGHWAY 161(SOUTH FIRST STREET) FOR 1.931 KM (1.2 MI) TO THE JUNCTION OF SHORT STREET TO THE RIGHT, GO RIGHT ON SHORT STREET FOR 0.129 KM (0.08 MI) TO THE STATION ON THE RIGHT. THE STATION IS 28.80 METERS SOUTHEAST OF THE CENTER OF EAST CENTER STREET, 14.70 METERS SOUTHEAST OF THE CENTER OF SHORT STREET, 9.35 METERS NORTHWEST OF THE NEAR RAIL, AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600044 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS RUN BY CREW S5102 FROM USC & GS BENCH MARK RV 154 PID # EJ 0040. THE SHOT DISTANCE IS 302.778 METERS.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CONCRETE PIPE	51	21.90	71.9	
MK # 2	LIGHT POLE	340	10.70	35.1	
MK # 3	POWER POLE	232	20.70	67.9	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 430013 Ref Mon # 2 ROCKPORT Ref Mon # 3 SEARPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600044A	Date Monumented 8/28/2001	Monumented By AHTD	County PULASKI	Route 161	Job Number: 061026
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	58,998.7030	
Easting (M)	389,820.7870	
Elevation (M)*	85.749	
Northing (SFT)	193,564.9114	
Easting (SFT)	1,278,937.0320	
Elevation (SFT)*	281.328	

Convergence Angle	0	3	53.2022712
Scale Factor	1.000014124		
Elevation Adjust. Factor	0.9999865434		
Combined Adjust. Factor	1.0000006672		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	FIRE HYDRANT	283	28.00	91.9	600044
MK # 2	CORNER OF ROCK AND BLOCK BUILDING	325	29.15	95.6	45 06 29
MK # 3					45 10 22

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 430013	
Ref Mon # 2 ROCKPORT	
Ref Mon # 3 SEARPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600045	Date Monumented 12/19/2001	Monumented By AHTD	County PULASKI	Route I 440	Job Number: 0, R60101,061261 061475,BE
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	55,773.6402	0.0020	
Easting (M)	386,079.2353	0.0020	
Elevation (M)*	80.876		

Northing (SFT)	182,984.0179		
Easting (SFT)	1,266,661.6245		
Elevation (SFT)*	265.342		

Convergence Angle	0	5	18.8056176
Scale Factor	1.000020573		
Elevation Adjust. Factor	0.9999873080		
Combined Adjust. Factor	1.0000078808		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	34	50	9.4561080
Longitude	92	9	7.8714576
Ellipsoid Height:	54.162		
Grid Northing (Meters)	55,773.6580		
Grid Easting (Meters)	386,079.2220		

Location Description

THIS STATION IS LOCATED AT THE NORTH END OF THE NEWLY CONSTRUCTED UNION PACIFIC RAILROAD OVERPASS FOR I 440. IT IS AT THE NORTH END OF BRIDGE NUMBER A6754. THE STATION IS 0.85 METERS WEST OF THE BRIDGE WALL AND 0.65 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600045 2001" SET OF TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 597.895 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	AHTD BENCH MARK CAP IN OVERPASS WA	9	2.61	8.6
MK # 2				
MK # 3				

AZ Mark Station	600045A
Geodetic Azimuth	160 32 36
Grid Azimuth	160 37 54

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARWY</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARBT</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	ARWY	Ref Mon # 3	ARBT	Comments <p>3wire levels ran by crew S5113 on Job R60081 in March 05 from NGS RV159. Verified in May 07 by crews S5104, S5108, & S5103 from NGS points K290 & J290 to G10 & RV159. COORDINATES WERE UPDATED DURING BB0620 IN 11/16.</p>
Ref Mon # 1	ARLR						
Ref Mon # 2	ARWY						
Ref Mon # 3	ARBT						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600045A	Date Monumented 12/19/2001	Monumented By AHTD	County PULASKI	Route I 440	Job Number: 060110, BB0620
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	55,209.6898	0.0020	
Easting (M)	386,277.4831	0.0020	
Elevation (M)*	79.278		

Northing (SFT)	181,133.7906		
Easting (SFT)	1,267,312.0425		
Elevation (SFT)*	260.099		

Convergence Angle	0	5	14.2457862
Scale Factor	1.000021724		
Elevation Adjust. Factor	0.9999875588		
Combined Adjust. Factor	1.0000092825		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	34	49	51.1621860
Longitude	92	9	0.0338292
Ellipsoid Height:	52.547		
Grid Northing (Meters)	55,209.5960		
Grid Easting (Meters)	386,277.5080		

Location Description

 THIS STATION IS LOCATED AT THE SOUTH END OF THE NEWLY CONSTRUCTED UNION PACIFIC RAILROAD OVERPASS FOR I 440. IT IS AT THE SOUTH END OF THE SOUTH BOUND TRAFFIC LANES. THE STATION IS 0.61 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600045A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 597.895 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH EAST END OF RAILROAD OVERPAS	126	2.95	9.7
MK # 2				
MK # 3				

AZ Mark Station	600045
Geodetic Azimuth	340 32 40
Grid Azimuth	340 37 54

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARWY Ref Mon # 3 ARBT	Comments 3wire levels ran by crew S5113 on Job R60081 in March 05 from NGS RV159. COORDINATES WERE UPDATED DURING BB0620 IN 11/16.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600046	Date Monumented 12/19/2001	Monumented By AHTD	County PULASKI	Route 107	Job Number: 060110, R60101
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	58,919.9510	
Easting (M)	381,830.8360	
Elevation (M)*	76.238	
Northing (SFT)	193,306.5392	
Easting (SFT)	1,252,723.3344	
Elevation (SFT)*	250.123	

Convergence Angle	0	6	56.2452720
Scale Factor	1.000014303		
Elevation Adjust. Factor	0.9999880360		
Combined Adjust. Factor	1.0000023388		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF GUARD RAIL	76	2.34	7.7
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ROCKPORT Ref Mon # 2 SEARPORT Ref Mon # 3 AHTD LITTLE ROCK	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels ran by crew S5104, S5108, & S5113 from NGS Marks J 290 & K 290 (430-40 interchange on railroad track) to G10 & RV159 (67/167 - 440 interchange on railroad track) in May 07 in job R60101.</td> </tr> </table>	Comments	3-Wire Levels ran by crew S5104, S5108, & S5113 from NGS Marks J 290 & K 290 (430-40 interchange on railroad track) to G10 & RV159 (67/167 - 440 interchange on railroad track) in May 07 in job R60101.
Comments			
3-Wire Levels ran by crew S5104, S5108, & S5113 from NGS Marks J 290 & K 290 (430-40 interchange on railroad track) to G10 & RV159 (67/167 - 440 interchange on railroad track) in May 07 in job R60101.			

Location Description
TO REACH THE STATION FROM THE UNITED STATES POST OFFICE LOCATED IN GRAVEL RIDGE, ARKANSAS, GO EAST ON JACKSONVILLE CATO ROAD FOR 0.161 KM (0.10 MI) TO THE JUNCTION OF STATE HIGHWAY 107, TURN SOUTH (RIGHT) ONTO STATE HIGHWAY 107 AND GO SOUTH ON STATE HIGHWAY 107 FOR 0.869 KM (.54 MI) TO THE STATION ON THE RIGHT. THE STATION IS 25.00 METERS SOUTH OF THE CENTER OF A PAVED DRIVE, 6.00 METERS WEST OF THE WEST EDGE OF THE SOUTH BOUND LANE OF STATE HIGHWAY 107, AND 1.20 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600046 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 706.196 METERS.

AZ Mark Station	600046A
Geodetic Azimuth	197 22 05
Grid Azimuth	197 29 01

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600046A	Date Monumented 12/19/2001	Monumented By AHTD	County PULASKI	Route 107	Job Number: 060110, R60101
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	58,246.3700	
Easting (M)	381,618.6690	
Elevation (M)*	84.815	
Northing (SFT)	191,096.6322	
Easting (SFT)	1,252,027.2499	
Elevation (SFT)*	278.265	

Convergence Angle	0	7	1.0743821
Scale Factor	1.000015629		
Elevation Adjust. Factor	0.9999866899		
Combined Adjust. Factor	1.0000023187		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE UNITED STATES POST OFFICE LOCATED IN GRAVEL RIDGE, ARKANSAS, GO EAST ON JACKSONVILLE CATO ROAD FOR 0.161 KM (0.10 MI) TO THE JUNCTION OF STATE HIGHWAY 107, TURN SOUTH (RIGHT) ONTO STATE HIGHWAY 107 AND GO SOUTH ON STATE HIGHWAY 107 FOR 1.577 KM (.98 MI) TO THE STATION ON THE RIGHT. THE STATION IS 22.50 METERS WEST OF THE CENTER OF STATE HIGHWAY 107 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600046A 2001" SET ON TOP OF AN IRON ROD 0.72 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 706.196 METERS.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ROCKPORT</p> <p>Ref Mon # 2 SEARPORT</p> <p>Ref Mon # 3 AHTD LITTLE ROCK</p>	<p style="text-align: center;">Comments</p> <p>3-Wire Levels ran by crew S5104, S5108, & S5113 from NGS Marks J 290 & K 290 (430-40 interchange on railroad track) to G10 & RV159 (67/167 - 440 interchange on railroad track) in May 07 in job R60101.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600047	Date Monumented 12/19/2001	Monumented By AHTD	County PULASKI	Route 107	Job Number: 060110,061738
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	60,667.3731 0.0030
Easting (M)	383,203.8173 0.0020
Elevation (M)*	80.913

Northing (SFT)	199,039.5399
Easting (SFT)	1,257,227.8573
Elevation (SFT)*	265.462

Convergence Angle	0 6 24.8658183
Scale Factor	1.000010911
Elevation Adjust. Factor	0.9999873023
Combined Adjust. Factor	0.9999982132

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	52	48.0978480
Longitude	92	11	1.3969464
Ellipsoid Height:	54.020		
Grid Northing (Meters)	60,667.3670		
Grid Easting (Meters)	383,203.7960		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF GUARD RAIL	319	1.50	4.9
MK # 2	PUNCH MARK IN METAL GUARD RAIL POS	67	15.30	50.2
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ROCKPORT Ref Mon # 2 SEARPORT Ref Mon # 3 AHTD LITTLE ROCK	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM WAX 1939 DURING JOB 061738 IN MAY 2021.</td> </tr> </table>	Comments	ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM WAX 1939 DURING JOB 061738 IN MAY 2021.
Comments			
ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM WAX 1939 DURING JOB 061738 IN MAY 2021.			

Location Description
TO REACH THE STATION FROM THE UNITED STATES POST OFFICE LOCATED IN GRAVEL RIDGE, ARKANSAS, GO EAST ON JACKSONVILLE CATO ROAD FOR 0.161 KM (0.10 MI) TO THE JUNCTION OF STATE HIGHWAY 107, TURN NORTH (LEFT) ON STATE HIGHWAY 107 AND GO NORTH ON STATE HIGHWAY 107 FOR 1.770 KM (1.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.80 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 107 AND 0.70 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600047 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 563.956 METERS.

AZ Mark Station	600047A
Geodetic Azimuth	71 55 57
Grid Azimuth	72 02 22

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600047A	Date Monumented 12/19/2001	Monumented By AHTD	County PULASKI	Route 107	Job Number: 060110,061738
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	60,841.2693 0.0030
Easting (M)	383,740.2942 0.0020
Elevation (M)*	101.700
Northing (SFT)	199,610.0644
Easting (SFT)	1,258,987.9486
Elevation (SFT)*	333.661

Convergence Angle	0 6 12.5802726
Scale Factor	1.000010576
Elevation Adjust. Factor	0.9999840402
Combined Adjust. Factor	0.9999946160

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34 52 53.7729708		
Longitude	92 10 40.2843756		
Ellipsoid Height:	74.774		
Grid Northing (Meters)	60,841.2700		
Grid Easting (Meters)	383,740.2660		

Location Description			
<p>TO REACH THE STATION FROM THE UNITED STATES POST OFFICE LOCATED IN GRAVEL RIDGE, ARKANSAS, GO EAST ON JACKSONVILLE CATO ROAD FOR 0.161 KM (0.10 MI) TO THE JUNCTION OF STATE HIGHWAY 107, TURN NORTH (LEFT) ON STATE HIGHWAY 107 AND GO NORTH ON STATE HIGHWAY 107 FOR 2.285 KM (1.42 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.70 METERS SOUTH EAST OF THE CENTER OF STATE HIGHWAY 107 AND 0.69 METERS NORTH WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600047A 2001" SET ON TOP OF AN IRON ROD 0.50 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. NOTE, THE CAP WAS BENT WHEN DRIVEN, ON THIS STATION. THE SHOT DISTANCE IS 563.956 METERS.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ROCKPORT</p> <p>Ref Mon # 2 SEARPORT</p> <p>Ref Mon # 3 AHTD LITTLE ROCK</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM WAX 1939 DURING JOB 061738 IN MAY 2021.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600048	Date Monumented 12/19/2001	Monumented By AHTD	County PULASKI	Route 365	Job Number: 10, 061190, R60101,012119,06
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	54,296.6699	
Easting (M)	370,494.4119	
Elevation (M)*	90.994	
Northing (SFT)	178,138.3245	
Easting (SFT)	1,215,530.4164	
Elevation (SFT)*	298.535	

Convergence Angle	0	11	15.6079141
Scale Factor	1.000023685		
Elevation Adjust. Factor	0.9999857203		
Combined Adjust. Factor	1.0000094050		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	49	20.3089260
Longitude	92	19	21.0406296
Ellipsoid Height:	13.000		
Grid Northing (Meters)	54,296.6709		
Grid Easting (Meters)	370,494.3850		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH EAST CORNER RED METAL BUILDING	284	20.60	67.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ROCKPORT	3-Wire Levels ran by crew S5104 from NGS marks J 290 & K 290 on 2-21-07 in Job 061190. Verified in May 07 by crews S5104, S5108, & S5103 from NGS points K290 & J290 to G10 & RV159.
Ref Mon # 2 SEARPORT	
Ref Mon # 3 AHTD LITTLE ROCK	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600048A	Date Monumented 12/19/2001	Monumented By AHTD	County PULASKI	Route 365	Job Number: 10,061190,R60101,012119,06
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	54,674.5848	
Easting (M)	370,072.9372	
Elevation (M)*	95.003	
Northing (SFT)	179,378.2003	
Easting (SFT)	1,214,147.6281	
Elevation (SFT)*	311.689	

Convergence Angle	0	11	25.2873613
Scale Factor	1.000022906		
Elevation Adjust. Factor	0.9999850912		
Combined Adjust. Factor	1.0000079968		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	49	32.5266924
Longitude	92	19	37.6747608
Ellipsoid Height:	68.206		
Grid Northing (Meters)	54,674.5740		
Grid Easting (Meters)	370,072.9130		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	GUY POLE		141	22.00	72.2
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ROCKPORT Ref Mon # 2 SEARPORT Ref Mon # 3 AHTD LITTLE ROCK	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels ran by crew S5104 from NGS marks J 290 & K 290 on 2-21-07 in Job 061190. Verified in May 07 by crews S5104, S5108, & S5103 from NGS points K290 & J290 to G10 & RV159.</td> </tr> </table>	Comments	3-Wire Levels ran by crew S5104 from NGS marks J 290 & K 290 on 2-21-07 in Job 061190. Verified in May 07 by crews S5104, S5108, & S5103 from NGS points K290 & J290 to G10 & RV159.
Comments			
3-Wire Levels ran by crew S5104 from NGS marks J 290 & K 290 on 2-21-07 in Job 061190. Verified in May 07 by crews S5104, S5108, & S5103 from NGS points K290 & J290 to G10 & RV159.			

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 176 AND STATE HIGHWAY 365 LOCATED ON THE NORTH SIDE OF NORTH LITTLE ROCK, GO NORTH ON STATE HIGHWAY 365 FOR 6.276 KM (3.9 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.60 METERS WEST OF THE CENTER OF STATE HIGHWAY 365 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600048A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 566.077 METERS.	

AZ Mark Station	600048
Geodetic Azimuth	131 41 24
Grid Azimuth	131 52 49

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600049	Date Monumented 12/19/2001	Monumented By AHTD	County PULASKI	Route I 40	Job Number: 060110, 8640_5,012119
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	65,579.6170	
Easting (M)	362,764.1500	
Elevation (M)*	84.187	
Northing (SFT)	215,155.7934	
Easting (SFT)	1,190,168.7155	
Elevation (SFT)*	276.204	

Convergence Angle	0	14	13.6800012
Scale Factor	1.000001901		
Elevation Adjust. Factor	0.9999867885		
Combined Adjust. Factor	0.9999886894		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF GUARD RAIL	235	2.50	8.2
MK # 2	PUNCH MARK IN METAL GUARD RAIL POS	331	13.55	44.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ROCKPORT	ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.
Ref Mon # 2 SEARPORT	
Ref Mon # 3 AHTD LITTLE ROCK	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600049A	Date Monumented 12/19/2001	Monumented By AHTD	County PULASKI	Route I 40	Job Number: 060110,8640_5,012119
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	64,990.3890	
Easting (M)	362,865.3800	
Elevation (M)*	83.620	
Northing (SFT)	213,222.6346	
Easting (SFT)	1,190,500.8342	
Elevation (SFT)*	274.343	

Convergence Angle	0	14	11.3034444
Scale Factor	1.000002964		
Elevation Adjust. Factor	0.9999868775		
Combined Adjust. Factor	0.9999898414		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE PULASKI/FAULKNER COUNTY LINE ON I 40, GO EAST ON I 40 FOR 1.609 KM (1.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.00 METERS WEST OF THE EDGE OF THE PAVEMENT OF THE I 40 WEST BOUND LANE, 6.75 METERS EAST OF THE EDGE OF THE PAVEMENT OF THE I 40 EAST BOUND LANE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600049A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 597.861 METERS. ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	600049
Geodetic Azimuth	350 00 55
Grid Azimuth	350 15 06

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ROCKPORT	ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.
Ref Mon # 2 SEARPORT	
Ref Mon # 3 AHTD LITTLE ROCK	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600050	Date Monumented 12/19/2001	Monumented By AHTD	County PULASKI	Route N/A	Job Number: 060110, R60101,061303
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	56,358.1370	
Easting (M)	376,401.3680	
Elevation (M)*	172.418	
Northing (SFT)	184,901.6545	
Easting (SFT)	1,234,910.1548	
Elevation (SFT)*	565.674	

Convergence Angle	0	9	0.4770248
Scale Factor	1.000019428		
Elevation Adjust. Factor	0.9999729428		
Combined Adjust. Factor	0.9999923702		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TELEPHONE JUNCTION BOX	170	7.83	25.7	ROCKPORT
MK # 2	MAN HOLE COVER	135	2.20	7.2	178 54 59
MK # 3					179 03 59

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ROCKPORT	3-Wire Levels ran by crew S5104, S5108, & S5113 from NGS Marks J 290 & K 290 (430-40 interchange on railroad track) to G10 & RV159 (67/167 - 440 interchange on railroad track) in May 07 in job R60101.
Ref Mon # 2 SEARPORT	
Ref Mon # 3 AHTD LITTLE ROCK	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600051 Reset	Date Monumented 7/27/2002	Monumented By AHTD	County PULASKI	Route I-30	Job Number: 60209,061202, 061390
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	619,878.7448 0.0020
Easting (M)	361,761.3632 0.0020
Elevation (M)*	96.953 0.0015
Northing (SFT)	2,033,718.8486
Easting (SFT)	1,186,878.7391
Elevation (SFT)*	318.087

Convergence Angle	0 14 0.4356838
Scale Factor	0.999975761
Elevation Adjust. Factor	0.9999847851
Combined Adjust. Factor	0.9999605465

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	38	54.1399272
Longitude	92	25	1.6119156
Ellipsoid Height:	70.825		
Grid Northing (Meters)	619,878.9296		
Grid Easting (Meters)	361,761.2492		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK TOP OF STEEL GUARDRAIL POST	5	7.10	23.3
MK # 2	SOUTH END OF HEADWALL	315	1.85	6.1
MK # 3	SOUTH END OF GUARDRAIL	100	3.60	11.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ADAMS 2 Ref Mon # 2 ROCKPORT Ref Mon # 3 SALIPORT	3-wire levels ran by crew S5105 from 1st order NGS marks LR 1 NEW and R 320 in October 2008. ***** DO NOT USE, MONUMENT WAS DISPLACED BY A CONSTRUCTION CREW PLACING NEW DITCH PAVING AND RESET NEARBY. ***** Reset in 06/2017 by crew s5113 during job 061390. Elevation based on digital levels from

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600051A	Date Monumented 7/27/2002	Monumented By AHTD	County PULASKI	Route I-30	Job Number: 60209,061202,061332,061390
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	619,846.3663 0.0020
Easting (M)	361,255.2118 0.0020
Elevation (M)*	98.963 0.0012
Northing (SFT)	2,033,612.6201
Easting (SFT)	1,185,218.1407
Elevation (SFT)*	324.680

Convergence Angle	0 14 11.5571720
Scale Factor	0.999975703
Elevation Adjust. Factor	0.9999844698
Combined Adjust. Factor	0.9999601732

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34 38 53.0165652		
Longitude	92 25 21.4808268		
Ellipsoid Height:	72.601		
Grid Northing (Meters)	619,846.3895		
Grid Easting (Meters)	361,255.1447		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK TOP OF WEST GATEPOST	92	10.25	33.6
MK # 2	CENTER OF MANHOLE COVER	131	19.50	64.0
MK # 3	CENTER OF MANHOLE COVER	285	27.90	91.5

Area Reference Monuments (used for Processing) Ref Mon # 1 ADAMS 2 Ref Mon # 2 ROCKPORT Ref Mon # 3 SALIPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> 3-wire levels ran by crew S5105 from 1st order NGS marks LR 1 NEW and R 320 in October 2008. Updated in 06/2017 by crew S5113 during job 061390. Elevation based on digital levels from NGS benchmark M 338. </td> </tr> </table>	Comments	3-wire levels ran by crew S5105 from 1st order NGS marks LR 1 NEW and R 320 in October 2008. Updated in 06/2017 by crew S5113 during job 061390. Elevation based on digital levels from NGS benchmark M 338.
Comments			
3-wire levels ran by crew S5105 from 1st order NGS marks LR 1 NEW and R 320 in October 2008. Updated in 06/2017 by crew S5113 during job 061390. Elevation based on digital levels from NGS benchmark M 338.			

Location Description
TO REACH THE STATION FROM THE VIMY RIDGE ROAD OVERPASS ON I-30 GO WEST 0.30 MILES TO THE STATION ON THE RIGHT. THE STATION IS LOCATED 26.9 METERS NORTH OF THE CENTERLINE OF THE NORTH SERVICE ROAD, 15.5 METERS WEST OF THE CENTERLINE OF THE WEST ENTRANCE TO GEYER SPRINGS FIRST BAPTIST CHURCH, AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION IS A STANDARD 64MM CAP STAMPED 600051A-2002 SET ON TOP OF A 1.22 METER STEEL ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	600051
Geodetic Azimuth	86 05 06
Grid Azimuth	86 19 18

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600052	Date Monumented 7/27/2002	Monumented By AHTD	County PULASKI	Route I-30	Job Number: 60209
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	623,189.5032	
Easting (M)	369,509.4035	
Elevation (M)*		

Northing (SFT)	2,044,580.8951	
Easting (SFT)	1,212,298.7680	
Elevation (SFT)*		

Convergence Angle	0	11	10.3816451
Scale Factor	0.999981524		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	40	42.5091900
Longitude	92	19	57.7569684
Ellipsoid Height:	84.389		
Grid Northing (Meters)	623,189.9143		
Grid Easting (Meters)	369,509.7789		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK TOP OF STEEL GUARDRAIL POST	103	4.20	13.8
MK # 2	PUNCH MARK TOP OF STEEL GUARDRAIL POST	32	6.30	20.7
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	SALIPOINT

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600052A	Date Monumented 7/27/2002	Monumented By AHTD	County PULASKI	Route I-30	Job Number: 60209
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	623,214.5769	
Easting (M)	368,518.8960	
Elevation (M)*		
Northing (SFT)	2,044,663.1577	
Easting (SFT)	1,209,049.0780	
Elevation (SFT)*		

Convergence Angle	0	11	32.1611332
Scale Factor	0.999981562		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	40	43.2167592
Longitude	92	20	36.6705600
Ellipsoid Height:	69.384		
Grid Northing (Meters)	623,214.9894		
Grid Easting (Meters)	368,519.2675		

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ADAMS 2	
Ref Mon # 2 ROCKPORT	
Ref Mon # 3 SALIPORT	

Vertical Determined By: NONE	
Elevation Datum: NONE	
Geoid Datum:	
Latitude	34 40 43.2033312
Longitude	92 20 36.6851004
Ellipsoid Height (M):	69.375
Geoid Height (M):	-26.402

Location Description
<p>THE STATION IS LOCATED AT THE SOUTHEAST CORNER OF THE I-30 BRIDGE OVER GEYER SPRINGS ROAD 4.60 METERS SOUTHEAST OF THE BRIDGE ABUTMENT, 12.0 METERS SOUTH OF THE CENTERLINE OF THE EASTBOUND LANE OF I-30, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64MM CAP STAMPED 600052A-2002 SET ON TOP OF A 1.22 METER STEEL ROD DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600053A	Date Monumented 7/27/2002	Monumented By AHTD	County PULASKI	Route I-430	Job Number: 60209,060657,061332
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	624,974.0418	
Easting (M)	362,966.4894	
Elevation (M)*		
Northing (SFT)	2,050,435.6688	
Easting (SFT)	1,190,832.5573	
Elevation (SFT)*		

Convergence Angle	0	13	34.3910074
Scale Factor	0.999984675		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	41	39.6567600
Longitude	92	24	15.0596784
Ellipsoid Height:	71.026		
Grid Northing (Meters)	624,974.4608		
Grid Easting (Meters)	362,966.8393		

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF I-430 AND STATE HIGHWAY 5 (STAGECOACH RD.) BRIDGE GO NORTH ON I-430 1.00 MILES TO THE STATION ON THE LEFT LOCATED IN THE CRNTER MEDIAN OF I-430 700 FEET SOUTH OF THE DAVID O DODD RD. OVERPASS, 6.40 METERS WEST OF CONCRETE SHOULDER, 3.40 METERS EAST OF CONCRETE SHOULDER, AND 1.80 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 64MM DISC STAMPED 600053A-2002 SET ON TOP OF A 0.80 STEEL ROD DRIVEN TO RESISTANCE.			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				AZ Mark Station	600053
MK # 2					Geodetic Azimuth	187 42 19
MK # 3					Grid Azimuth	187 55 53

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ADAMS 2	
Ref Mon # 2 ROCKPORT	
Ref Mon # 3 SALIPOINT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600054	Date Monumented 4/7/2003	Monumented By AHTD	County PULASKI	Route N/A	Job Number: 061103, 061194
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	47,930.8029	
Easting (M)	367,180.6660	
Elevation (M)*	154.774	
Northing (SFT)	157,252.9758	
Easting (SFT)	1,204,658.5684	
Elevation (SFT)*	507.788	

Convergence Angle	0	12	30.9535085
Scale Factor	1.000037401		
Elevation Adjust. Factor	0.9999757115		
Combined Adjust. Factor	1.0000131116		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONC LIGHT POLE	172	25.85	84.8
MK # 2	CONC COMBINATION POLE	4	19.20	63.0
MK # 3	FIRE HYDRANT	179	22.50	73.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Russport, Rouch Ref Mon # 2 480016 Ref Mon # 3 Butler	ELEVATION BY 3WIRE BY S5101 & S5103 FROM NGS POINT U 72

Vertical Determined By: 3rd Order - 3 Wire Level

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 34 45 53.3664000

Longitude 92 21 30.5217972

Ellipsoid Height (M): 128.021

Geoid Height (M): -26.625

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND MISSISSIPPI STREET IN LITTL ROCK, GO SOUTH ON MISSISSIPPI STREET 0.45 MILES TO THE STATION ON THE RIGHT. THE STATION IS BETWEEN THE CONC SIDEWALK AND ASPHALT PARKING LOT FOR FIRST CRISTIAN CHURCH (DISCIPLES OF CHRIST). THE STATION IS ON THE WEST SIDE OF MISSISSIPPI STREET AND NORTH WEST OF THE INTERSECTION OF MISSISSIPPI AND M STREET. 9.40 METERS WEST OF THE CENTERLINE OF MISSISSIPPI STREET AND EAST 2.70 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600054 2003" ON TOP OF A 0.65 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600054A	Date Monumented 4/7/2003	Monumented By AHTD	County PULASKI	Route 10	Job Number: 061103, 061194
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	48,680.5189
Easting (M)	367,220.6330
Elevation (M)*	178.286
Northing (SFT)	159,712.6691
Easting (SFT)	1,204,789.6934
Elevation (SFT)*	584.927

Convergence Angle	0 12 30.1013980
Scale Factor	1.000035737
Elevation Adjust. Factor	0.9999720219
Combined Adjust. Factor	1.0000077579

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
<p>THE STATION IS LOCATED AT THE SOUTH EAST CORNER OF STATE HIGHWAY 10 AND MISSISSIPPI STREET IN LITTLE ROCK. EAST OF CONC SIDEWALK AND WEST OF CONC CURB. THIS IS THE NORTH WEST CORNER OF THE PARKING LOT FOR HARVEST FOODS. THE STATION IS SOUTH 17.80 METERS OF THE CENTERLINE OF HIGHWAY 10 (CANTREL ROAD) AND EAST 8.80 METERS FROM THE CENTERLINE OF MISSISSIPPI STREET AND 1.10 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600054A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	185	13.00	42.7
MK # 2	LIGHT POLE	178	9.80	32.2
MK # 3	COMBINATION POLE	69	9.50	31.2

Area Reference Monuments (used for Processing)	
Ref Mon # 1	Russport, Rouch
Ref Mon # 2	480016
Ref Mon # 3	Butler

Comments
ELEVATION BY 3WIRE BY S5101 & S5103 FROM NGS POINT U 72

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600055	Date Monumented 4/7/2003	Monumented By AHTD	County PULASKI	Route 430	Job Number: 061103,Mobie LiDAR-CLS
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	636,352.9122	
Easting (M)	364,972.7044	
Elevation (M)*	93.143	
Northing (SFT)	2,087,767.8461	
Easting (SFT)	1,197,414.6144	
Elevation (SFT)*	305.586	

Convergence Angle	0	12	51.2090384
Scale Factor	1.000006908		
Elevation Adjust. Factor	0.9999853831		
Combined Adjust. Factor	0.9999922910		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH WEST CORNER OF ARKANSAS RIVER BRIDGE	80	2.50	8.2
MK # 2	GUARD RAIL	145	0.90	3.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Russport, Rouch Ref Mon # 2 480016 Ref Mon # 3 Butler	ELEVATION BY 3WIRE BY S5101 & S5103 FROM NGS POINT U 72

Vertical Determined By: 3rd Order - 3 Wire Level

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 34 47 49.1498808

Longitude 92 22 57.9200844

Ellipsoid Height (M): 66.358

Geoid Height (M): -26.766

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 100 AND HIGHWAY 430, NORTH OF THE ARKANSAS RIVER, NORTH WEST OF LITTLE ROCK, GO SOUTH ON HIGHWAY 430 FOR 1.7 MILES TO THE STATION ON THE RIGHT. THE STATION IS SOUTH 0.50 OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "600055 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600055A	Date Monumented 4/7/2003	Monumented By AHTD	County PULASKI	Route 430	Job Number: 3,060657,061331,Mobie LiDA
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	636,169.3635	
Easting (M)	364,511.7995	
Elevation (M)*	114.649	
Northing (SFT)	2,087,165.6534	
Easting (SFT)	1,195,902.4622	
Elevation (SFT)*	376.145	

Convergence Angle	0	13	1.3415499
Scale Factor	1.000006520		
Elevation Adjust. Factor	0.9999820081		
Combined Adjust. Factor	0.9999885280		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EDGE OF CONC	135	3.00	9.8
MK # 2	GUARD RAIL	135	2.30	7.5
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	Russport, Rouch
Ref Mon # 2	480016
Ref Mon # 3	Butler

Comments
ELEVATION BY 3WIRE BY S5101 & S5103 FROM NGS POINT U 72. ELEVATION WAS UPDATED BY S5113 DURING JOB 060657 FROM 376.335 TO 376.145. NEW ELEV WAS EST FROM G 321.

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 100 AND HIGHWAY 430, NORTH OF THE ARKANSAS RIVER AND NORTH WEST OF LITTLE ROCK, GO SOUTH ON HIGHWAY 430 FOR 2.0 MILES TO THE STATION ON THE RIGHT. THE STATION IS SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600055A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	600055
Geodetic Azimuth	068 04 08
Grid Azimuth	068 17 40

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600056	Date Monumented 8/18/1903	Monumented By AHTD	County PULASKI	Route 365	Job Number: B60117,061303
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 49,370.3019		Geoid Datum:
Easting (M) 374,503.9850		Latitude 34 46 40.8464184
Elevation (M)* 		Longitude 92 16 42.7161360
Northing (SFT) 161,975.7322		Ellipsoid Height (M): 55.824
Easting (SFT) 1,228,685.1575		Geoid Height (M): -27.597
Elevation (SFT)* 		

Convergence Angle 0 9 43.4796452	Location Description <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Scale Factor 1.000034166	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL			
Horizontal Datum 	Latitude 	Longitude 	Ellipsoid Height:
Grid Northing (Meters) 	Grid Easting (Meters) 		

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	LIGHT POLE	3	25.00	82.0	Geodetic Azimuth	181 23 27
MK # 2	POWER POLE	339	16.00	52.5	Grid Azimuth	181 33 11
MK # 3						

Area Reference Monuments (used for Processing)	Comments <div style="border: 1px solid black; height: 100px; margin-top: 5px;"></div>
Ref Mon # 1 600020,600021	
Ref Mon # 2 600025	
Ref Mon # 3 93600013	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600056A	Date Monumented 8/18/1903	Monumented By AHTD	County PULASKI	Route 365	Job Number: B60117
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 48,962.7890		Geoid Datum:
Easting (M) 374,492.9370		Latitude 34 46 27.6217104
Elevation (M)* 		Longitude 92 16 43.1052780
Northing (SFT) 160,638.7502		Ellipsoid Height (M): 54.681
Easting (SFT) 1,228,648.9108		Geoid Height (M): -27.588
Elevation (SFT)* 		

Convergence Angle 0 9 43.7060866	
Scale Factor 1.000035062	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks			
Description	Azimuth	Distance	
		Meters	Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 600020,600021	
Ref Mon # 2 600025	
Ref Mon # 3 93600013	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600057A	Date Monumented 8/18/1903	Monumented By AHTD	County PULASKI	Route N/A	Job Number: B60117,061348
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 52,541.7194		Latitude 34 48 23.6176596
Easting (M) 373,016.3996		Longitude 92 17 41.5936140
Elevation (M)* 93.091		Ellipsoid Height (M): 66.355
Northing (SFT) 172,380.6244		Geoid Height (M): -26.734
Easting (SFT) 1,223,804.6377		
Elevation (SFT)* 305.416		

Convergence Angle	0	10	17.7403983
Scale Factor	1.000027343		
Elevation Adjust. Factor	0.9999853912		
Combined Adjust. Factor	1.0000127338		

SUPERCEDED CONTROL
Horizontal Datum NAD 83 (1997)
Latitude 34 51 5.8802580
Longitude 92 17 42.1701468
Ellipsoid Height: 65.429
Grid Northing (Meters) 57,542.1290
Grid Easting (Meters) 373,016.7290

Location Reference Marks			
Description	Azimuth	Distance	
		Meters	Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 600020,600021	3 WIRE DIGITAL LEVELS WERE RAN FROM NGS BMs G 290 AND H 290 DURING JOB 061348 BY CREW S5101 IN MAY 2012
Ref Mon # 2 600025	
Ref Mon # 3 93600013	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600058	Date Monumented 8/18/1903	Monumented By AHTD	County PULASKI	Route N/A	Job Number: B60117
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 50,501.5820		Geoid Datum:
Easting (M) 374,543.1080		Latitude 34 47 17.5597800
Elevation (M)* 		Longitude 92 16 41.3031792
Northing (SFT) 165,687.2736		Ellipsoid Height (M): 60.254
Easting (SFT) 1,228,813.5135		Geoid Height (M): -27.622
Elevation (SFT)* 		

Convergence Angle 0 9 42.6574469	
Scale Factor 1.000031701	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks			
	Description	Azimuth	Distance
			Meters Feet
MK # 1	POWER POLE	334	12.70 41.7
MK # 2	GUY	352	11.30 37.1
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 600020,600021	
Ref Mon # 2 600025	
Ref Mon # 3 93600013	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600059	Date Monumented 3/16/2006	Monumented By AHTD	County PULASKI	Route 430	Job Number: 61148,060657
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	43,157.6449	
Easting (M)	363,247.9750	
Elevation (M)*	104.579	
Northing (SFT)	141,593.0400	
Easting (SFT)	1,191,756.0646	
Elevation (SFT)*	343.107	

Convergence Angle	0	14	0.4931477
Scale Factor	1.000048352		
Elevation Adjust. Factor	0.9999835884		
Combined Adjust. Factor	1.0000319396		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER BRIDGE NORTH BO ND LANE	93	3.84	12.6
MK # 2	NORTHEAST CORNER BRIDGE SOUTH BOU ND LANE	257	3.81	12.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.
Ref Mon # 2 600041, 600054	
Ref Mon # 3 600055	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600059A	Date Monumented 3/16/2006	Monumented By AHTD	County PULASKI	Route 430	Job Number: 61148
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	42,561.3859	
Easting (M)	363,214.9750	
Elevation (M)*	117.569	
Northing (SFT)	139,636.8136	
Easting (SFT)	1,191,647.7971	
Elevation (SFT)*	385.725	

Convergence Angle	0	14	1.1922157
Scale Factor	1.000049755		
Elevation Adjust. Factor	0.9999815499		
Combined Adjust. Factor	1.0000313040		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF I-430 AND STATE HIGHWAY 300, SOUTHWEST OF LITTLE ROCK, GO NORTH ON I-430 FOR 0.20 MILES TO THE STATION MARK IN THE MEDIAN. EAST 1.60 FEET OF A WITNESS POST, 15.30 FEET WEST OF THE EDGE OF CONCRETE (NORTH BOUND)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 600041, 600054 Ref Mon # 3 600055	Comments 3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600060	Date Monumented 3/16/2006	Monumented By AHTD	County PULASKI	Route 630	Job Number: 61148,061381,061510
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	630,886.1248	
Easting (M)	365,042.0781	
Elevation (M)*	133.617	
Northing (SFT)	2,069,832.2278	
Easting (SFT)	1,197,642.2179	
Elevation (SFT)*	438.374	

Convergence Angle	0	12	49.2327491
Scale Factor	0.999995832		
Elevation Adjust. Factor	0.9999790316		
Combined Adjust. Factor	0.9999748637		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
TO REACH THE STATION MARK FROM THE JUNCTION OF I-430 AND I-630, IN WEST LITTLE ROCK, GO EAST ON I-630 FOR 0.50 MILES TO THE STATION MARK ON THE RIGHT. SOUTHWEST 1.60 FEET OF A WITNESS POST. THE STATION MARK IS LOCATED ON TOP OF A FLAT TOP HILL SOUTH OF				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PEAR TREE	191	12.50	41.0
MK # 2	PEAR TREE	262	9.88	32.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 600041, 600054 Ref Mon # 3 600055	3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600060A	Date Monumented 3/16/2006	Monumented By AHTD	County PULASKI	Route 630	Job Number: 61148,061381,061510
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Zone Arkansas South	Zone Code 302	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Vertical Determined By:</td> <td colspan="3">3rd Order - 3 Wire Level</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="3">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="3">GEIOD09</td> </tr> <tr> <td>Latitude</td> <td>34</td> <td>44</td> <td>50.1596520</td> </tr> <tr> <td>Longitude</td> <td>92</td> <td>22</td> <td>34.5424800</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td colspan="2">91.618</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td colspan="2">-26.672</td> <td></td> </tr> </table>	Vertical Determined By:	3rd Order - 3 Wire Level			Elevation Datum:	NAVD 88			Geoid Datum:	GEIOD09			Latitude	34	44	50.1596520	Longitude	92	22	34.5424800	Ellipsoid Height (M):	91.618			Geoid Height (M):	-26.672		
Vertical Determined By:	3rd Order - 3 Wire Level																													
Elevation Datum:	NAVD 88																													
Geoid Datum:	GEIOD09																													
Latitude	34		44	50.1596520																										
Longitude	92		22	34.5424800																										
Ellipsoid Height (M):	91.618																													
Geoid Height (M):	-26.672																													
Horizontal Datum NAD 83 (1997)																														
Northing (M)	630,835.0358																													
Easting (M)	365,546.6972																													
Elevation (M)*	118.275																													
Northing (SFT)	2,069,664.6133																													
Easting (SFT)	1,199,297.7891																													
Elevation (SFT)*	388.042																													

Convergence Angle	0	12	38.1248110
Scale Factor	0.999995735		
Elevation Adjust. Factor	0.9999814391		
Combined Adjust. Factor	0.9999771742		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude	34	44	50.1596340
Longitude	92	22	34.5424296
Ellipsoid Height:	91.770		
Grid Northing (Meters)	630,835.0352		
Grid Easting (Meters)	365,546.6984		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I-430 AND I-630, IN WEST LITTLE ROCK, GO EAST ON I-630 FOR 0.80 MILES TO THE STATION MARK ON THE LEFT. SOUTH 1.60 FEET OF A WITNESS POST. 37.10 FEET NORTH OF THE EDGE OF CONCRETE OF THE WEST BOUND LANE AND 2

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	LIGHT POLE	253	22.04	72.3	600060
MK # 2	MAN HOLE ON INLET	248	21.03	69.0	275 34 14
MK # 3					275 47 23

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.
Ref Mon # 2 600041, 600054	
Ref Mon # 3 600055	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600061	Date Monumented 3/16/2006	Monumented By AHTD	County PULASKI	Route 630	Job Number: 61148,061381
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	630,632.5849				
Easting (M)	367,659.7462				
Elevation (M)*	115.523				
Northing (SFT)	2,069,000.4056				
Easting (SFT)	1,206,230.3507				
Elevation (SFT)*	379.013				

Convergence Angle	0	11	51.6134134
Scale Factor	0.999995354		
Elevation Adjust. Factor	0.9999818710		
Combined Adjust. Factor	0.9999772250		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	44	43.8344088
Longitude	92	21	11.4406020
Ellipsoid Height:	88.977		
Grid Northing (Meters)	630,632.5914		
Grid Easting (Meters)	367,659.7439		

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF I-630 AND UNIVERSITY AVE, (EXIT 5). IN LITTLE ROCK, GO WEST ON 630 FOR 0.65 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 2.00 FEET OF A WITNESS POST AND 29.00 FEET NORTH OF THE EDGE OF CONCRETE OF WEST BOU			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						F 98
MK # 2						175 37 22
MK # 3						175 49 42

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARLR	3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.
Ref Mon # 2: 600041, 600054	
Ref Mon # 3: 600055	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600062A	Date Monumented 1/1/2007	Monumented By AHTD	County PULASKI	Route I-40	Job Number: 012119
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	55,747.1490	
Easting (M)	368,175.0040	
Elevation (M)*	81.938	
Northing (SFT)	182,897.1047	
Easting (SFT)	1,207,920.8256	
Elevation (SFT)*	268.824	

Convergence Angle	0	12	8.8337763
Scale Factor	1.000020719		
Elevation Adjust. Factor	0.9999871414		
Combined Adjust. Factor	1.0000078602		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	south east end of I-40 east bound bridge	284	3.50	11.5
MK # 2	south west of I-40 west bound bridge	75	25.90	85.0
MK # 3	east end of a 24 inch cross drain pipe	165	28.50	93.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARHR Ref Mon # 3 ARLR	DIGITAL LEVELS WERE RAN BY CREW S5103 IN MAY 2010 FROM NGS MARKS J 290 & L 290 IN JOB 012119

Vertical Determined By: 3rd Order - Digital Level

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 34 50 7.1204352

Longitude 92 20 52.5087960

Ellipsoid Height (M): 55.056

Geoid Height (M): -26.887

Location Description

To reach the station from jct. I-40 and SR-365 (exit-142) north west of Little Rock AR., follow I-40 east 4.5 miles to the station on the left side in the median, 11.5 feet south east of a I-40 east bound bridge, 4 feet south of top of slope to creek bank, and 8 foot east of a witness post. The station is a standard 2.5 inch cap stamped "600062A 2007" on top of a 4 foot rebar and driven 0.2 foot below the surface

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600063	Date Monumented 1/1/2007	Monumented By AHTD	County PULASKI	Route NA	Job Number: 061201, XR60101
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	622,968.0279	
Easting (M)	375,771.3420	
Elevation (M)*	96.542	
Northing (SFT)	2,043,854.2715	
Easting (SFT)	1,232,843.1445	
Elevation (SFT)*	316.738	

Convergence Angle	0	8	52.6916196
Scale Factor	0.999981165		
Elevation Adjust. Factor	0.9999848496		
Combined Adjust. Factor	0.9999660149		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF I 530 AND DIXON ROAD (EXIT 3), SOUTH OF LITTLE ROCK, GO EAST ON DIXON ROAD (HIGHWAY 338) APPROXIMATELY 300 FEET AND TURN LEFT ON SHAMBURGER ROAD AND GO 0.29 MILES TO THE SECOND PAVED DRIVEWAY LEADING TO THE AHTD R.E OFFICE LOCATED BEHIND THE AHTD MAINTENANCE AREA HDQRS. GO SOUTHEAST ON THIS DRIVEWAY FOR 225 FEET TO THE STATION MARK LOCATED IN THE FRONT YARD ON THE SIDE OF A SMALL HILL. THE MARK IS 61.5 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF THE BLDG. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600063 2008" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND AND NORTH 24.0 FEET OF A WITNESS POST.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SW CORNER R.E. BLDG		18.75	61.5	
MK # 2	FLAGPOLE	359	16.31	53.5	
MK # 3	6 FOOT CHAINLINK FENCE CORNER		26.21	86.0	

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARLR	<p>3 WIRE LEVELS FROM C 320 TO B 287 ON THE 3/2008 BY S5102.</p>
Ref Mon # 2	ARBT	
Ref Mon # 3	ARHP	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600063A	Date Monumented 3/19/2007	Monumented By AHTD	County PULASKI	Route NA	Job Number: XR60101
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	644,760.7480	
Easting (M)	378,609.0362	
Elevation (M)*	80.371	
Northing (SFT)	2,115,352.5541	
Easting (SFT)	1,242,153.1463	
Elevation (SFT)*	263.684	

Convergence Angle	0	7	51.3972801
Scale Factor	1.000025488		
Elevation Adjust. Factor	0.9999873873		
Combined Adjust. Factor	1.0000128750		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	272	15.85	52.0
MK # 2	Gas meter	300	27.43	90.0
MK # 3	Chain link fence corner	229	15.36	50.4

Area Reference Monuments (used for Processing) Ref Mon # 1 600045 Ref Mon # 2 600015 Ref Mon # 3 600046	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description
To reach the station from the junction of highways 176 and 107 on the north side of North Little Rock go north on hwy-107 for 1.40 miles to Kellogg road. Turn left on Kellogg road and go 1.60 miles to the station on the left. 18.0 feet south of the center of Kellogg road and 3.80 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "600063A 2007" set on top of a 5/8 inch by 4 foot long rebar and is 0.50 feet below the surface.

AZ Mark Station	600063
Geodetic Azimuth	90 57 32
Grid Azimuth	91 05 42

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600064	Date Monumented 2/13/2008	Monumented By AHTD	County PULASKI	Route I 30	Job Number: 1, XR60101, 061277, 060395,0
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	628,240.4740	
Easting (M)	375,544.4130	
Elevation (M)*	84.192	
Northing (SFT)	2,061,152.2884	
Easting (SFT)	1,232,098.6283	
Elevation (SFT)*	276.220	

Convergence Angle	0	8	57.9832071
Scale Factor	0.999990801		
Elevation Adjust. Factor	0.9999867877		
Combined Adjust. Factor	0.9999775888		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MANHOLE	69	1.16	3.8
MK # 2	C/L CONCRETE DITCH	310	8.53	28.0
MK # 3	BACK OF CURB I 30 S.	125	1.40	4.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARBT Ref Mon # 3 ARHP	3 WIRE LEVELS FROM C 320 TO B 287 ON THE 3/2008 BY S5102.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600064A	Date Monumented 2/13/2008	Monumented By AHTD	County PULASKI	Route I 30	Job Number: 1201, XR60101, 061277, 0603
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	628,699.9480	
Easting (M)	375,741.1070	
Elevation (M)*	90.563	

Northing (SFT)	2,062,659.7461	
Easting (SFT)	1,232,743.9485	
Elevation (SFT)*	297.122	

Convergence Angle	0	8	53.6824299
Scale Factor	0.999991675		
Elevation Adjust. Factor	0.9999857879		
Combined Adjust. Factor	0.9999774630		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	BACK OF CURB 21st	001	2.59	8.5
MK # 2	C/L METAL METAL GRATE INLET	348	3.26	10.7
MK # 3	ELECTRIC LIGHT POLE	148	18.50	60.7

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARBT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARHP</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	ARBT	Ref Mon # 3	ARHP	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3 WIRE LEVELS FROM C 320 TO B 287 ON THE 3/2008 BY S5102.</td> </tr> </table>	Comments	3 WIRE LEVELS FROM C 320 TO B 287 ON THE 3/2008 BY S5102.
Ref Mon # 1	ARLR								
Ref Mon # 2	ARBT								
Ref Mon # 3	ARHP								
Comments									
3 WIRE LEVELS FROM C 320 TO B 287 ON THE 3/2008 BY S5102.									

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600065	Date Monumented 8/25/2008	Monumented By AHTD	County Pulaski	Route 167	Job Number: R60080_new
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	55,099.8290	
Easting (M)	383,445.5750	
Elevation (M)*		
Northing (SFT)	180,773.3556	
Easting (SFT)	1,258,021.0240	
Elevation (SFT)*		

Convergence Angle	0	6	19.0917566
Scale Factor	1.000021959		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	End of wingwall	345	1.04	3.4	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600066	Date Monumented 8/25/2008	Monumented By AHTD	County Pulaski	Route NA	Job Number: R60080_new 061475
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	53,397.6019	
Easting (M)	380,867.0220	
Elevation (M)*		
Northing (SFT)	175,188.6322	
Easting (SFT)	1,249,561.2213	
Elevation (SFT)*		

Convergence Angle	0	7	18.0569564
Scale Factor	1.000025499		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	telephone box	345	2.99	9.8
MK # 2	Combination pole	170	16.76	55.0
MK # 3	Center of manhole	177	1.06	3.5

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARBT Ref Mon # 3 600045, 600045A,	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description	
To reach the station from the junction of highways 167/67 and Wildwood Ave. in Sherwood go west on Wildwood for 0.30 miles to the station on the right just west of the intersection with Country club road in the lawn of the "Hand and Extremity Clinic" and across the street from the hospital. 21.0 feet north of the center of Wildwood Ave., 14.40 feet south of the edge of a sidewalk. There is NO witness post. The station mark is a 2 1/2 inch cap stamped "600066 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the grounds surface.	

AZ Mark Station	600066A
Geodetic Azimuth	95 58 33
Grid Azimuth	96 05 51

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600066A	Date Monumented 8/25/2008	Monumented By AHTD	County Pulaski	Route 167	Job Number: R60080_new
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	53,341.8119	
Easting (M)	381,389.2870	
Elevation (M)*		
Northing (SFT)	175,005.5945	
Easting (SFT)	1,251,274.6858	
Elevation (SFT)*		

Convergence Angle	0	7	6.0968918
Scale Factor	1.000025614		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center of a drop inlet	192	4.18	13.7
MK # 2	Southwest corner of bridge wingwall	56	1.82	6.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	
Ref Mon # 2 ARBT	
Ref Mon # 3 600045, 600045A	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 48 50.2680420
Longitude	92 12 12.2521572
Ellipsoid Height (M):	56.527
Geoid Height (M):	-26.726

Location Description
<p>The station is located at the southwest corner of the southbound highway 167 bridge over Wildwood Ave. in Sherwood. 2.80 feet from the back of the curb of hwy-167 and 1.70 feet northwest of a witness post. The station mark is a 2 1/2 inch cap stamped "600066A 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the grounds surface.</p>

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600068	Date Monumented 2/2/2010	Monumented By AHTD	County Pulaski	Route I-40	Job Number: 012119
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	56,180.1689	
Easting (M)	368,049.4380	
Elevation (M)*	87.418	
Northing (SFT)	184,317.7708	
Easting (SFT)	1,207,508.8645	
Elevation (SFT)*	286.804	

Convergence Angle	0	12	11.7445584
Scale Factor	1.000019840		
Elevation Adjust. Factor	0.9999862815		
Combined Adjust. Factor	1.0000061212		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	east end of a gate post	250	2.30	7.5		
MK # 2	weat end of a 48 inch cross drain	201	17.68	58.0		
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARHR Ref Mon # 3 ARLR	DIGITAL LEVELS WERE RAN BY CREW S5103 IN MAY 2010 FROM NGS MARKS J 290 & L 290 IN JOB 012119

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600069	Date Monumented 7/6/2011	Monumented By S5112	County PULASKI	Route 367	Job Number: 061261,061383
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 61,643.3210		Geoid Datum: Geoid 96
Easting (M) 390,412.3849		Latitude 34 53 20.1104401
Elevation (M)* 91.422		Longitude 92 6 17.5800701
Northing (SFT) 202,241.4623		Ellipsoid Height (M): 64.498
Easting (SFT) 1,280,877.9661		Geoid Height (M): -26.924
Elevation (SFT)* 299.940		

Convergence Angle 0 3 39.7135135	Location Description
Scale Factor 1.000009032	<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 367/321/5, SOUTHWEST OF CABOT, GO SOUTH ON OLD 367, ALSO KNOWN AS TP WHITE DRIVE, FOR 5.0 MILES TO THE MARK ON THE RIGHT, 8 FEET NORTHWEST OF THE EDGE OF THE PAVEMENT OF THE EAST SERVICE ROAD AND SOUTHEAST OF THE EDGE OF PAVEMENT FOR THE NORTH BOUND LANE OF STATE HIGHWAY 167. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600069 20111" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>
Elevation Adjust. Factor 0.9999856531	
Combined Adjust. Factor 0.9999946850	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SIGNAL POLE	44	20.73	68.0	AZ Mark Station 600026A
MK # 2					Geodetic Azimuth 205 06 46
MK # 3					Grid Azimuth 205 10 26

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	<p>ELEVATION ESTABLISHED FROM DIGITAL LEVELS BY S5111 IN JUNE 2011 FROM 1ST ORDER NGS BM RV 152 TO 1ST ORDER NGS BM RV 135 UNDER P.E. JOB 061261.</p>
Ref Mon # 2 430017A, 430014, 430014A	
Ref Mon # 3 430016, 430016A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600070	Date Monumented 7/6/2011	Monumented By S5112	County PULASKI	Route 367	Job Number: 061261,061383
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	64,982.1326	
Easting (M)	392,510.5148	
Elevation (M)*	90.160	
Northing (SFT)	213,195.5467	
Easting (SFT)	1,287,761.5806	
Elevation (SFT)*	295.799	

Convergence Angle	0	2	51.6956689
Scale Factor	1.000002846		
Elevation Adjust. Factor	0.9999858512		
Combined Adjust. Factor	0.9999886972		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	88	18.29	60.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 430017A, 430014, 430014A	ELEVATION ESTABLISHED FROM DIGITAL LEVELS BY S5111 IN JUNE 2011 FROM 1ST ORDER NGS BM RV 152 TO 1ST ORDER NGS BM RV 135 UNDER P.E. JOB 061261.
Ref Mon # 2 ARLR	
Ref Mon # 3 430016, 430016A	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	34 55 8.5198501
Longitude	92 4 55.0608802
Ellipsoid Height (M):	63.159
Geoid Height (M):	-27.001

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 367/321/5, SOUTHWEST OF CABOT, GO SOUTH ON OLD 367 ALSO KNOWN AS TP WHITE DRIVE FOR 2.4 MILES TO THE MARK ON THE RIGHT, NORTHWEST 70 FEET OF A FENCE CORNER, 63 FEET NORTHWEST OF A POWERPOLE WITH LIGHT AND WEST 60 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600070 2011" ON TOP OF A 4 FOOT REBAR DEIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600070A	Date Monumented 7/6/2011	Monumented By S5112	County PULASKI	Route 367	Job Number: 061261,061383
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	64,566.6171	
Easting (M)	392,464.1119	
Elevation (M)*	79.699	
Northing (SFT)	211,832.3096	
Easting (SFT)	1,287,609.3405	
Elevation (SFT)*	261.480	

Convergence Angle	0	2	52.7514723
Scale Factor	1.000003600		
Elevation Adjust. Factor	0.9999874927		
Combined Adjust. Factor	0.9999910927		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	ELEVATION ESTABLISHED FROM DIGITAL LEVELS BY S5111 IN JUNE 2011 FROM 1ST ORDER NGS BM RV 152 TO 1ST ORDER NGS BM RV 135 UNDER P.E. JOB 061261.
Ref Mon # 2 430017A, 430014, 430014A	
Ref Mon # 3 430016, 430016A	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	34 54 55.0350601
Longitude	92 4 56.8752899
Ellipsoid Height (M):	52.708
Geoid Height (M):	-26.991

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 367/321/5, SOUTHWEST OF CABOT, GO SOUTH ON OLD 367 ALSO KNOWN AS TP WHITE DRIVE FOR 2.65 MILES TO THE MARK ON THE RIGHT, 36 FEET SOUTHEAST OF THE EDGE OF THE PAVEMENT OF THE NORTHBOUND LANE OF 167 AND WEST 21.6 FEET OF THE CENTERLINE OF TP WHITE DRIVE, AND WEST 59.7 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600070A 2011" ON TOP OF A 4 FOOT REBAR DEIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600071	Date Monumented 8/3/2011	Monumented By AHTD	County Pulaski	Route 10	Job Number: 061331,Mobie LiDAR-CLS
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	636,959.8840	0.0047			
Easting (M)	359,374.7125	0.0046			
Elevation (M)*	87.765				
Northing (SFT)	2,089,759.2194				
Easting (SFT)	1,179,048.5359				
Elevation (SFT)*	287.942				

Convergence Angle	0	14	54.5186321
Scale Factor	1.000008135		
Elevation Adjust. Factor	0.9999862270		
Combined Adjust. Factor	0.9999943619		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	36"RCP	96	30.48	100.0	
MK # 2	Combo. Pole	336	12.19	40.0	
MK # 3	North East corner of North side of Bridge	263	32.00	105.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Digital Levels were ran by crew S5102 during Job 061331 from NGS BM G 321 and F 321 during Aug. 2011
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600071A	Date Monumented 8/3/2011	Monumented By AHTD	County Pulaski	Route 10	Job Number: 061331,Mobie LiDAR-CLS
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	636,774.6834	0.0044	
Easting (M)	359,867.9590	0.0042	
Elevation (M)*	96.841		

Northing (SFT)	2,089,151.6071		
Easting (SFT)	1,180,666.7955		
Elevation (SFT)*	317.720		

Convergence Angle	0	14	43.6406175
Scale Factor	1.000007750		
Elevation Adjust. Factor	0.9999848027		
Combined Adjust. Factor	0.9999925526		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combo Pole	124	16.46	54.0
MK # 2	12" RCP	234	22.25	73.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Digital Levels were ran by crew S5102 during Job 061331 from NGS BM G 321 and F 321 during Aug. 2011
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600072	Date Monumented 7/1/2012	Monumented By AHTD	County PULASKI	Route 176	Job Number: 061348,061166
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 51,598.4462		Latitude 34 47 53.2267836
Easting (M) 375,363.3985		Longitude 92 16 9.1565832
Elevation (M)* 92.795		Ellipsoid Height (M): 66.184
		Geoid Height (M): -26.693

Northing (SFT) 169,285.9022		
Easting (SFT) 1,231,504.7499		
Elevation (SFT)* 304.444		

Convergence Angle	0	9	23.9513707
Scale Factor	1.000029335		
Elevation Adjust. Factor	0.9999854377		
Combined Adjust. Factor	1.0000147722		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	North of Man Hole	210	3.04	10.0	AZ Mark Station 600020
MK # 2	east of cl 176		9.14	30.0	Geodetic Azimuth
MK # 3	south of cl asph dr tomexican restaurant		9.45	31.0	Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	RESET FOR 600020A ***** ELEV. BASED ON DIGITAL LEVELS BY S5112 IN FEB. 2016 FOR SHILCOTTS BAYOU STR. & APPRS. ELEV. RAN FROM TBM 905 FROM JOB #061348. S5112 RAN BETWEEN G 290 & 905 TO VERIFY 905 ELEV.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600073	Date Monumented 7/20/2012	Monumented By AHTD	County PULASKI	Route NA	Job Number: 061348
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 52,174.2507		Geoid Datum: Geoid 96
Easting (M) 373,183.9443		Latitude 34 48 11.7096048
Elevation (M)* 92.743		Longitude 92 17 34.9590516
Northing (SFT) 171,175.0208		Ellipsoid Height (M): 66.023
Easting (SFT) 1,224,354.3239		Geoid Height (M): -26.722
Elevation (SFT)* 304.275		

Convergence Angle	0	10	13.8797522
Scale Factor	1.000028121		
Elevation Adjust. Factor	0.9999854458		
Combined Adjust. Factor	1.0000135664		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	FE corner	199	18.90	62.0	AZ Mark Station
MK # 2	CP	251	14.60	47.9	Geodetic Azimuth
MK # 3	FE corner	270	15.50	50.9	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>RESET for 600057 (JUST A NEW CAP)</td> </tr> </table>	Comments	RESET for 600057 (JUST A NEW CAP)
Comments			
RESET for 600057 (JUST A NEW CAP)			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600074	Date Monumented 12/17/2012	Monumented By AHTD	County Pulaski	Route 630	Job Number: 061381
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	630,622.0770	
Easting (M)	369,348.6081	
Elevation (M)*		
Northing (SFT)	2,068,965.9310	
Easting (SFT)	1,211,771.2251	
Elevation (SFT)*		

Convergence Angle	0	11	14.4512906
Scale Factor	0.999995345		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Traffic Signal Box	58	5.64	18.5
MK # 2	Traffic Signal Pole	120	11.37	37.3
MK # 3	9 inch Pine Tree	269	13.90	45.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	GEIOD09
Latitude	34 44 43.6773480
Longitude	92 20 5.0429040
Ellipsoid Height (M):	85.985
Geoid Height (M):	-26.646

Location Description
<p>From Interstate 430 and 630 in West Little Rock, go East on Interstate 630 for 3.2 miles to exit 4 (Fair Park Blvd.). Follow off ramp 0.05 miles to Fair Park Blvd. Turn left, North on Fair Park Blvd. for 0.05 miles to the station on the left. The station is 32 ft. SouthWest from the end of the guardrail. And 23 ft. West of a metal witness post. The station mark is a 2 1/2 in. cap stamped "600074 2012" set ontop of a 5/8 in. by 4.0 ft. rebar driven 0.10 in. below the surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600075	Date Monumented 6/24/2013	Monumented By AHTD	County PULASKI	Route DSEY RC	Job Number: BB0611 BB0612
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	42,190.0105	0.0020	
Easting (M)	382,834.8294	0.0020	
Elevation (M)*	75.469		

Northing (SFT)	138,418.3928		
Easting (SFT)	1,256,017.2695		
Elevation (SFT)*	247.602		

Convergence Angle	0	6	32.5150523
Scale Factor	1.000050494		
Elevation Adjust. Factor	0.9999881566		
Combined Adjust. Factor	1.0000386500		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	34	42	48.4875396
Longitude	92	11	14.5417128
Ellipsoid Height:	48.967		
Grid Northing (Meters)	42,190.0073		
Grid Easting (Meters)	382,834.8214		

Location Description

 TO REACH THE STATION MARK FROM THE JUNCTION OF I 440 AND FOURCHE DAM PIKE (EXIT 5), EAST SOUTHEAST OF LITTLE ROCK, GO SOUTH ON FOURCHE DAM PIKE FOR 0.15 MILES AND TURN LEFT (EAST) ON LINDSEY ROAD AND GO 0.1 MILES TO THE MARK ON THE RIGHT, 66.6 FEET EAST OF THE CENTERLINE OF A CONCRETE DRIVE TO RYERSON, 21.2 FEET NORTH OF A 6 FOOT CHAINLINK FENCE AND SOUTH 41 FEET OF THE CENTERLINE OF LINDSEY ROAD. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600075 2013" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	COMBINATION POLE WITH LIGHT	330	21.76	71.4	PAGIS 2001
MK # 2	MANHOLE	90	20.94	68.7	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT (ARCM - SS)	ELEV. BY S5112 IN JUNE 2013 FOR JOB #BB0611 DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM D 287. **NOTE: USED ELEV. FROM DIGITAL LEVELS AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT IN SUPERCEDED POSITION. *****NOTE: CONSTRAINED ORTHOMETRIC HTS. ON AHTD CORS ARBT, ARLR &
Ref Mon # 2 ARLR (MSB6 - SS)	
Ref Mon # 3 ARWY (P777 - SS)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600076	Date Monumented 12/4/2014	Monumented By AHTD	County PULASKI	Route 70	Job Number: 61448 061475 BB0612,06167
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (2011)		Elevation Datum: NAVD 88
Northing (M) 48,691.1212	0.0020	Geoid Datum: GEIOD12A
Easting (M) 385,580.3053	0.0030	Latitude 34 46 19.6030020
Elevation (M)* 76.482	0.0020	Longitude 92 9 27.0610596
Northing (SFT) 159,747.4535		Ellipsoid Height (M): 49.732 0.0120
Easting (SFT) 1,265,024.7183		Geoid Height (M): -26.701
Elevation (SFT)* 250.924		

Convergence Angle 0 5 29.9723361	Scale Factor 1.000035607
Elevation Adjust. Factor 0.9999879977	Combined Adjust. Factor 1.0000236042

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	81	52.50	172.2
MK # 2	TELEPHONE BOX	232	56.50	185.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR (ARLR - SS)	PREVIOUS ELEVATION (76.4952 m) WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM GALLOWAY 2 RM 1 BY CREW S5114 DURING JOB 061448 IN JAN 2015. *****UPDATE D ELEV. ESTABLISHED BY S5112 IN JAN. 2017 FOR JOB #BB0612 USING DIGITAL LEVELS FROM 1ST ORDER USC&GS BM WPY.
Ref Mon # 2 ARBT (ARBT - SS)	
Ref Mon # 3 ARWY (ARWY - SS)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600076A	Date Monumented 12/4/2014	Monumented By AHTD	County PULASKI	Route 70	Job Number: 61448,BB0620,BB0612,06167
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	48,982.7572 0.0020
Easting (M)	386,212.3239 0.0030
Elevation (M)*	76.246 0.0017
Northing (SFT)	160,704.2626
Easting (SFT)	1,267,098.2660
Elevation (SFT)*	250.151

Convergence Angle	0 5 15.5198031
Scale Factor	1.000034962
Elevation Adjust. Factor	0.9999880346
Combined Adjust. Factor	1.0000229962

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (2011)		
Latitude	34	46	29.0988084
Longitude	92	9	2.2241916
Ellipsoid Height:	49.487		
Grid Northing (Meters)	48,982.7626		
Grid Easting (Meters)	386,212.3247		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	VINYL FENCE CORNER	195	13.00	42.7
MK # 2	COMBINATION POLE	50	25.00	82.0
MK # 3	TELEPHONE BOX	85	14.50	47.6

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARBT Ref Mon # 3 ARWY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.</td> </tr> </table>	Comments	Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.
Comments			
Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.			

Location Description
TO REACH THE STATION MARK FROM THE INTERSECTION OF INTERSTATE 440 AND STATE HIGHWAY 70, IN EAST LITTLE ROCK, GO EAST ON HIGHWAY 70 FOR 0.65 MILES TO THE MARK ON THE RIGHT, 21.5 FEET SOUTH OF THE CENTERLINE OF HIGHWAY, 51 FEET EAST OF THE CENTERLINE OF A GRAVEL DRIVE TO QUALITY TRUCKING, AND NORTH 9 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600076A 2014" ON TOP OF A 4.0 REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	600076
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600077	Date Monumented 1/9/2017	Monumented By AHTD	County Pulaski	Route I-440	Job Number: BB0612
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	44,696.3718	0.0020	
Easting (M)	384,448.1277	0.0020	
Elevation (M)*			
Northing (SFT)	146,641.3465		
Easting (SFT)	1,261,310.2323		
Elevation (SFT)*			

Convergence Angle	0	5	55.7227642
Scale Factor	1.000044630		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CTR OF DI	125	2.74	9.0
MK # 2	NW CORNER OF BR	195	11.58	38.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	GPS DERIVED ELEV. BASED ON ORTHOMETRIC HEIGHT CONSTRAINTS ON AHTD CORS ARBT, ARLR & ARPB IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARLR	
Ref Mon # 3 ARWY, ARPB	

AZ Mark Station	600077A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600077-1	Date Monumented 2/18/2016	Monumented By AHTD	County PULASKI	Route 365	Job Number: 061507
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	61,727.7103 0.0020
Easting (M)	361,758.9758 0.0020
Elevation (M)*	104.357
Northing (SFT)	202,518.3295
Easting (SFT)	1,186,870.9064
Elevation (SFT)*	342.378

Convergence Angle	0 14 36.3494480
Scale Factor	1.000009016
Elevation Adjust. Factor	0.9999836233
Combined Adjust. Factor	0.9999926391

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	111	5.00	16.4
MK # 2	SOUTHWEST CORNER ROCK SIGN	74	25.40	83.3
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARHR Ref Mon # 3 ARLR, P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM R 290 IN FEB. 2016 FOR JOB #061507.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM R 290 IN FEB. 2016 FOR JOB #061507.
Comments			
ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM R 290 IN FEB. 2016 FOR JOB #061507.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 100, IN MAUMELLE, GO WEST ON STATE HIGHWAY 365 1.6 MILES TO THE MARK ON THE RIGHT, NORTH 35.8 FEET OF THE CENTERLINE OF THE HIGHWAY AND EAST 23.5 FEET OF THE CENTERLINE OF AN ASPHALT DRIVE WAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 600077" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	600077A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600077A	Date Monumented 1/9/2017	Monumented By AHTD	County Pulaski	Route 165	Job Number: BB0612
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	44,848.1461 0.0020
Easting (M)	383,977.5996 0.0020
Elevation (M)*	
Northing (SFT)	147,139.2927
Easting (SFT)	1,259,766.5080
Elevation (SFT)*	

Convergence Angle	0	6	6.4914428
Scale Factor	1.000044282		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CP	51	29.38	96.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	GPS DERIVED ELEV. BASED ON ORTHOMETRIC HEIGHT CONSTRAINTS ON AHTD CORS ARBT, ARLR & ARPB IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARLR	
Ref Mon # 3 ARWY,ARPB	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12A
Latitude	34 44 14.8115220
Longitude	92 10 29.8195428
Ellipsoid Height (M):	51.305 0.0040
Geoid Height (M):	-26.633 0.0040

Location Description
FROM JCT OF I-440 & US-165 E OF LITTLE ROCK, GO W 0.3 MI TO STA ON R, ATOP LEVEE.38.7' N OF US-165. 42.4' E OF RD BETWEEN LEVEE BREAK. 29' SW OF S RAIL. STA IS A 2 1/2" ALUM CAP STAMPED "600077A 2017" SET BELOW SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600077A-1	Date Monumented 2/18/2016	Monumented By AHTD	County PULASKI	Route 365	Job Number: 061507
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	61,901.8688 0.0020
Easting (M)	361,250.9813 0.0020
Elevation (M)*	100.832
Northing (SFT)	203,089.7146
Easting (SFT)	1,185,204.2611
Elevation (SFT)*	330.812

Convergence Angle	0 14 48.0079294
Scale Factor	1.000008691
Elevation Adjust. Factor	0.9999841764
Combined Adjust. Factor	0.9999928673

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	281	9.50	31.2
MK # 2	FIRE HYDRANT	296	95.50	313.3
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARHR Ref Mon # 3 ARLR, P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM R 290 IN FEB. 2016 FOR JOB #061507.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM R 290 IN FEB. 2016 FOR JOB #061507.
Comments			
ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM R 290 IN FEB. 2016 FOR JOB #061507.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 100, IN MAUMELLE, GO WEST ON STATE HIGHWAY 365 1.9 MILES TO THE MARK ON THE LEFT, SOUTH 38.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 31 FEET OF THE CENTERLINE OF A DRIVE WAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 600077A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	600077
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600078	Date Monumented 1/9/2017	Monumented By AHTD	County PULASKI	Route I-440	Job Number: BB0612
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	46,027.8413	0.0020			
Easting (M)	385,108.2415	0.0020			
Elevation (M)*					
Northing (SFT)	151,009.6760				
Easting (SFT)	1,263,475.9557				
Elevation (SFT)*					

Convergence Angle	0	5	40.6741056
Scale Factor	1.000041578		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NE OF NE CORNER OF BR	196	13.41	44.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	GPS DERIVED ELEV. BASED ON ORTHOMETRIC HEIGHT CONSTRAINTS ON AHTD CORS ARBT, ARLR & ARPB IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARLR	
Ref Mon # 3 ARWY, ARPB	

Location Description
FROM JCT OF I-440 & US-70 NW OF N LITTLE ROCK, GO W ON I-440 FOR 1.6 MILES TO STA ON L, ATOP BR BANK. 7' E OF EDGE OF CONC OF EASTBOUND LANE I-440. STA IS A 2 1/2" ALUM CAP STAMPED "600078 2017" SET BELOW SURFACE.

AZ Mark Station	600078A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600078A	Date Monumented 1/9/2017	Monumented By AHTD	County PULASKI	Route I-440	Job Number: BB0612
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	45,965.4755	0.0020			
Easting (M)	385,745.0348	0.0020			
Elevation (M)*					
Northing (SFT)	150,805.0642				
Easting (SFT)	1,265,565.1683				
Elevation (SFT)*					

Convergence Angle	0	5	26.1041549
Scale Factor	1.000041718		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	SE OF FE CORNER		307	19.02	62.4
MK # 2	W OF TB BOX		130	5.79	19.0
MK # 3	W OF GUY WIRE		135	6.19	20.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARLR Ref Mon # 3 ARWY, ARPB	GPS DERIVED ELEV. BASED ON ORTHOMETRIC HEIGHT CONSTRAINTS ON AHTD CORS ARBT, ARLR & ARPB IN FINAL STATIC NETWORK ADJUSTMENT.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610001	Date Monumented 1/28/2003	Monumented By AHTD	County RANDOLPH	Route 62	Job Number: 100358
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 213,973.8690		Latitude 36 15 28.6368912
Easting (M) 488,821.6770		Longitude 91 0 41.9174892
Elevation (M)* 101.425		Ellipsoid Height (M): 73.192
		Geoid Height (M): -28.180

Northing (SFT) 702,012.6019		Location Description
Easting (SFT) 1,603,742.4520		<p>TO REACH THE STATION FROM STATE HIGHWAY 62 AND STATE HIGHWAY 166 WEST, WEST OF POCAHONTAS, GO WEST ON HIGHWAY 62 0.31 MILES TO THE STATION ON THE LEFT, 9.10 METERS SOUTH OF THE CENTER OF THE HIGHWAY, 19.40 METERS EAST OF AN ASPH. DRIVE AND 4.65 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "610001 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>
Elevation (SFT)* 332.757		
Convergence Angle 0 34 30.4451105		
Scale Factor 1.000004964		
Elevation Adjust. Factor 0.9999840834		
Combined Adjust. Factor 0.9999890474		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE RISER	100	19.60	64.3	AZ Mark Station 610001A
MK # 2					Geodetic Azimuth 272 25 29
MK # 3					Grid Azimuth 271 50 58

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 AHTD PAR 1</p> <p>Ref Mon # 2 BUTLER, 480016</p> <p>Ref Mon # 3 MEM2 CORS</p>	<p style="text-align: center;">Comments</p> <p>3-wire elevations ran in Job#100608 by S5101 in May 2005 from NGS G-41</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610001A	Date Monumented 1/28/2003	Monumented By AHTD	County RANDOLPH	Route 62	Job Number: 100358
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	214,092.9998	
Easting (M)	496,755.1690	
Elevation (M)*	127.670	
Northing (SFT)	702,403.4502	
Easting (SFT)	1,629,770.9170	
Elevation (SFT)*	418.863	

Convergence Angle	0	37	35.3920919
Scale Factor	1.000005030		
Elevation Adjust. Factor	0.9999799648		
Combined Adjust. Factor	0.9999849947		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD PAR 1 Ref Mon # 2 BUTLER, 480016 Ref Mon # 3 MEM2 CORS	3-wire elevations ran in Job#100608 by S5101 in May 2005 from NGS G-41

Vertical Determined By: LEVEL - Unkown Quality	
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 15 29.8027008
Longitude	90 55 24.0840840
Ellipsoid Height (M):	99.435
Geoid Height (M):	-28.177

Location Description
TO REACH THE STATION FROM STATE HIGHWAY 166 WEST AND STATE HIGHWAY 62, WEST OF POCAHONTAS, GO WEST ON HIGHWAY 62 0.85 MILES TO THE STATION ON THE RIGHT, THE STATION IS 5.8 METERS SOUTH OF A NETWIRE FENCE WITH ONE STRAN OF BARBWIRE, 10.0 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 5.7 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "610001A 2003" ON TOP OF A 0.60 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610002	Date Monumented 1/28/2003	Monumented By AHTD	County RANDOLPH	Route 166	Job Number: 100091,100993
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	220,411.6554	0.0030			
Easting (M)	496,686.0752	0.0030			
Elevation (M)*	87.428				

Northing (SFT)	723,133.9061				
Easting (SFT)	1,629,544.2317				
Elevation (SFT)*	286.838				

Convergence Angle	0	37	35.3920919		
Scale Factor	1.000017218				
Elevation Adjust. Factor	0.9999862798				
Combined Adjust. Factor	1.0000034976				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (1997)				
Latitude	36	18	54.8074296		
Longitude	90	55	24.0855420		
Ellipsoid Height:	59.062				
Grid Northing (Meters)	220,411.6391				
Grid Easting (Meters)	496,686.0390				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	
Ref Mon # 1	MODP
Ref Mon # 2	ARPG
Ref Mon # 3	ARJB

Comments	
ELEVATION BY 3WIRE BY AET FROM NGS POINT H 41 August 2019 for job 100993 by crew S5101 for job 100993	
Updated in	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610002A	Date Monumented 1/28/2003	Monumented By AHTD	County RANDOLPH	Route 166	Job Number: 100091,100993
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	220,757.7780 0.0030
Easting (M)	497,412.8684 0.0030
Elevation (M)*	81.977
Northing (SFT)	724,269.4767
Easting (SFT)	1,631,928.7191
Elevation (SFT)*	268.952

Convergence Angle	0 37 52.4335478
Scale Factor	1.000017898
Elevation Adjust. Factor	0.9999871354
Combined Adjust. Factor	1.0000050331

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36 19 5.7767988		
Longitude	90 54 54.7996248		
Ellipsoid Height:	-28.311		
Grid Northing (Meters)	220,757.7580		
Grid Easting (Meters)	497,412.8320		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MODP Ref Mon # 2 ARPG Ref Mon # 3 ARJB	ELEVATION BY 3WIRE BY AET FROM NGS POINT H 41 Updated in August 2019 for job 100993 by crew S5101 for job 100993

Location Description	
TO REACH THE STATION FROM STATE HIGHWAY 67 AND STATE HIGHWAY 166 EAST, NORTH EAST OF POCAHONTAS, GO EAST ON HIGHWAY 166 FOR 3.25 MILES TO THE STATION ON THE RIGHT, 13.80 METERS SOUTH OFF THE CENTER OF THE HIGHWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "610002A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610003	Date Monumented 10/18/2004	Monumented By AHTD	County RANDOLPH	Route 67	Job Number: 100608 101140 100512
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 214,669.8040		Latitude 36 15 49.8261816
Easting (M) 492,985.0100		Longitude 90 57 54.8587476
Elevation (M)* 85.033		Ellipsoid Height (M): 56.813
		Geoid Height (M): -28.206

Northing (SFT) 704,295.8486	Easting (SFT) 1,617,401.6536	Location Description
Elevation (SFT)* 278.980		<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 67, IN POCAHONTAS, GO NORTH ON STATE HIGHWAY 67 0.7 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST 16.85 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "610003 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>
Convergence Angle 0 36 7.6564466		
Scale Factor 1.000006177		
Elevation Adjust. Factor 0.9999866557		
Combined Adjust. Factor 0.9999928326		

SUPERCEDED CONTROL				
Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER OF CONC SLAB	205	4.90	16.1
MK # 2	COMBINATION POLE	240	37.10	121.7
MK # 3	MANHOLE	210	37.10	121.7

Area Reference Monuments (used for Processing) Ref Mon # 1 610002,610002A Ref Mon # 2 BUTLER Ref Mon # 3 Q 313, MEM2	Comments 3-wire elevations ran in Job#100608 by S5101 in May 2005 from NGS G-41 <div style="text-align: right;">Digital level</div> ran from NGS POINT H 41 by S5101 in JUNE of 2023 during job 101140
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610003A	Date Monumented 10/18/2004	Monumented By AHTD	County RANDOLPH	Route 67	Job Number: 100608
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 214,266.0910		Latitude 36 15 36.8633052
Easting (M) 492,591.1790		Longitude 90 58 10.8043824
Elevation (M)* 88.973		Ellipsoid Height (M): 60.756
Northing (SFT) 702,971.3336		Geoid Height (M): -28.199
Easting (SFT) 1,616,109.5598		
Elevation (SFT)* 291.906		

Convergence Angle 0 35 58.3776956	Scale Factor 1.000005433
Elevation Adjust. Factor 0.9999860374	Combined Adjust. Factor 0.9999914703

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks				
Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
MK # 1				610003
MK # 2				44 53 23
MK # 3				44 17 25

Area Reference Monuments (used for Processing) Ref Mon # 1 610002,610002A Ref Mon # 2 BUTLER Ref Mon # 3 Q 313, MEM2	Comments 3-wire elevations ran in Job#100608 by S5101 in May 2005 from NGS G-41
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610004	Date Monumented 4/15/2013	Monumented By AHTD	County RANDOLPH	Route 67	Job Number: 100759 101140 100512
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	214,242.4635	
Easting (M)	492,578.4508	
Elevation (M)*	87.985	
Northing (SFT)	702,893.8157	
Easting (SFT)	1,616,067.8007	
Elevation (SFT)*	288.663	

Convergence Angle	0	35	58.0752514
Scale Factor	1.000005390		
Elevation Adjust. Factor	0.9999861925		
Combined Adjust. Factor	0.9999915824		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
TO REACH THIS MARK FROM THE INTERSECTION OF HWY. 62 AND HWY. 67, IN POCAHONTAS. GO NORTH ON HWY. 67 FOR 0.4 MILES TO THE STATION MARK ON THE LEFT. THE STATION MARK IS A 2 1/2 IN CAP STAMPED "610004 2013" ON A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. UNDER THE SURFACE.				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTHEAST CORNER OF POCAHONTAS WATER AND SEWER BUILDING	303	13.72	45.0	AZ Mark Station 610003
MK # 2	SOUTHEAST CORNER OF CINDER BLOCK BUILDING	5	15.24	50.0	Geodetic Azimuth
MK # 3	SOUTH END OF RAILING	202	12.19	40.0	Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Elevation was established by S5102 from TBM 908 from job 100608 during job 100759 in April 2013. <div style="text-align: right;">Digital level ran</div> from NGS POINT H 41 by S5101 in JUNE of 2023 during job 101140

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610005	Date Monumented 6/19/2017	Monumented By CLS	County RANDOLPH	Route North Park	Job Number: 100877 101140
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD83 (2011)
Northing (M)	215,827.9268 0.0020
Easting (M)	491,309.0404 0.0020
Elevation (M)*	121.786 0.0047
Northing (SFT)	708,095.4565
Easting (SFT)	1,611,903.0767
Elevation (SFT)*	399.558

Convergence Angle	0 35 28.8678628
Scale Factor	1.000008387
Elevation Adjust. Factor	0.9999808882
Combined Adjust. Factor	0.9999892751

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:		3rd Order - Digital Levels	
Elevation Datum:		NAVD 88	
Geoid Datum:		GEOID12B	
Latitude	36 16	27.9630840	
Longitude	90 59	1.5173520	
Ellipsoid Height (M):	93.441	0.0120	
Geoid Height (M):	-28.333		

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 90 AND NORTH PARK ST., GO SOUTH ON NORTH PARK ST. 0.48 KM (0.3 MI) TO THE STATION ON THE RIGHT. THE STATION IS 24 FT. WEST OF THE CENTERLINE OF NORTH PARK ST. THE MONUMENT IS A 2.5 IN. CAP STAMPED "610005 2017". SET ON TOP OF A 4 FT. 5/8 IN. REBAR.</p>

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					610005A	
MK # 2					2 58 44	
MK # 3					2 23 15	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MODP Ref Mon # 2 ARPG Ref Mon # 3 ARBT	Digital level ran from NGS POINT H 41 by S5101 in JUNE of 2023 during job 101140

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610005A	Date Monumented 6/19/2017	Monumented By CLS	County RANDOLPH	Route North Park	Job Number: 100877 101140
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD83 (2011)
Northing (M)	216,220.5381 0.0020
Easting (M)	491,325.4105 0.0020
Elevation (M)*	119.750 0.0148
Northing (SFT)	709,383.5487
Easting (SFT)	1,611,956.7843
Elevation (SFT)*	392.881

Convergence Angle	0 35 29.3439983
Scale Factor	1.000009133
Elevation Adjust. Factor	0.9999812076
Combined Adjust. Factor	0.9999903405

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:		3rd Order - Digital Levels	
Elevation Datum:		NAVD 88	
Geoid Datum:		GEOID12B	
Latitude	36 16	40.6942680	
Longitude	90 59	0.6991080	
Ellipsoid Height (M):	91.398	0.0120	
Geoid Height (M):	-28.338		

Location Description
<p>TO REACH STATION FROM THE JUNCTION OF HIGHWAY 90 AND NORTH PARK ST., GO SOUTH ON NORTH PARK ST FOR 280 FT. TO THE STATION ON THE LEFT. THE STATION IS 21.5 FT. EAST OF THE CENTERLINE OF NORTH PARK ST. THE MOUNUMENT IS A 2.5 IN. CAP STAMPED "610005A 2017". SET ON TOP OF A 4 FT. 5/8 IN. REBAR.</p>

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						610005
MK # 2						182 58 45
MK # 3						182 23 15

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	MODP	
Ref Mon # 2	ARPG	
Ref Mon # 3	ARBT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610006	Date Monumented 7/19/2017	Monumented By CLS	County RANDOLPH	Route ntry Club	Job Number: 100877 101140
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD83 (2011)
Northing (M)	217,326.2325 0.0010
Easting (M)	490,224.0071 0.0010
Elevation (M)*	134.933 0.0052
Northing (SFT)	713,011.1478
Easting (SFT)	1,608,343.2633
Elevation (SFT)*	442.694

Convergence Angle	0 35 3.9284152
Scale Factor	1.000011275
Elevation Adjust. Factor	0.9999788250
Combined Adjust. Factor	0.9999900998

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude	36	17	16.9305000
Longitude	90	59	44.3757840
Ellipsoid Height:	106.572		
Grid Northing (Meters)	217,326.2297		
Grid Easting (Meters)	490,224.0142		

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHL (MODP)	SUPERCEDED ELEV. BASED ON NGS POINT H 41 WITH A GEOID 12B HT. OF -28.3481m. *****UPDATE D ELEV. BASED ON DIGITAL LEVELS BY S5101 IN JUNE 2023 FOR JOB #101140 FROM NGS PUBLISHED 2ND ORDER BM H 41
Ref Mon # 2 ARJB (ARPG)	
Ref Mon # 3 ARPG, MODP (ARBT)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610006A	Date Monumented 7/19/2017	Monumented By CLS	County RANDOLPH	Route Country Club	Job Number: 100877 101140
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD83 (2011)
Northing (M)	217,682.0530 0.0010
Easting (M)	490,138.2089 0.0010
Elevation (M)*	127.878 0.0052
Northing (SFT)	714,178.5356
Easting (SFT)	1,608,061.7737
Elevation (SFT)*	419.548

Convergence Angle	0 35 2.0123832
Scale Factor	1.000011966
Elevation Adjust. Factor	0.9999799321
Combined Adjust. Factor	0.9999918979

SUPERCEDED CONTROL			
Horizontal Datum	NAD83 (2011)		
Latitude	36	17	28.5019800
Longitude	90	59	47.6684520
Ellipsoid Height:	99.529		
Grid Northing (Meters)	217,682.0504		
Grid Easting (Meters)	490,138.2172		

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHL (MODP)	SUPERCEDED ELEV. BASED ON NGS POINT H 41 WITH A GEOID 12B HT. OF -28.3529m. *****UPDATE D ELEV. BASED ON DIGITAL LEVELS BY S5101 IN JUNE 2023 FOR JOB #101140 FROM NGS PUBLISHED 2ND ORDER BM H 41
Ref Mon # 2 ARJB (ARPG)	
Ref Mon # 3 ARPG, MODP (ARBT)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610007	Date Monumented 11/4/2020	Monumented By ARDOT	County RANDOLPH	Route I 57	Job Number: 100512
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	203,758.9611	0.0020			
Easting (M)	497,334.1928	0.0020			
Elevation (M)*					
Northing (SFT)	668,499.1915				
Easting (SFT)	1,631,670.5975				
Elevation (SFT)*					

Convergence Angle	0	37	46.2416668
Scale Factor	0.999987226		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/GUY	245	16.20	53.1
MK # 2	24" CPP	310	6.40	21.0
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARJB</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARPG</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MODP, MOKE</td> </tr> </table>	Ref Mon # 1	ARJB	Ref Mon # 2	ARPG	Ref Mon # 3	MODP, MOKE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG </td> </tr> </table>	Comments	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 1	ARJB								
Ref Mon # 2	ARPG								
Ref Mon # 3	MODP, MOKE								
Comments									
STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG									

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 67, IN WALNUT RIDGE, GO NORTH ON HIGHWAY 67 FOR 6.28 MILES TO GUM STUMP ROAD AND TURN RIGHT HERE AND GO 2.25 MILES TO THE MARK ON THE RIGHT, 14.8" WEST OF A FIELD ROAD AND 45.4" SOUTHEAST OF THE C/L OF GUM STUMP ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 610007" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	610007A
Geodetic Azimuth	269° 23 ' 56"
Grid Azimuth	268° 46 ' 10"

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610007A	Date Monumented 11/4/2020	Monumented By ARDOT	County RANDOLPH	Route I 57	Job Number: 100512
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	203,750.1192	0.0020			
Easting (M)	496,922.5759	0.0020			
Elevation (M)*					
Northing (SFT)	668,470.1827				
Easting (SFT)	1,630,320.1511				
Elevation (SFT)*					

Convergence Angle	0	37	36.6564642
Scale Factor	0.999987219		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	238	5.43	17.8
MK # 2	POWER POLE	115	7.41	24.3
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610008	Date Monumented 11/4/2020	Monumented By ARDOT	County RANDOLPH	Route I 57	Job Number: 100512
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	206,985.6201	0.0010			
Easting (M)	497,329.8376	0.0020			
Elevation (M)*					
Northing (SFT)	679,085.3219				
Easting (SFT)	1,631,656.3089				
Elevation (SFT)*					

Convergence Angle	0	37	46.9659231		
Scale Factor	0.999992497				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	GUY POLE		273	52.10	170.9
MK # 2	GUY POLE		350	49.50	162.4
MK # 3	WATERWELL		104	30.18	99.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB Ref Mon # 2 ARPG Ref Mon # 3 MODP, MOKE	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid18

Latitude 36 11 39.0258060

Longitude 90 55 4.1943288

Ellipsoid Height (M): 53.331 0.0080

Geoid Height (M): -28.231 0.0080

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 67, IN WALNUT RIDGE, GO NORTH ON HIGHWAY 67 FOR 8.28 MILES TO LONG ROAD ROAD AND TURN RIGHT HERE AND GO 2.28 MILES TO THE MARK ON THE LEFT, 31.8' EAST OF THE C/L OF A FIELD ROAD AND 24.4" SOUTH OF THE C/L OF LONG ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 610008" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610008A	Date Monumented 11/4/2020	Monumented By ARDOT	County RANDOLPH	Route I 57	Job Number: 100512
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	206,976.3619	0.0020			
Easting (M)	496,958.0716	0.0030			
Elevation (M)*					
Northing (SFT)	679,054.9473				
Easting (SFT)	1,630,436.6066				
Elevation (SFT)*					

Convergence Angle	0	37	38.3052370
Scale Factor	0.999992488		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAILBOX 1952 LONG ROAD	283	27.07	88.8
MK # 2				
MK # 3				

AZ Mark Station	610008
Geodetic Azimuth	89° 12 ' 3"
Grid Azimuth	88° 34 ' 24"

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610009	Date Monumented 11/3/2020	Monumented By AHTD	County Randolph	Route I-57	Job Number: 100512
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	210,229.0593	0.0020			
Easting (M)	498,283.8051	0.0020			
Elevation (M)*					
Northing (SFT)	689,726.5054				
Easting (SFT)	1,634,786.1172				
Elevation (SFT)*					

Convergence Angle	0	38	10.0222108
Scale Factor	0.999998037		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS LINE CHECK VALVE	308	17.43	57.2
MK # 2	GRAIN SILO	120	12.19	40.0
MK # 3	WATER WELL	192	12.62	41.4

Area Reference Monuments (used for Processing) Ref Mon # 1 ARJB Ref Mon # 2 ARPG Ref Mon # 3 MODP, MOKE	Comments STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
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Location Description			
THE INTERSECTION OF US HWY 67/US HWY 62 AND STATE HWY 304 IN POCAHONTAS, AR. GO EAST ON STATE HWY 304 FOR 2.81 MILES TO ATORRD ROAD ON THE RIGHT. GO SOUTH ON ATORRD ROAD FOR 0.99 MILES TO MARTIN ROAD. GO EAST ON MARTIN ROAD FOR 0.05 MILES TO THE STATION ON THE RIGHT. THE POINT IS 19.5' SOUTH OF THE CL OF MARTIN ROAD.			

AZ Mark Station	610009A
Geodetic Azimuth	272° 12 ' 11"
Grid Azimuth	271° 34 ' 1"

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610009A	Date Monumented 11/3/2020	Monumented By AHTD	County Randolph	Route I-57	Job Number: 100512
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	210,241.3549	0.0020			
Easting (M)	497,834.3152	0.0020			
Elevation (M)*					
Northing (SFT)	689,766.8452				
Easting (SFT)	1,633,311.4158				
Elevation (SFT)*					

Convergence Angle	0	37	59.5530730
Scale Factor	0.999998067		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	250	6.09	20.0
MK # 2	GAS LINE MARKER	263	19.93	65.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

AZ Mark Station	610009
Geodetic Azimuth	92° 12 ' 0"
Grid Azimuth	91° 34 ' 1"

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610010	Date Monumented 11/4/2020	Monumented By AHTD	County Randolph	Route I-57	Job Number: 100512
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	213,949.7798	0.0010			
Easting (M)	499,035.3934	0.0020			
Elevation (M)*					
Northing (SFT)	701,933.5692				
Easting (SFT)	1,637,251.9532				
Elevation (SFT)*					

Convergence Angle	0	38	28.5030585
Scale Factor	1.000004719		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610010A	Date Monumented 11/4/2020	Monumented By AHTD	County Randolph	Route I-57	Job Number: 100512
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	213,942.5605	0.0020			
Easting (M)	498,632.2684	0.0020			
Elevation (M)*					
Northing (SFT)	701,909.8839				
Easting (SFT)	1,635,929.3672				
Elevation (SFT)*					

Convergence Angle	0	38	19.1051679
Scale Factor	1.000004714		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER PUMP ON BANK OF CURRENT RIVE	0	20.73	68.0
MK # 2				
MK # 3				

AZ Mark Station	610010
Geodetic Azimuth	89° 36 ' 46"
Grid Azimuth	88° 58 ' 27"

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610011	Date Monumented 11/3/2020	Monumented By AHTD	County Randolph	Route I-57	Job Number: 100512
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	215,968.4607	0.0020			
Easting (M)	501,497.3747	0.0020			
Elevation (M)*					
Northing (SFT)	708,556.5248				
Easting (SFT)	1,645,329.3035				
Elevation (SFT)*					

Convergence Angle	0	39	26.4264017
Scale Factor	1.000008443		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	24" CMP	280	3.35	11.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB Ref Mon # 2 ARPG Ref Mon # 3 MODP, MOKE	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610011A	Date Monumented 11/3/2020	Monumented By AHTD	County Randolph	Route I-57	Job Number: 100512
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	215,961.2392	0.0020			
Easting (M)	501,898.3059	0.0030			
Elevation (M)*					
Northing (SFT)	708,532.8323				
Easting (SFT)	1,646,644.6919				
Elevation (SFT)*					

Convergence Angle	0	39	35.7714082
Scale Factor	1.000008421		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	IRRIGATION GATE	16	15.48	50.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid18
Latitude	36 16 28.5365640
Longitude	90 51 57.2109156
Ellipsoid Height (M):	52.232 0.0070
Geoid Height (M):	-28.365 0.0070

Location Description
THE INTERSECTION OF US HWY 67/US HWY 62 AND STATE HWY 166 IN POCAHONTAS, AR. GO NORTH ON US HWY 67/US HWY 62 FOR 5.31 MILES TO SKAGGS FERRY ROAD ON THE RIGHT.GO SOUTH ON SKAGGS FERRY ROAD FOR 2.00 MILES TO A FIELD ROAD ON THE RIGHT. GO WEST ON THE FIELD ROAD FOR 0.22 MILES TO THE STATION ON THE LEFT. THE POINT IS 22.7' SOUTH OF THE FIELD ROAD.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610012	Date Monumented 11/3/2020	Monumented By AHTD	County Randolph	Route I-57	Job Number: 100512
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	217,951.0217	0.0010			
Easting (M)	503,925.8827	0.0020			
Elevation (M)*					
Northing (SFT)	715,060.9770				
Easting (SFT)	1,653,296.8335				
Elevation (SFT)*					

Convergence Angle	0	40	23.5853745
Scale Factor	1.000012195		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	175	18.01	59.1
MK # 2	POWER POLE WITH GY	234	17.31	56.8
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARJB Ref Mon # 2 ARPG Ref Mon # 3 MODP, MOKE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG </td> </tr> </table>	Comments	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Comments			
STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG			

Location Description
THE INTERSECTION OF US HWY. 67/US HWY. 62 AND STATE HWY. 166. GO NORTH ON US HWY 67/US HWY. 62 FOR 5.96 MILES TO BRIMNAGE ROAD ON THE RIGHT. GO SOUTH ON BRIMNAGE ROAD FOR 0.40 MILES TO THE STATION ON THE RIGHT. THE POINT IS 17.2' WEST OF THE CL OF BRIMNAGE ROAD.

AZ Mark Station	610012A
Geodetic Azimuth	181° 3 ' 57"
Grid Azimuth	180° 23 ' 33"

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610012A	Date Monumented 11/3/2020	Monumented By AHTD	County Randolph	Route I-57	Job Number: 100512
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	217,562.7089	0.0020			
Easting (M)	503,923.2227	0.0020			
Elevation (M)*					
Northing (SFT)	713,786.9874				
Easting (SFT)	1,653,288.1065				
Elevation (SFT)*					

Convergence Angle	0	40	23.4169580
Scale Factor	1.000011442		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	90	6.10	20.0
MK # 2	GAS LINE MARKER	180	30.50	100.1
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB Ref Mon # 2 ARPG Ref Mon # 3 MODP, MOKE	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

Vertical Determined By: GPS - Unknown Quality	
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid18
Latitude	36 17 19.7246004
Longitude	90 50 35.3315184
Ellipsoid Height (M):	53.261 0.0050
Geoid Height (M):	-28.384 0.0050

Location Description
THE INTERSECTION OF US HWY. 67/US HWY. 62 AND STATE HWY. 166. GO NORTH ON US HWY 67/US HWY. 62 FOR 5.96 MILES TO BRIMNAGE ROAD ON THE RIGHT. GO SOUTH ON BRIMNAGE ROAD FOR 0.67 MILES TO THE STATION ON THE LEFT. THE POINT IS 11.3' EAST OF THE CL OF BRIMNAGE ROAD.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610013	Date Monumented 11/4/2020	Monumented By ARDOT	County RANDOLPH	Route I 57	Job Number: 100512
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	219,986.7603	0.0020			
Easting (M)	506,815.6259	0.0020			
Elevation (M)*					
Northing (SFT)	721,739.8961				
Easting (SFT)	1,662,777.5993				
Elevation (SFT)*					

Convergence Angle	0	41	31.5420897
Scale Factor	1.000016135		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/GUY	130	17.71	58.1
MK # 2	POWWER POLE W/GUY	31	19.05	62.5
MK # 3	GAS PIP	340	16.31	53.5

Area Reference Monuments (used for Processing) Ref Mon # 1 ARJB Ref Mon # 2 ARPG Ref Mon # 3 MODP, MOKE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG </td> </tr> </table>	Comments	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Comments			
STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67/62 AND STATE HIGHWAY 166, NORTHEAST OF POCAHONTAS, GO NORTH ON HIGHWAY 67/62 FOR 7.36 MILES TO LUTRELL CEMETERY ROAD AND TURN RIGHT HERE AND GO 0.72 MILES TO THE MARK ON THE RIGHT, 34.4' SOUTH OF THE C/L OF THE ROAD AND 61.7' WEST OF THE C/L OF QUAPAW TRAIL. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 610013" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610013A	Date Monumented 11/4/2020	Monumented By ARDOT	County RANDOLPH	Route I 57	Job Number: 100512
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	219,962.6765	0.0020			
Easting (M)	507,265.8390	0.0020			
Elevation (M)*					
Northing (SFT)	721,660.8812				
Easting (SFT)	1,664,254.6735				
Elevation (SFT)*					

Convergence Angle	0	41	42.0357518
Scale Factor	1.000016076		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER PUMP	181	13.59	44.6
MK # 2	WATER WELL	135	5.33	17.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2 ARPG	
Ref Mon # 3 MODP, MOKE	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid18
Latitude	36 18 36.2848968
Longitude	90 48 20.2242636
Ellipsoid Height (M):	58.273 0.0060
Geoid Height (M):	-28.414 0.0060

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67/62 AND STATE HIGHWAY 166, NORTHEAST OF POCAHONTAS, GO NORTH ON HIGHWAY 67/62 FOR 7.36 MILES TO LUTRELL CEMETERY ROAD AND TURN RIGHT HERE AND GO 1.0 MILES TO THE MARK ON THE RIGHT, 35.7" EAST OF THE C/L OF THE ROAD AND 20.6" NORTH OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 610013A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610014	Date Monumented 11/4/2020	Monumented By ARDOT	County RANDOLPH	Route JUTHRIE E	Job Number: 100512
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	221,514.1537	0.0020	
Easting (M)	509,708.7079	0.0020	
Elevation (M)*			
Northing (SFT)	726,751.0193		
Easting (SFT)	1,672,269.3192		
Elevation (SFT)*			

Convergence Angle	0	42	39.4602871
Scale Factor	1.000019137		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARJB</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARPG</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MODP, MOKE</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARJB	Ref Mon # 2	ARPG	Ref Mon # 3	MODP, MOKE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG </td> </tr> </table>	Comments	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARJB										
Ref Mon # 2	ARPG										
Ref Mon # 3	MODP, MOKE										
Comments											
STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG											

Location Description			
610014 TO REACH THE STATION MARK FROM THE JCT OF US-67 & SR-328 IN REYNO, GO SOUTH ON US-67 0.5 TO DUCK LEVEE RD, THEN GO SOUTH 2.0 MILES TO LAWNBITD RD, THEN GO WEST 1.0 MILES TO GUTHRIE RD, THEN GO SOUTH 0.1 MILES TO STATION ON THE RIGHT. 46' WEST OF C/L GUTHRIE RD. 37' SOUTH OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "610014 2020" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid18
Latitude	36 19 25.6419768
Longitude	90 46 41.5395732
Ellipsoid Height (M):	58.891 0.0050
Geoid Height (M):	-28.442 0.0050

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610014A	Date Monumented 11/4/2020	Monumented By ARDOT	County RANDOLPH	Route GUTHRIE RD	Job Number: 100512
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	221,147.6188	0.0020	
Easting (M)	509,722.0909	0.0020	
Elevation (M)*			
Northing (SFT)	725,548.4793		
Easting (SFT)	1,672,313.2266		
Elevation (SFT)*			

Convergence Angle	0	42	39.6663646
Scale Factor	1.000018394		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	330	32.31	106.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARJB	STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG
Ref Mon # 2: ARPG	
Ref Mon # 3: MODP, MOKE	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620001A	Date Monumented 3/23/1990	Monumented By AHTD	County SALINE	Route 183	Job Number: R60085
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	612,739.3199	
Easting (M)	354,728.2410	
Elevation (M)*		
Northing (SFT)	2,010,295.5854	
Easting (SFT)	1,163,804.2373	
Elevation (SFT)*		

Convergence Angle	0	16	34.2560139
Scale Factor	0.999964320		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 10" CEDAR	170	21.86	71.7
MK # 2	NBC IN POWER POLE	277	26.71	87.6
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 PERKINS Ref Mon # 2 GOOSEPOND 2 Ref Mon # 3 PAGIS 1006	Old point number 90620001A. Mark has been disturbed as per MSK 05/15/07.

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 35 1.4265672
Longitude	92 29 36.4383744
Ellipsoid Height (M):	
Geoid Height (M):	-27.318

Location Description
THE STATION IS 0.4 MILES SOUTH OF AHTD GPS STATION 90620001, AROUND CURVE, 240 FEET SOUTH OF HILL STREET, .55 FEET WEST OF A FENCE, 35.5 FEET EAST OF THE CENTERLINE OF HWY. 183 AND SOUTH OF A WIRE GATE GOING INTO A FIELD ACROSS HWY. 183 FROM CONVEYER BUILDING MATERIALS CO..

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620002	Date Monumented 3/23/1990	Monumented By AHTD	County SALINE	Route 183	Job Number: R60085
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	615,652.4189	
Easting (M)	354,647.1070	
Elevation (M)*		
Northing (SFT)	2,019,852.9777	
Easting (SFT)	1,163,538.0502	
Elevation (SFT)*		

Convergence Angle	0	16	36.3468817
Scale Factor	0.999968813		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	PUNCH POINT AT JCT OF SIDEWALKS	355	4.40	14.4	
MK # 2	PUNCH POINT AT JCT OF SIDEWALKS	115	6.51	21.4	
MK # 3	NBC IN COMBINATION POLE	226	9.01	29.6	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 PERKINS Ref Mon # 2 GOOSEPOND 2 Ref Mon # 3 PAGIS 1006	Old point number 90620002 *****REPORTED DESTROYED 2012*****

Location Description	
THE STATION IS NEAR THE FRONT ENTRANCE OF GRACE BAPTIST CHURCH, 35 FEET NORTH OF PRICKETT ROAD ON A GRASSY AREA BETWEEN THE CHURCH AND THE HANDICAPPED PARKING AREA AND 230 FEET WEST OF HWY. 138.	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 36 35.9516916
Longitude	92 29 40.1741304
Ellipsoid Height (M):	
Geoid Height (M):	-27.382

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620004	Date Monumented 9/1/1993	Monumented By AHTD	County SALINE	Route 30	Job Number: 60209
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	606,966.4659	
Easting (M)	337,736.0420	
Elevation (M)*	135.706	
Northing (SFT)	1,991,355.8135	
Easting (SFT)	1,108,055.6645	
Elevation (SFT)*	445.229	

Convergence Angle	0	22	46.5883883
Scale Factor	0.999955903		
Elevation Adjust. Factor	0.9999787038		
Combined Adjust. Factor	0.9999346077		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 12" GUM	80	30.71	100.8
MK # 2	NBC IN DOUBLE 6" GUM	103	30.31	99.4
MK # 3	NBC IN 16" PINE	119	34.43	113.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ADAMS 2	
Ref Mon # 2 MALEPORT	
Ref Mon # 3 SALIPORT	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 31 50.9245536
Longitude	92 40 41.6850600
Ellipsoid Height (M):	108.268
Geoid Height (M):	-27.438

Location Description
<p>FROM THE HWY. 70 OVERPASS (EXIT 111) ON I-30, GO WEST ON I-30 FOR 0.322 KM (0.20 MILES) TO THE STATION ON THE LEFT, THE STATION IS SET IN THE ASPHALT MEDIAN CROSSOVER, 6.341 METERS FROM THE INSIDE EDGE OF THE WESTBOUND CONCRETE LANE, 5.731 METERS FROM THE INSIDE EDGE OF THE EASTBOUND CONCRETE LANE AND 4.00 METERS SOUTH OF A WITNESS POST.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620004A	Date Monumented 9/1/1993	Monumented By AHTD	County SALINE	Route 30	Job Number: 9,061256,061330,BB0602,CA
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	606,705.7436
Easting (M)	337,594.4271
Elevation (M)*	135.803
Northing (SFT)	1,990,500.4271
Easting (SFT)	1,107,591.0496
Elevation (SFT)*	445.548

Convergence Angle	0 22 49.6585070
Scale Factor	0.999955548
Elevation Adjust. Factor	0.9999786885
Combined Adjust. Factor	0.9999342374

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	31	42.4328808
Longitude	92	40	47.1702504
Ellipsoid Height:	109.477		
Grid Northing (Meters)	606,705.7449		
Grid Easting (Meters)	337,594.4320		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 6" PINE	295	28.56	93.7
MK # 2	NBC IN DOUBLE 12" PINE	314	28.58	93.8
MK # 3	NBC IN 16" GUM	349	42.74	140.2

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARLR, AB8283</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARHP</td> </tr> </table>	Ref Mon # 1	ARLR, AB8283	Ref Mon # 2	ARCM	Ref Mon # 3	ARHP	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> PREVIOUS SUPERCEDED INFORMATION: HORIZONTAL DATUM: NAD 83 (1986) LATITUDE: 34-31-42.4439400 LONGITUDE: 92-40-47.1613692 ELLIPSOID HEIGHT: 108.385 NORTHING (METERS): 606,706.0841 EASTING (METERS): 337,594.6608 </td> </tr> </table> <div style="text-align: right; margin-top: 20px;"> GRID GRID </div>	Comments	PREVIOUS SUPERCEDED INFORMATION: HORIZONTAL DATUM: NAD 83 (1986) LATITUDE: 34-31-42.4439400 LONGITUDE: 92-40-47.1613692 ELLIPSOID HEIGHT: 108.385 NORTHING (METERS): 606,706.0841 EASTING (METERS): 337,594.6608
Ref Mon # 1	ARLR, AB8283								
Ref Mon # 2	ARCM								
Ref Mon # 3	ARHP								
Comments									
PREVIOUS SUPERCEDED INFORMATION: HORIZONTAL DATUM: NAD 83 (1986) LATITUDE: 34-31-42.4439400 LONGITUDE: 92-40-47.1613692 ELLIPSOID HEIGHT: 108.385 NORTHING (METERS): 606,706.0841 EASTING (METERS): 337,594.6608									

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620004A-1	Date Monumented	Monumented By AHTD	County Saline	Route 30	Job Number: 061256
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1986)
Northing (M)	606,706.0839
Easting (M)	337,594.6610
Elevation (M)*	135.819
Northing (SFT)	1,990,501.5436
Easting (SFT)	1,107,591.8170
Elevation (SFT)*	445.600

Convergence Angle	0 22 49.6534235
Scale Factor	0.999955549
Elevation Adjust. Factor	0.9999786860
Combined Adjust. Factor	0.9999342360

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
<p>FROM THE HWY. 70 OVERPASS (EXIT 111) ON I-30, GO WEST ON I-30 FOR 0.628 KM (0.39 MILES) TO THE STATION ON THE LEFT, THE STATION IS IN THE GRASS MEDIAN, 10.502 METERS EAST OF THE EDGE OF THE WESTBOUND CONCRETE LANES, 7.765 METERS WEST OF THE EDGE OF THE EASTBOUND LANES CONCRETE AND 0.610 METERS NORTH OF A WITNESS POST.</p>	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 6" PINE	295	28.56	93.7
MK # 2	NBC IN DOUBLE 12" PINE	314	28.58	93.8
MK # 3	NBC IN 16" GUM	349	42.74	140.2

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 Saliport, Saliport Az.</p> <p>Ref Mon # 2 ARCM, ARHP</p> <p>Ref Mon # 3 CSAL</p>	<p style="text-align: center;">Comments</p> <p>Digital Levels were ran by crew S5101 in March 2010 from NGS mark Saliport AZ in job 061256.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620005	Date Monumented 9/1/1993	Monumented By AHTD	County SALINE	Route 30	Job Number: 60209
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	608,303.6549	
Easting (M)	341,677.5490	
Elevation (M)*	109.746	
Northing (SFT)	1,995,742.9078	
Easting (SFT)	1,120,987.0920	
Elevation (SFT)*	360.058	

Convergence Angle	0	21	20.2634486
Scale Factor	0.999957781		
Elevation Adjust. Factor	0.9999827776		
Combined Adjust. Factor	0.9999405593		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	"X" CUT IN CONCRETE GUARD RAIL POST	145	14.20	46.6
MK # 2	"X" CUT IN CONCRETE GUARD RAIL POST	170	13.44	44.1
MK # 3	"X" CUT IN CONCRETE GUARD RAIL POST	190	15.11	49.6

Area Reference Monuments (used for Processing) Ref Mon # 1 ADAMS 2 Ref Mon # 2 MALEPORT Ref Mon # 3 SALIPORT	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 32 35.1410892
Longitude	92 38 7.4481900
Ellipsoid Height (M):	82.343
Geoid Height (M):	-27.404

Location Description
FROM THE HWY. 70 OVERPASS (EXIT 111) ON I-30 SOUTH OF BENTON, GO EAST ON I-30 FOR 4.15 KM (2.58 MILES) TO THE STATION ON THE RIGHT, THE STATION IS CLOSE TO A DESERTED GAS STATION, 3.825 METERS SOUTH OF THE EDGE OF THE EASTBOUND CONCRETE LANES AND 13.90 METERS NORTH OF A WITNESS POST.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620005A	Date Monumented 9/1/1993	Monumented By AHTD	County SALINE	Route 30	Job Number: 60209
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	608,124.7478	
Easting (M)	341,091.0660	
Elevation (M)*	113.995	
Northing (SFT)	1,995,155.9434	
Easting (SFT)	1,119,062.9390	
Elevation (SFT)*	373.999	

Convergence Angle	0	21	33.1126556
Scale Factor	0.999957527		
Elevation Adjust. Factor	0.9999821108		
Combined Adjust. Factor	0.9999396385		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NONE	0			0.00	0.0
MK # 2	NONE	0			0.00	0.0
MK # 3	NONE	0			0.00	0.0

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ADAMS 2</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MALEPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SALIPOINT</td> </tr> </table>	Ref Mon # 1	ADAMS 2	Ref Mon # 2	MALEPORT	Ref Mon # 3	SALIPOINT	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ADAMS 2							
Ref Mon # 2	MALEPORT							
Ref Mon # 3	SALIPOINT							
Comments								

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 32 29.2162884
Longitude	92 38 30.4058832
Ellipsoid Height (M):	86.586
Geoid Height (M):	-27.409

Location Description
FROM THE HWY. 70 OVERPASS (EXIT 111) ON I-30 SOUTH OF BENTON, GO EAST ON I-30 3.54 KM (2.20 MILES) TO THE STATION ON THE RIGHT, THE STATION IS 17.663 METERS NORTH OF A SERVICE ROAD, 4.039 METERS SOUTH OF THE EDGE OF THE EASTBOUND CONCRETE LANES AND 1.50 METERS NORTH OF A WITNESS POST.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620011	Date Monumented 3/22/1994	Monumented By AHTD	County SALINE	Route N/A	Job Number: R60093
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	597,032.6999	
Easting (M)	343,279.7390	
Elevation (M)*	78.516	
Northing (SFT)	1,958,764.7829	
Easting (SFT)	1,126,243.6104	
Elevation (SFT)*	257.598	

Convergence Angle	0	20	43.6022104
Scale Factor	0.999943645		
Elevation Adjust. Factor	0.9999876784		
Combined Adjust. Factor	0.9999313241		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 229 & 291 IN TRASKWOOD GO EASTERLY ON HWY-291 FOR 4.02 KM. (2.5 MI.) TO A JUNCTION WITH " HOLY CIRCLE ROAD "ON THE RIGHT. GO RIGHT AND SOUTHWESTERLY ON " HOLY CIRCLE ROAD " FOR 0.08 KM.(0.05 MI.) TO THE STATION ON THE RIGHT. 5.70 METERS NORTHWEST OF THE CENTER OF " HOLY CIRCLE ROAD ", 18.0 METERS NORTHEAST OF A FIELD DRAINAGE DITCH AND 0.54 METERS NORTHWEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD CAP STAMPED " 620011 " SET ON TOP OF AN IRON ROD 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	620011A
Geodetic Azimuth	196 45 56.97075
Grid Azimuth	197 06 40.55861

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Cross Reference Job: RX0026
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620011A	Date Monumented 3/22/1994	Monumented By AHTD	County SALINE	Route N/A	Job Number: R60093
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Zone Arkansas South	Zone Code 302	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 596,617.8848		Latitude 34 26 16.1896524
Easting (M) 343,152.0360		Longitude 92 37 6.8498112
Elevation (M)* 77.458		Ellipsoid Height (M): 50.278
		Geoid Height (M): -27.180

Northing (SFT) 1,957,403.8437		
Easting (SFT) 1,125,824.6381		
Elevation (SFT)* 254.127		

Convergence Angle 0 20 46.3471003		
Scale Factor 0.999943184		
Elevation Adjust. Factor 0.9999878445		
Combined Adjust. Factor 0.9999310292		

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 229 & 291 IN TRASKWOOD, GO EASTERLY ON HWY-291 FOR 4.02 KM. (2.50 MI.) TO THE JUNCTION WITH "HOLY CIRCLE ROAD" ON THE RIGHT. GO RIGHT AND SOUTHWESTERLY ON "HOLY CIRCLE ROAD" FOR 0.51 KM.(2.5 MI.) TO THE STATION ON THE LEFT. 5.70 METERS SOUTHEAST OF THE CENTER OF THE GRAVELED "HOLY CIRCLE ROAD" AND 1.15 METERS SOUTHEAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD CAP STAMPED "620011A" SET ON TOP OF AN IRON ROD 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station 620011	
Geodetic Azimuth 16 45 54.19718	
Grid Azimuth 17 06 40.558607	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SALIPOINT	Cross Reference Job: RX0026
Ref Mon # 2 MALEPOINT	
Ref Mon # 3 93620004	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620012	Date Monumented 3/22/1994	Monumented By AHTD	County SALINE	Route 190	Job Number: 001730
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	600,144.4509	
Easting (M)	348,034.6400	
Elevation (M)*	116.708	
Northing (SFT)	1,968,973.9193	
Easting (SFT)	1,141,843.6481	
Elevation (SFT)*	382.899	

Convergence Angle	0	18	59.7293282
Scale Factor	0.999947270		
Elevation Adjust. Factor	0.9999816850		
Combined Adjust. Factor	0.9999289560		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 SALIPOINT Ref Mon # 2 MALEPORT Ref Mon # 3 93620004	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Cross Reference Job: RX0026</td> </tr> </table>	Comments	Cross Reference Job: RX0026
Comments			
Cross Reference Job: RX0026			

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 28 11.5572180
Longitude	92 33 56.3557140
Ellipsoid Height (M):	89.540
Geoid Height (M):	-27.168

Location Description
FROM THE JCT. OF HWY. 35 AND HWY. 190 IN THE VILLAGE OF SHAW (LOCATED ABOUT 8.0 KM BY AIR SOUTHEAST OF BENTON), GO WEST ON HWY. 190 FOR 4.35 KM (2.70 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 15.60 METERS NORTHWEST OF THE CENTERLINE OF HWY. 190, 7.00 METERS NORTHEAST OF A GRAVEL DRIVEWAY AND 0.44 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "620012" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620012A	Date Monumented 3/22/1994	Monumented By AHTD	County SALINE	Route N/A	Job Number: 001730
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	600,263.2219				
Easting (M)	347,925.1190				
Elevation (M)*	113.608				
Northing (SFT)	1,969,363.5872				
Easting (SFT)	1,141,484.3279				
Elevation (SFT)*	372.729				

Convergence Angle	0	19	2.1457695
Scale Factor	0.999947411		
Elevation Adjust. Factor	0.9999821715		
Combined Adjust. Factor	0.9999295835		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>FROM THE JCT. OF HWY. 35 AND HWY. 190 IN THE VILLAGE OF SHAW (LOCATED ABOUT 8.00 KM BY AIR SOUTHEAST OF BENTON), GO WEST ON HWY. 190 FOR 4.35 KM (2.70 MILES) TO A GRAVEL DRIVEWAY ON THE RIGHT LEADING TO A GRAY BRICK HOUSE, GO RIGHT (NORTHWEST) ON THIS DRIVEWAY FOR 0.16 KM (0.10 MILES) PASSING BY A TOWER AND FENCED IN AREA TO A POWER LINE RIGHT-OF-WAY AND A POWER POLE WITH AN AHTD WITNESS POST DRIVEN IN FRONT OF IT AND THE STATION. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "620012A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.76 METERS SOUTHEAST OF THE POWER POLE AND IS FLUSH WITH THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station
MK # 2	NONE				Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	<p>Cross Reference Job: RX0026</p>
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620013	Date Monumented 3/22/1994	Monumented By AHTD	County SALINE	Route 35	Job Number: 001730
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	603,058.2719				
Easting (M)	350,450.3920				
Elevation (M)*	114.090				
Northing (SFT)	1,978,533.6804				
Easting (SFT)	1,149,769.3278				
Elevation (SFT)*	374.310				

Convergence Angle	0	18	7.0837055
Scale Factor	0.999950869		
Elevation Adjust. Factor	0.9999820959		
Combined Adjust. Factor	0.9999329658		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	183	31.00	101.7
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 SALIPOINT Ref Mon # 2 MALEPOINT Ref Mon # 3 93620004	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Cross Reference Job: RX0026</td> </tr> </table>	Comments	Cross Reference Job: RX0026
Comments			
Cross Reference Job: RX0026			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	29	46.5448272
Longitude	92	32	22.2937188
Ellipsoid Height (M):	86.904		
Geoid Height (M):	-27.186		

Location Description
FROM THE JCT. OF HWY. 35 AND HWY. 190 IN THE VILLAGE OF SHAW (LOCATED ABOUT 8.00 KM BY AIR SOUTHEAST OF BENTON), GO SOUTH ON HWY. 35 FOR 0.24 KM (0.15 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 12.30 METERS WEST OF THE CENTERLINE OF HWY. 35, 9.50 METERS SOUTH OF THE CENTER OF JENSEN STREET, 25.95 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF HUCKABY'S COUNTRY STORE AND 2.52 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "6200013" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620013A	Date Monumented 3/22/1994	Monumented By AHTD	County SALINE	Route 35	Job Number: 001730
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	602,549.7019	
Easting (M)	350,448.3130	
Elevation (M)*	107.906	
Northing (SFT)	1,976,865.1470	
Easting (SFT)	1,149,762.5069	
Elevation (SFT)*	354.022	

Convergence Angle	0	18	7.0705120
Scale Factor	0.999950229		
Elevation Adjust. Factor	0.9999830663		
Combined Adjust. Factor	0.9999332962		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	170	11.80	38.7
MK # 2	TELEPHONE JUNCTION BOX	185	11.90	39.0
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 SALIPOINT Ref Mon # 2 MALEPORT Ref Mon # 3 93620004	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Cross Reference Job: RX0026</td> </tr> </table>	Comments	Cross Reference Job: RX0026
Comments			
Cross Reference Job: RX0026			

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 29 30.0395112
Longitude	92 32 22.2701460
Ellipsoid Height (M):	80.729
Geoid Height (M):	-27.177

Location Description
FROM THE JCT. OF HWY. 35 AND HWY. 190 IN THE VILLAGE OF SHAW (LOCATED ABOUT 8.00 KM BY AIR SOUTHEAST OF BENTON), GO SOUTH ON HWY. 35 FOR 0.75 KM (0.47 MILES) TO THE STATION ON THE LEFT. THE STATION IS 21.00 METERS NORTH OF THE CENTER OF AN OLD DRIVEWAY, 12.80 METERS EAST OF THE CENTERLINE OF HWY. 35 AND 0.96 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "620013A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620014	Date Monumented 12/6/2001	Monumented By AHTD	County SALINE	Route 167	Job Number: 061035
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	603,010.1029	
Easting (M)	368,241.4150	
Elevation (M)*		
Northing (SFT)	1,978,375.6459	
Easting (SFT)	1,208,138.7090	
Elevation (SFT)*		

Convergence Angle	0	11	36.7613488
Scale Factor	0.999950906		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE GRANT-SALINE COUNTY LINE, LOCATED ABOUT 22.53 KM (14.0 MI) NORTH OF SHERIDAN ON U.S. HIGHWAY 167, GO NORTH ON U.S. HIGHWAY 167 FOR 0.161 KM (0.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.20 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "620014 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: SALIPORT</p> <p>Ref Mon # 2: PAGIS 1001</p> <p>Ref Mon # 3: 270009</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620015	Date Monumented 12/6/2001	Monumented By AHTD	County SALINE	Route 167	Job Number: 061035,001847
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	606,342.2469	
Easting (M)	369,042.9020	
Elevation (M)*	90.162	
Northing (SFT)	1,989,307.8550	
Easting (SFT)	1,210,768.2543	
Elevation (SFT)*	295.805	

Convergence Angle	0	11	19.4182074
Scale Factor	0.999955268		
Elevation Adjust. Factor	0.9999858509		
Combined Adjust. Factor	0.9999411195		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE GRANT-SALINE COUNTY LINE, LOCATED ABOUT 22.53 KM (14.0 MI) NORTH OF SHERIDAN ON U.S. HIGHWAY 167, GO NORTH ON U.S. HIGHWAY 167 FOR 3.589 KM (2.23 MI) TO THE JUNCTION OF STATE HIGHWAY 367 AND THE STATION ON THE LEFT. THE STATION IS 23.50 METERS NORTH WEST OF THE CENTER OF U.S. HIGHWAY 167, 14.70 METERS SOUTH EAST OF THE CENTER OF STATE HIGHWAY 367, AND 0.50 METERS SOUTH EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "620015 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 499.638 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORRIGATED METAL PIPE	58	31.40	103.0
MK # 2	POWER POLE	253	33.00	108.3
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text" value="SALIPOINT"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text" value="PAGIS 1001"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text" value="270009"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620016	Date Monumented 12/6/2001	Monumented By AHTD	County SALINE	Route I 530	Job Number: 061035
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	610,406.8060	
Easting (M)	375,746.7660	
Elevation (M)*	79.477	
Northing (SFT)	2,002,642.9960	
Easting (SFT)	1,232,762.5148	
Elevation (SFT)*	260.751	

Convergence Angle	0	8	52.5189499
Scale Factor	0.999960986		
Elevation Adjust. Factor	0.9999875276		
Combined Adjust. Factor	0.9999485141		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE GRANT-SALINE COUNTY LINE, LOCATED ABOUT 22.53 KM (14.0 MI) NORTH OF SHERIDAN ON U.S. HIGHWAY 167, GO NORTH ON U.S. HIGHWAY 167 FOR 11.426 KM (7.10 MI) TO THE JUNCTION OF U.S. HIGHWAY 167 AND I 530, TURN RIGHT (SOUTH) AND GO 0.322 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.00 METERS NORTH EAST OF THE CENTER OF I 530 SOUTH BOUND LANES AND 0.50 METERS SOUTH WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "620016 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 839.690 METERS.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					620016A
MK # 2						146 53 49
MK # 3						147 02 42

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SALIPOINT	
Ref Mon # 2 PAGIS 1001	
Ref Mon # 3 270009	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620016A	Date Monumented 12/6/2001	Monumented By AHTD	County SALINE	Route I 530	Job Number: 061035
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 609,702.2579		Latitude 34 33 25.4267784
Easting (M) 376,203.5200		Longitude 92 15 33.4638756
Elevation (M)* 74.387		Ellipsoid Height (M): 48.046
Northing (SFT) 2,000,331.4911		Geoid Height (M): -26.248
Easting (SFT) 1,234,261.0485		
Elevation (SFT)* 244.051		

Convergence Angle	0	8	42.4510377
Scale Factor	0.999959972		
Elevation Adjust. Factor	0.9999883264		
Combined Adjust. Factor	0.9999482989		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	END OF GUARD RAIL	152	18.25	59.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SALIPOINT	
Ref Mon # 2 PAGIS 1001	
Ref Mon # 3 270009	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620017	Date Monumented	Monumented By	County SALINE	Route I 30	Job Number: 60209
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Zone Arkansas South	Zone Code 302	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 608,157.0477		Geoid Datum:
Easting (M) 340,947.7100		Latitude 34 32 30.2353116
Elevation (M)*		Longitude 92 38 36.0361104
Northing (SFT) 1,995,261.9140		Ellipsoid Height (M): 91.409
Easting (SFT) 1,118,592.6119		Geoid Height (M): -26.327
Elevation (SFT)*		

Convergence Angle 0 21 36.2638414	
Scale Factor 0.999957570	
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks			
Description	Azimuth	Distance	
		Meters	Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620017A	Date Monumented 	Monumented By AHTD	County Saline	Route I 30	Job Number: 061256
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	607,879.5009	
Easting (M)	340,389.3290	
Elevation (M)*	120.824	

Northing (SFT)	1,994,351.3292	
Easting (SFT)	1,116,760.6569	
Elevation (SFT)*	396.402	

Convergence Angle	0	21	48.4819538
Scale Factor	0.999957180		
Elevation Adjust. Factor	0.9999810392		
Combined Adjust. Factor	0.9999382200		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	34	32	21.1248096
Longitude	92	38	57.8567508
Ellipsoid Height:	94.476		
Grid Northing (Meters)	607,879.8427		
Grid Easting (Meters)	340,389.5728		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND STATE HIGHWAY 67 SOUTH, GO WEST ON I-30 TO THE STATION ON THE LEFT LOCATED 9.0 METERS SOUTH OF THE THE CENTERLINE OF THE SOUTH SERVICE ROAD, 17.0 METERS WEST OF A GRAVEL DRIVE INTO BIBLE MISSIONARY BAPTIST CHURCH, AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION IS A STANDARD 64 MM CAP STAMPED 620017A-2002 SET ON TOP OF A 1.22 METER STEEL ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	240	11.20	36.7
MK # 2	WEST END OF SIGN	155	7.35	24.1
MK # 3	GAS METER	243	8.00	26.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Saliport, Saliport Az.	Digital Levels were ran by crew S5101 in March 2010 from NGS mark Saliport AZ in job 061256.
Ref Mon # 2 ARHP, ARCM	
Ref Mon # 3 CSAL	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620017A-1	Date Monumented	Monumented By	County SALINE	Route I 30	Job Number: 60209
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<table style="width: 100%;"> <tr> <td style="width: 50%;">Zone Arkansas South</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Horizontal Datum</td> <td></td> </tr> <tr> <td>Northing (M)</td> <td>#Error</td> </tr> <tr> <td>Easting (M)</td> <td>#Error</td> </tr> <tr> <td>Elevation (M)*</td> <td></td> </tr> <tr> <td>Northing (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Easting (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Elevation (SFT)*</td> <td></td> </tr> </table> <table style="width: 100%;"> <tr> <td>Convergence Angle</td> <td>###/###</td> <td>#Error</td> </tr> <tr> <td>Scale Factor</td> <td></td> <td>#Error</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td></td> <td></td> </tr> <tr> <td>Combined Adjust. Factor</td> <td></td> <td>#Type!</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;">SUPERCEDED CONTROL</div> <table style="width: 100%;"> <tr> <td>Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone Arkansas South	Zone Code	Horizontal Datum		Northing (M)	#Error	Easting (M)	#Error	Elevation (M)*		Northing (SFT)	#Type!	Easting (SFT)	#Type!	Elevation (SFT)*		Convergence Angle	###/###	#Error	Scale Factor		#Error	Elevation Adjust. Factor			Combined Adjust. Factor		#Type!	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table style="width: 100%;"> <tr> <td>Vertical Determined By:</td> <td>NONE</td> </tr> <tr> <td>Elevation Datum:</td> <td>NONE</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px; min-height: 200px;"> <p style="text-align: center; margin-top: 0;">Location Description</p> </div>	Vertical Determined By:	NONE	Elevation Datum:	NONE	Geoid Datum:		Latitude		Longitude		Ellipsoid Height (M):		Geoid Height (M):	
Zone Arkansas South	Zone Code																																																						
Horizontal Datum																																																							
Northing (M)	#Error																																																						
Easting (M)	#Error																																																						
Elevation (M)*																																																							
Northing (SFT)	#Type!																																																						
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Elevation (SFT)*																																																							
Convergence Angle	###/###	#Error																																																					
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Vertical Determined By:	NONE																																																						
Elevation Datum:	NONE																																																						
Geoid Datum:																																																							
Latitude																																																							
Longitude																																																							
Ellipsoid Height (M):																																																							
Geoid Height (M):																																																							

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

<p style="text-align: center; margin-top: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> <p style="text-align: center; margin-top: 0;">Comments</p> </div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620019A	Date Monumented 7/27/2002	Monumented By AHTD	County SALINE	Route 5	Job Number: 061228,60209,061082,061335
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	615,964.1176	0.0010	
Easting (M)	351,788.2570	0.0020	
Elevation (M)*	114.345		

Northing (SFT)	2,020,875.6092		
Easting (SFT)	1,154,158.6398		
Elevation (SFT)*	375.145		

Convergence Angle	0	17	39.1863672
Scale Factor	0.999969284		
Elevation Adjust. Factor	0.9999820559		
Combined Adjust. Factor	0.9999513405		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	36	45.6177096
Longitude	92	31	32.4388344
Ellipsoid Height:			
Grid Northing (Meters)	615,964.5140		
Grid Easting (Meters)	351,788.5310		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK TOP OF STEEL GUARDRAIL POST	272	4.75	15.6
MK # 2	PUNCH MARK TOP OF STEEL GUARDRAIL POST	345	1.10	3.6
MK # 3	PUNCH MARK TOP OF STEEL GUARDRAIL POST	65	4.85	15.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR, ARHP Ref Mon # 2 SALIPORT Ref Mon # 3 ARCM, ARHR	3-Wire Levels ran By Garver and verified by ESS in May 2009. Mark was established from elevations on Job 061202, which job 061202 was established by First Order level Loop around Little Rock. *****Position updated by crew S5113 during job 061508 in 11/2016 using static GPS.

Vertical Determined By: 3rd Order - 3 Wire Level	
Elevation Datum: NAVD 88	
Geoid Datum: Geoid 12B	
Latitude	34 36 45.6048000
Longitude	92 31 32.4495120
Ellipsoid Height (M):	87.889 0.0090
Geoid Height (M):	-26.440

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 5 AND STATE HIGHWAY 183 IN THE CITY OF BRYANT ,GO WEST ON HIGHWAY 5 1.70 MILES TO THE STATION ON THE LEFT LOCATED AT THE SOUTHEAST END OF THE HURRICANE CREEK BRIDGE, 5.9 METERS SOUTH OF THE CENTERLINE OF HIGHWAY 5, 5.25 METERS EAST OF BRIDGE ABUTMENT, AND 0.20 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64MM CAP STAMPED 620019A-2002 SET ON TOP OF A 1.22 METER STEEL ROD DRIVEN FLUSH WITH THE GROUND.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620020	Date Monumented	Monumented By	County SALINE	Route I 30	Job Number: 60209,061335,061474
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	617,654.1650	
Easting (M)	356,402.8126	
Elevation (M)*	117.809	
Northing (SFT)	2,026,420.3730	
Easting (SFT)	1,169,298.2277	
Elevation (SFT)*	386.510	

Convergence Angle	0	15	57.9810113
Scale Factor	0.999972037		
Elevation Adjust. Factor	0.9999815123		
Combined Adjust. Factor	0.9999535499		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
FROM JCT OF I-30 & SR-183 (X-123) IN BRYANT GET ON E-BOUND SERVICE RD & GO 1.5 MI TO STA ON RT ON TOP OF BANK IN SE COR OF OVERPASS. 29' SE OF OVERPASS C/L. STA IS A 2 1/2" ALUM CAP STAMPED "620020 2002"			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	SE END OF PARAPET WALL	15	18.50	60.7	620020A
MK # 2	END OF GUARD RAIL	162	59.00	193.6	
MK # 3	DROP INLET	97	11.00	36.1	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Elevation updated by crew S5102 in 01/2016. Three wire ran through NGS Benchmarks P338 - Q338. Previous elevation of 386.5560

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620020A	Date Monumented	Monumented By	County SALINE	Route I 30	Job Number: 60209,061335,061474
---------------------------	------------------------	----------------------	-------------------------	----------------------	---

Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	617,392.2853
Easting (M)	355,565.3299
Elevation (M)*	123.764
Northing (SFT)	2,025,561.1894
Easting (SFT)	1,166,550.5865
Elevation (SFT)*	406.050

Convergence Angle	0	16	16.3558914
Scale Factor	0.999971605		
Elevation Adjust. Factor	0.9999805777		
Combined Adjust. Factor	0.9999521833		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	LIGHT POLE	355	81.00	265.7	620020
MK # 2	CHURCH SIGN	265	28.00	91.9	
MK # 3	WATER METER	110	7.00	23.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Elevation updated by crew S5102 in 01/2016. Three wire ran through NGS Benchmarks P338 - Q338. Previous elevation of 406.0300

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620021	Date Monumented 1/15/2003	Monumented By AHTD	County SALINE	Route 5	Job Number: 061082,061428
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	615,553.1013	
Easting (M)	342,284.9436	
Elevation (M)*	94.272	
Northing (SFT)	2,019,527.1332	
Easting (SFT)	1,122,979.8525	
Elevation (SFT)*	309.290	

Convergence Angle	0	21	7.9087772
Scale Factor	0.999968550		
Elevation Adjust. Factor	0.9999852059		
Combined Adjust. Factor	0.9999537564		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	36	30.5265960
Longitude	92	37	45.3740520
Ellipsoid Height:	67.757		
Grid Northing (Meters)	615,553.1012		
Grid Easting (Meters)	342,284.9445		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	84	18.30	60.0
MK # 2	UNDER GROUND CABLE MARKER	267	16.90	55.4
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 Russport, 480016 Ref Mon # 2 AHTD MON 1 Ref Mon # 3 AHTD HOPE 1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.</td> </tr> </table>	Comments	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
Comments			
ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.			

Location Description	
TO REACH THE STATION FROM U.S STATE HIGHWAY 5 AND HIGHWAY 298, NORTH WEST OF BENTON, GO SOUTH ON HIGHWAY 5 0.05 MILES TO THE STATION ON THE RIGHT. NORTH 8.20 METERS OF THE CENTER OF THE HIGHWAY, WEST 22.30 METERS OF A GRAVEL DRIVE, AND SOUTH 0.30 OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "620021 2003" ON TOP OF 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.	

AZ Mark Station	620021A	
Geodetic Azimuth	251 21 49	
Grid Azimuth	251 42 57	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620021A	Date Monumented 1/15/2003	Monumented By AHTD	County SALINE	Route 5	Job Number: 061082,061428
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	615,393.4117				
Easting (M)	341,801.6859				
Elevation (M)*	102.646				
Northing (SFT)	2,019,003.2182				
Easting (SFT)	1,121,394.3645				
Elevation (SFT)*	336.764				

Convergence Angle	0	21	18.5031732
Scale Factor	0.999968294		
Elevation Adjust. Factor	0.9999838918		
Combined Adjust. Factor	0.9999521863		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	36	25.2474840
Longitude	92	38	4.3030680
Ellipsoid Height:	76.132		
Grid Northing (Meters)	615,393.4113		
Grid Easting (Meters)	341,801.6868		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	312	20.40	66.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620022	Date Monumented 11/5/2004	Monumented By AHTD	County SALINE	Route 35	Job Number: 061155
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 609,889.1239		Latitude 34 33 27.4745628
Easting (M) 346,224.6370		Longitude 92 35 9.4681392
Elevation (M)* 104.022		Ellipsoid Height (M): 77.765
Northing (SFT) 2,000,944.5673		Geoid Height (M): -26.284
Easting (SFT) 1,135,905.3299		
Elevation (SFT)* 341.280		

Convergence Angle	0	19	40.6496717
Scale Factor	0.999960062		
Elevation Adjust. Factor	0.9999836758		
Combined Adjust. Factor	0.9999437384		

SUPERCEDED CONTROL												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)	
Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
Grid Northing (Meters)												
Grid Easting (Meters)												

Location Reference Marks				
	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY WIRE	182	6.95	22.8
MK # 2	LIGHT POLE	291	2.30	7.5
MK # 3	ANCHOR OF GUY WIRE	219	8.10	26.6

Area Reference Monuments (used for Processing)	Comments						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>SALIPOINT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>LROC C.O.R.S.</td> </tr> <tr> <td>Ref Mon # 3</td> <td>K 124</td> </tr> </table>	Ref Mon # 1	SALIPOINT	Ref Mon # 2	LROC C.O.R.S.	Ref Mon # 3	K 124	<p>*****NOTE*****MONUM</p> <p>ENT REPORTED DAMAGED BY CRAFTON TULL ON 10/31/2018 BY MARK A. MEADOR, RPLS 3-wire</p> <p>elevations ran from NGS Benton North Meridian to U79 in Job 061155 by Consultant Benham on 03/20/2005.</p>
Ref Mon # 1	SALIPOINT						
Ref Mon # 2	LROC C.O.R.S.						
Ref Mon # 3	K 124						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620022A	Date Monumented 11/5/2004	Monumented By AHTD	County SALINE	Route 35	Job Number: 061155
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 609,863.0919		Latitude 34 33 26.7176916
Easting (M) 346,700.1690		Longitude 92 34 50.8088604
Elevation (M)* 101.996		Ellipsoid Height (M): 75.745
		Geoid Height (M): -26.275

Northing (SFT) 2,000,859.1607		
Easting (SFT) 1,137,465.4711		
Elevation (SFT)* 334.631		

Convergence Angle 0 19 30.2062471		
Scale Factor 0.999960029		
Elevation Adjust. Factor 0.9999839938		
Combined Adjust. Factor 0.9999440235		

SUPERCEDED CONTROL												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)	
Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
Grid Northing (Meters)												
Grid Easting (Meters)												

Location Reference Marks			
	Description	Azimuth	Distance
			Meters Feet
MK # 1	FIRE HYDRANT	265	3.20 10.5
MK # 2	POWER POLE	340	16.40 53.8
MK # 3			

AZ Mark Station 620022	
Geodetic Azimuth 272 48 30	
Grid Azimuth 273 08 00	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SALIPOINT	3-wire elevations ran from NGS Benton North Meridian to U79 in Job 061155 by Consultant Benham on 03/20/2005.
Ref Mon # 2 LROC C.O.R.S.	
Ref Mon # 3 K 124	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620023	Date Monumented 5/8/2007	Monumented By AHTD	County SALINE	Route 183	Job Number: 061206
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	609,945.9009	
Easting (M)	353,237.8300	
Elevation (M)*		
Northing (SFT)	2,001,130.8432	
Easting (SFT)	1,158,914.4473	
Elevation (SFT)*		

Convergence Angle	0	17	6.6824483
Scale Factor	0.999960198		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER BAUXITE POST OFFI	154	23.47	77.0
MK # 2	FIRE HYDRANDT	255	38.62	126.7
MK # 3	FLAG POLE	139	14.87	48.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARCM Ref Mon # 3 DQUA	

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 34 33 30.5349768

Longitude 92 30 34.3747224

Ellipsoid Height (M): 85.508

Geoid Height (M): -26.227

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 183 AND STATE HIGHWAY 35, EAST OF BENTON, GO NORTH ON 183 FOR 3.6 MILES TO THE STATION MARK ON THE RIGHT, IN FRONT OF THE BAUXITE POST OFFICE, WEST 99.2 FEET OF THE CENTERLINE OF A COUNTY ROAD, EAST OF THE CENTERLINE OF A CONCRETE DRIVE, SOUTH 29.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620023 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620023A	Date Monumented 5/8/2007	Monumented By AHTD	County SALINE	Route 183	Job Number: 061206
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	609,940.8099	
Easting (M)	352,704.5010	
Elevation (M)*		
Northing (SFT)	2,001,114.1405	
Easting (SFT)	1,157,164.6837	
Elevation (SFT)*		

Convergence Angle	0	17	18.3911430
Scale Factor	0.999960186		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CABLE MARKER	293	16.70	54.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARCM Ref Mon # 3 DQUA	

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 34 33 30.2831172

Longitude 92 30 55.2946608

Ellipsoid Height (M): 77.616

Geoid Height (M): -26.228

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 183 AND STATE HIGHWAY 35, EAST OF BENTON, GO NORTH ON 183 FOR 3.3 MILES TO THE STATION MARK ON THE LEFT IN THE CENTER OF A GRAVEL DRIVE, NORTH 29.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTHWEST 62.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620023A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620024	Date Monumented 5/8/2007	Monumented By AHTD	County SALINE	Route 183	Job Number: 061206
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	610,603.7079	
Easting (M)	354,574.4750	
Elevation (M)*		
Northing (SFT)	2,003,288.9983	
Easting (SFT)	1,163,299.7567	
Elevation (SFT)*		

Convergence Angle	0	16	37.4061640
Scale Factor	0.999961158		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 183 AND STATE HIGHWAY 35, EAST OF BENTON, GO NORTH ON 183 FOR 4.8 MILES TO THE SALINE COUNTY CAREER CENTER (3201 SOUTH REYNOLDS ROAD) ON THE RIGHT, TURN RIGHT AND FOLLOW DRIVE (BEARING TO THE RIGHT) 0.1 MILES TO THE STATION MARK ON THE RIGHT, NORTHEAST 200.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTHEAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620024 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	POWER POLE	348	36.58	120.0		620024
MK # 2						350 24 22
MK # 3						350 41 00

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	
Ref Mon # 2 ARCM	
Ref Mon # 3 DQUA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620024A	Date Monumented 5/8/2007	Monumented By AHTD	County SALINE	Route 183	Job Number: 061206
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	610,951.8639	
Easting (M)	354,517.3580	
Elevation (M)*		
Northing (SFT)	2,004,431.2401	
Easting (SFT)	1,163,112.3654	
Elevation (SFT)*		

Convergence Angle	0	16	38.6972730
Scale Factor	0.999961665		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	235	24.32	79.8
MK # 2	POWER POLE	20	16.37	53.7
MK # 3	28 INCH PINE TREE	68	30.48	100.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARCM Ref Mon # 3 DQUA	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 34 3.3853836
Longitude	92 29 44.3735772
Ellipsoid Height (M):	89.534
Geoid Height (M):	-26.241

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 183 AND STATE HIGHWAY 35, EAST OF BENTON, GO NORTH ON 183 FOR 4.9 MILES TO THE STATION MARK ON THE RIGHT, EAST 32.8 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 9.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620024A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	620024A
Geodetic Azimuth	170 24 21
Grid Azimuth	170 41 00

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620025	Date Monumented 7/23/2008	Monumented By AHTD	County Saline	Route 167	Job Number: 020318,001847
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	606,028.4389	
Easting (M)	368,749.3350	
Elevation (M)*		
Northing (SFT)	1,988,278.3033	
Easting (SFT)	1,209,805.1099	
Elevation (SFT)*		

Convergence Angle	0	11	25.8382019
Scale Factor	0.999954844		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Fire hydrant	45	6.34	20.8	
MK # 2	Southwest end of a culvert	74	8.02	26.3	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM ARLR DQUA Ref Mon # 2 620016 270015 Ref Mon # 3	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px; vertical-align: top;"> This station is a replacement for 620015A which was destroyed. </td> </tr> </table>	Comments	This station is a replacement for 620015A which was destroyed.
Comments			
This station is a replacement for 620015A which was destroyed.			

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 31 25.4899092
Longitude	92 20 25.3879116
Ellipsoid Height (M):	56.419
Geoid Height (M):	-26.179

Location Description
To reach the station from the junction of highways 167 and 367 just south of East End go south on hwy-167 for 0.20 miles to the station on the right. 45.0 feet west of the west edge of the asphalt, 37.0 feet south southwest of the center of a paved drive and 41.0 mfeet north of a witness post. The station mark is a 2 1/2 inch cap stamped "620025 2008" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620026	Date Monumented 7/28/2008	Monumented By AHTD	County Saline	Route NA	Job Number: 020318,061035
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	608,811.0029	
Easting (M)	372,348.2780	
Elevation (M)*	86.965	
Northing (SFT)	1,997,407.4320	
Easting (SFT)	1,221,612.6421	
Elevation (SFT)*	285.318	

Convergence Angle	0	10	7.0347246
Scale Factor	0.999958689		
Elevation Adjust. Factor	0.9999863525		
Combined Adjust. Factor	0.9999450421		

SUPERCEDDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	259	11.89	39.0
MK # 2	Water valve	263	17.68	58.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM ARLR DQUA Ref Mon # 2 620016 270015 Ref Mon # 3	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 32 56.1599700
Longitude	92 18 4.5896472
Ellipsoid Height (M):	60.736
Geoid Height (M):	-26.229

Location Description
<p>To reach the station from the junction of highways 167 and 367 just south of East End go north on hwy-167 for 2.60 miles to Woodson lateral road. Turn left (west) on Woodson lateral road and go 0.05 miles to the station on the right in front of Cornerstone Fellowship Church. 48.70 feet north of the center of Woodson road, 38.0 feet west of the center of a paved drive and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "620026 2008" set on top of a 4 foot long by 5/8 inch rebar and is 0.20 feet below the surface.</p>

AZ Mark Station	620026A
Geodetic Azimuth	62 17 29
Grid Azimuth	62 27 36

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620026A	Date Monumented 7/28/2008	Monumented By AHTD	County Saline	Route 167	Job Number: 020318,061035
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	609,037.5769	
Easting (M)	372,782.7850	
Elevation (M)*	83.670	
Northing (SFT)	1,998,150.7835	
Easting (SFT)	1,223,038.1871	
Elevation (SFT)*	274.507	

Convergence Angle	0	9	57.5105114
Scale Factor	0.999959011		
Elevation Adjust. Factor	0.9999868696		
Combined Adjust. Factor	0.9999458812		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach the station from the junction of highways 167 and 367 just south of East End go north on hwy-167 for 2.80 miles to the station on the right 34.80 feet southeast of the center of hwy-167 and 1.50 feet northwest of a witness post. The station mark is a 2 1/2 inch cap stamped "620026A 2008" set on top of a 4 foot long by 5/8 inch rebar and is 0.20 feet below the surface.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM ARLR DQUA</p> <p>Ref Mon # 2 620016 270015</p> <p>Ref Mon # 3 </p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620027	Date Monumented 10/27/2008	Monumented By AHTD	County SALINE	Route 5	Job Number: 061228,061335, 061508
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	616,809.0903 0.0020
Easting (M)	353,560.9080 0.0020
Elevation (M)*	128.002

Northing (SFT)	2,023,647.8238
Easting (SFT)	1,159,974.4123
Elevation (SFT)*	419.954

Convergence Angle	0 17	0.3346411
Scale Factor	0.999970647	
Elevation Adjust. Factor	0.9999799127	
Combined Adjust. Factor	0.9999505603	

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34 37	13.3163436	
Longitude	92 30	23.0332068	
Ellipsoid Height:	101.694		
Grid Northing (Meters)	616,809.0949		
Grid Easting (Meters)	353,560.9050		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	254	17.22	56.5
MK # 2	GATE POST	117	2.89	9.5
MK # 3	CORNER OF SIDE WALK AT BACK OF CURB	25	2.44	8.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHP Ref Mon # 2 ARLR Ref Mon # 3 ARPB	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> 3-Wire Levels ran By Garver and verified by ESS in May 2009. Mark was established from elevations on Job 061202, which job 061202 was established by First Order level Loop around Little Rock. *****Position updated by crew S5113 during job 061508 in 11/2016 using static GPS. </td> </tr> </table>	Comments	3-Wire Levels ran By Garver and verified by ESS in May 2009. Mark was established from elevations on Job 061202, which job 061202 was established by First Order level Loop around Little Rock. *****Position updated by crew S5113 during job 061508 in 11/2016 using static GPS.
Comments			
3-Wire Levels ran By Garver and verified by ESS in May 2009. Mark was established from elevations on Job 061202, which job 061202 was established by First Order level Loop around Little Rock. *****Position updated by crew S5113 during job 061508 in 11/2016 using static GPS.			

Location Description TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 183 AND STATE HIGHWAY 5, NORTH OF BRYANT, GO SOUTH ON HIGHWAY 5 FOR 0.45 MILES TO THE STATION MARK ON THE LEFT, 22.5 FEET SOUTHWEST OF THE CENTERLINE OF A PAVED DRIVEWAY, 4 .60 FEET OF THE CENTERLINE OF THE HGIHWAY AND NORTH 1.50 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620027 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620027A	Date Monumented 10/27/2008	Monumented By AHTD	County SALINE	Route 5	Job Number: 061228,061335, 061508
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	617,078.4329 0.0020
Easting (M)	353,872.0426 0.0020
Elevation (M)*	137.956

Northing (SFT)	2,024,531.4919
Easting (SFT)	1,160,995.1931
Elevation (SFT)*	452.611

Convergence Angle	0	16	53.5277502
Scale Factor	0.999971084		
Elevation Adjust. Factor	0.9999783506		
Combined Adjust. Factor	0.9999494353		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	37	22.1065248
Longitude	92	30	10.8711108
Ellipsoid Height:	111.637		
Grid Northing (Meters)	617,078.4249		
Grid Easting (Meters)	353,872.0450		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	LIGHT POLE		242	9.30	30.5
MK # 2	GUY WIRE ANCHOR		261	10.76	35.3
MK # 3	CORNER OF RETAINING WALL		359	12.80	42.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR, ARCM Ref Mon # 2 SALIPORT Ref Mon # 3 ARHP, ARHR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> 3-Wire Levels ran By Garver and verified by ESS in May 2009. Mark was established from elevations on Job 061202, which job 061202 was established by First Order level Loop around Little Rock. *****Position updated by crew S5113 during job 061508 in 11/2016 using static GPS. </td> </tr> </table>	Comments	3-Wire Levels ran By Garver and verified by ESS in May 2009. Mark was established from elevations on Job 061202, which job 061202 was established by First Order level Loop around Little Rock. *****Position updated by crew S5113 during job 061508 in 11/2016 using static GPS.
Comments			
3-Wire Levels ran By Garver and verified by ESS in May 2009. Mark was established from elevations on Job 061202, which job 061202 was established by First Order level Loop around Little Rock. *****Position updated by crew S5113 during job 061508 in 11/2016 using static GPS.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 183 AND STATE HIGHWAY 5, NORTH OF BRYANT, GO SOUTH ON HIGHWAY 5 FOR 0.20 MILES TO THE STATION MARK ON THE RIGHT, 53.0 FEET SOUTHWEST OF THE CENTERLINE OF A PAVED DRIVEWAY AND EAST 39.7 FEET OF A WITNESS POST AND 21.6 FOOT NORTHWEST OF THE CENTERLINE OF THE HIGHWAY . THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620027A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620028	Date Monumented	Monumented By AHTD	County Saline	Route I 30	Job Number: 061256
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	607,001.4972	
Easting (M)	337,748.7424	
Elevation (M)*	116.332	
Northing (SFT)	1,991,470.7454	
Easting (SFT)	1,108,097.3324	
Elevation (SFT)*	381.667	

Convergence Angle	0	22	46.3147365
Scale Factor	0.999955951		
Elevation Adjust. Factor	0.9999817440		
Combined Adjust. Factor	0.9999376958		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Underground cable marker	306	52.43	172.0
MK # 2	Corner of concrete island	103	21.64	71.0
MK # 3	113 mile marker post	213	46.02	151.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Saliport, Saliport Az.	Digital Levels were ran by crew S5101 in March 2010 from NGS mark Saliport AZ in job 061256.
Ref Mon # 2 ARCM ARHP	
Ref Mon # 3 CSAL	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620029	Date Monumented	Monumented By AHTD	County Saline	Route I 30	Job Number: 061256,061330
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	607,001.4972	
Easting (M)	337,748.7424	
Elevation (M)*	135.391	
Northing (SFT)	1,991,470.7454	
Easting (SFT)	1,108,097.3324	
Elevation (SFT)*	444.196	

Convergence Angle	0	22	46.3147365
Scale Factor	0.999955951		
Elevation Adjust. Factor	0.9999787532		
Combined Adjust. Factor	0.9999347051		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	31	52.0640508
Longitude	92	40	41.1961044
Ellipsoid Height:	109.056		
Grid Northing (Meters)	607,001.4939		
Grid Easting (Meters)	337,748.7430		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center of a drop inlet in the median	11	62.48	205.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR, AB8283 Ref Mon # 2 ARHP Ref Mon # 3 ARCM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> Previous Elevation (135.423 m) from Digital Levels ran by crew S5101 in March 2010 from NGS mark Saliport AZ in job 061256. *****Updated Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330. *****FOUND </td> </tr> </table>	Comments	Previous Elevation (135.423 m) from Digital Levels ran by crew S5101 in March 2010 from NGS mark Saliport AZ in job 061256. *****Updated Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330. *****FOUND
Comments			
Previous Elevation (135.423 m) from Digital Levels ran by crew S5101 in March 2010 from NGS mark Saliport AZ in job 061256. *****Updated Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330. *****FOUND			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 09
Latitude	34 31 52.0641552
Longitude	92 40 41.1961260
Ellipsoid Height (M):	108.959
Geoid Height (M):	-26.435

Location Description
<p>To reach the station from the junction of I-30, US highway 70 southwest of Benton go west on I-30 for 0.20 miles to the station on the left in the median at the end of the I-30 on ramp. 38.0 feet north of the edge of the pavement of a lane crossover, 36.0 feet west of the center of the east bound lane, 29.70 feet east of the center of the west bound lane and 1.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "620029 2010" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.</p>

AZ Mark Station	620004A
Geodetic Azimuth	207 10 28
Grid Azimuth	207 33 14

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620030	Date Monumented 9/19/2011	Monumented By AHTD	County Saline	Route arrows ro	Job Number: 061341
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	614,676.1864	
Easting (M)	331,559.5803	
Elevation (M)*	116.787	0.0152
Northing (SFT)	2,016,650.1215	
Easting (SFT)	1,087,791.7230	
Elevation (SFT)*	383.159	

Convergence Angle	0	25	3.3799980
Scale Factor	0.999967066		
Elevation Adjust. Factor	0.9999816727		
Combined Adjust. Factor	0.9999487393		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>Starting at the intersection of highway 5 , 9, and narrows road go south on narrows road for 1.8 miles to the station on the right. The station is a standard alum. cap stamped(620030 2011) and is set on a 4 foot 5/8" rebar. It is 50' south west of the CL of narrows road, 115' north west of a driveway, and 28' southwest of a witness post. Lat.34.3600 Lon.092.4446</p>				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	center of a metal gate	35	27.74	91.0	AZ Mark Station
MK # 2	power pole with a transformer	173	22.55	74.0	Geodetic Azimuth
MK # 3					Grid Azimuth

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620030A	Date Monumented 9/19/2011	Monumented By AHTD	County Saline	Route arrows ro	Job Number: 061341
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	614,443.1442	
Easting (M)	331,824.2639	
Elevation (M)*	112.059	0.0152
Northing (SFT)	2,015,885.5489	
Easting (SFT)	1,088,660.1058	
Elevation (SFT)*	367.647	

Convergence Angle	0	24	57.5289289
Scale Factor	0.999966709		
Elevation Adjust. Factor	0.9999824146		
Combined Adjust. Factor	0.9999491242		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>Starting at the intersection of highway 5, 9, and narrows road go south on narrows road for 2 miles to the station on the left. The station is a standard alum. cap stamped (620030A 2011) and is set on a 4 foot 5/8" rebar. It is 15' north east of the CL of narrows road, 3' north east of a guard rail, and 3' north east of a witness post. Lat.34.3552 Lon.092.4436</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	North East corner of bridge	164	10.50	34.4
MK # 2	North end of guardrail	340	12.80	42.0
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620031	Date Monumented 8/8/2011	Monumented By AHTD	County SALINE	Route 88	Job Number: 061330
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	609,126.3872	
Easting (M)	327,464.2643	
Elevation (M)*	132.109	
Northing (SFT)	1,998,442.1553	
Easting (SFT)	1,074,355.6738	
Elevation (SFT)*	433.427	

Convergence Angle	0	26	32.3941624
Scale Factor	0.999958797		
Elevation Adjust. Factor	0.9999792683		
Combined Adjust. Factor	0.9999380661		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	69	19.08	62.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	AB8283
Ref Mon # 2	ARCM
Ref Mon # 3	ARHP

Comments
Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620031A	Date Monumented 8/8/2011	Monumented By AHTD	County SALINE	Route 70	Job Number: 061330
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	609,200.8656	
Easting (M)	327,996.6226	
Elevation (M)*	135.490	
Northing (SFT)	1,998,686.5066	
Easting (SFT)	1,076,102.2526	
Elevation (SFT)*	444.519	

Convergence Angle	0	26	20.7201640
Scale Factor	0.999958908		
Elevation Adjust. Factor	0.9999787377		
Combined Adjust. Factor	0.9999376466		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARLR, AB8283</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARHP</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARLR, AB8283	Ref Mon # 2	ARCM	Ref Mon # 3	ARHP	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.</td> </tr> </table>	Comments	Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARLR, AB8283										
Ref Mon # 2	ARCM										
Ref Mon # 3	ARHP										
Comments											
Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.											

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 88, EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 0.2 MILES TO THE MARK ON THE LEFT, 19.2 FEET NORTH OF THE NORTH EDGE OF THE PAVEMENT OF THE WEST BOUND LANE, 27.8 FEET WEST OF THE CENTERLINE OF A GRAVEL DRIVE AND SOUTH 1.6 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620031A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

AZ Mark Station	620031
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620032	Date Monumented 8/8/2011	Monumented By AHTD	County SALINE	Route 70	Job Number: 061330
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	607,803.5851	
Easting (M)	332,137.8891	
Elevation (M)*	103.760	
Northing (SFT)	1,994,102.2621	
Easting (SFT)	1,089,689.0578	
Elevation (SFT)*	340.418	

Convergence Angle	0	24	49.5869496
Scale Factor	0.999956998		
Elevation Adjust. Factor	0.9999837170		
Combined Adjust. Factor	0.9999407157		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	280	9.66	31.7	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AB8283	Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.
Ref Mon # 2 ARCM	
Ref Mon # 3 ARHP	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620032A	Date Monumented 8/8/2011	Monumented By AHTD	County SALINE	Route 70	Job Number: 061330
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	607,662.7508	
Easting (M)	332,832.7695	
Elevation (M)*	103.154	
Northing (SFT)	1,993,640.2082	
Easting (SFT)	1,091,968.8446	
Elevation (SFT)*	338.432	

Convergence Angle	0	24	34.3126131
Scale Factor	0.999956811		
Elevation Adjust. Factor	0.9999838120		
Combined Adjust. Factor	0.9999406237		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR, AB8283 Ref Mon # 2 ARCM Ref Mon # 3 ARHP	Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620033	Date Monumented 9/19/2011	Monumented By AHTD	County Saline	Route 5	Job Number: 061341,061428
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	616,671.1594	
Easting (M)	333,903.2209	
Elevation (M)*	158.960	
Northing (SFT)	2,023,195.2955	
Easting (SFT)	1,095,480.8172	
Elevation (SFT)*	521.523	

Convergence Angle	0	24	12.2092360
Scale Factor	0.999970237		
Elevation Adjust. Factor	0.9999750546		
Combined Adjust. Factor	0.9999452923		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude	34	37	5.0166840
Longitude	92	43	14.6639640
Ellipsoid Height:			
Grid Northing (Meters)	616,671.1669		
Grid Easting (Meters)	333,903.2201		

Location Description				
Starting at the intersection of highway 5 and 9 go northon 5 for 3.2 miles to the station on the left. The station is a standard alum. cap stamped(620033 2011) and is set on a 4 foot 5/8" rebar. It is 42' north of the center line of highway5 and is 2' south of a witness post. Lat.34.3705 Lon.092.4315				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	east end of concrete ditch	97	17.98	59.0	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620033A	Date Monumented 9/19/2011	Monumented By AHTD	County Saline	Route 5	Job Number: 061341,061428
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	616,484.2200	
Easting (M)	333,254.2630	
Elevation (M)*	122.146	
Northing (SFT)	2,022,581.9785	
Easting (SFT)	1,093,351.6945	
Elevation (SFT)*	400.741	

Convergence Angle	0	24	26.4377819
Scale Factor	0.999969931		
Elevation Adjust. Factor	0.9999808316		
Combined Adjust. Factor	0.9999507632		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude	34	36	58.8012120
Longitude	92	43	40.0862280
Ellipsoid Height:			
Grid Northing (Meters)	616,484.2302		
Grid Easting (Meters)	333,254.2595		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone box	213	2.35	7.7
MK # 2	Telephone box	98	4.88	16.0
MK # 3	South West corner of a metal fence	338	22.86	75.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.</td> </tr> </table>	Comments	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
Comments			
ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620034	Date Monumented 5/15/2013	Monumented By AHTD	County SALINE	Route I 30	Job Number: BB0602,CA0601
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	607,001.4849	0.0040
Easting (M)	337,748.7570	0.0030
Elevation (M)*	135.278	
Northing (SFT)	1,991,470.7050	
Easting (SFT)	1,108,097.3803	
Elevation (SFT)*	443.825	

Convergence Angle	0	22	46.3144161
Scale Factor	0.999955951		
Elevation Adjust. Factor	0.9999787709		
Combined Adjust. Factor	0.9999347229		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center of a drop inlet in the median	11	62.48	205.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	Elevation by S5112 in May 2013 for Job #BB0602 using Digital Level. Job Elevations based on AHTD GPS Marker 620004A from Job #061330. **Note: Elevation from Digital levels used as constraint in final Static GPS Network Adjustment.
Ref Mon # 2 ARHP	
Ref Mon # 3 620004A	

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	None
Elevation Datum:	
Geoid Datum:	Geoid 96
Latitude	34 31 52.0637592
Longitude	92 40 41.1955536
Ellipsoid Height (M):	108.925 0.0027
Geoid Height (M):	-26.353 0.0000

Location Description
<p>To reach the station from the junction of I-30 and US highway 70, southwest of Benton, go west on I-30 for 0.20 miles to the station on the left in the median at the end of the I-30 on ramp. 38.0 feet north of the edge of the pavement of a lane crossover, 36.0 feet west of the center of the east bound lane, 29.70 feet east of the center of the west bound lane and 1.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "620034 2013" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.</p>

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620035	Date Monumented 5/15/2013	Monumented By AHTD	County SALINE	Route I 30	Job Number: BB0602
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	604,576.8304	0.0030			
Easting (M)	335,914.9036	0.0030			
Elevation (M)*	126.653				
Northing (SFT)	1,983,515.8177				
Easting (SFT)	1,102,080.8129				
Elevation (SFT)*	415.526				

Convergence Angle	0	23	26.2005103
Scale Factor	0.999952706		
Elevation Adjust. Factor	0.9999801245		
Combined Adjust. Factor	0.9999328314		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	Elevation by S5112 in May 2013 for Job #BB0602 using Digital Level. Job Elevations based on AHTD GPS Marker 620004A from Job #061330. **Note: Elevation from Digital levels used as constraint in final Static GPS Network Adjustment.
Ref Mon # 2 ARHP	
Ref Mon # 3 620004A	

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	None
Elevation Datum:	
Geoid Datum:	Geoid 96
Latitude	34 30 32.9761764
Longitude	92 41 52.4600844
Ellipsoid Height (M):	100.313 0.0064
Geoid Height (M):	-26.339 0.0000

Location Description
<p>To reach the station from the junction of I-30, US highway 70 southwest of Benton go west on I-30 for 2.1 miles to the station on the right, 21.0 feet north of the edge of the concrete for the west bound lane and south 16.4 feet of a witness post. The mark is a standard 2 1/2" cap stamped "620035 2013" on top of a 4 foot rebar driven below the surface of the ground.</p>

AZ Mark Station	620035A
Geodetic Azimuth	
Grid Azimuth	

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620035A	Date Monumented 5/15/2013	Monumented By AHTD	County SALINE	Route I 30	Job Number: BB0602
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	604,190.2325	0.0040			
Easting (M)	335,628.4549	0.0040			
Elevation (M)*	138.586				
Northing (SFT)	1,982,247.4545				
Easting (SFT)	1,101,141.0225				
Elevation (SFT)*	454.677				

Convergence Angle	0	23	32.4276862
Scale Factor	0.999952202		
Elevation Adjust. Factor	0.9999782518		
Combined Adjust. Factor	0.9999304549		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	end of concrete culvert	332	64.62	212.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	Elevation by S5112 in May 2013 for Job #BB0602 using Digital Level. Job Elevations based on AHTD GPS Marker 620004A from Job #061330. **Note: Elevation from Digital levels used as constraint in final Static GPS Network Adjustment.
Ref Mon # 2 ARHP	
Ref Mon # 3 620004A	

Vertical Determined By:	None
Elevation Datum:	
Geoid Datum:	Geoid 96
Latitude	34 30 20.3663124
Longitude	92 42 3.5861868
Ellipsoid Height (M):	112.248 0.0068
Geoid Height (M):	-26.338 0.0000

Location Description
To reach the station from the junction of I-30 and US highway 70, southwest of Benton, go west on I-30 for 2.4 miles to the station on the right, 10.4 feet north of the edge of the concrete for the west bound lane and west 82.3 feet of the centerline of a overpass. The mark is a standard 2 1/2" cap stamped "620035A 2013" on top of a 2 foot rebar driven below the surface of the ground.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620036	Date Monumented 5/15/2013	Monumented By AHTD	County SALINE	Route I 30	Job Number: BB0602
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	601,977.6892	0.0030	
Easting (M)	333,854.0809	0.0030	
Elevation (M)*	123.476		
Northing (SFT)	1,974,988.4687		
Easting (SFT)	1,095,319.5971		
Elevation (SFT)*	405.103		

Convergence Angle	0	24	11.0178719
Scale Factor	0.999949389		
Elevation Adjust. Factor	0.9999806230		
Combined Adjust. Factor	0.9999300130		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	Elevation by S5112 in May 2013 for Job #BB0602 using Digital Level. Job Elevations based on AHTD GPS Marker 620004A from Job #061330. **Note: Elevation from Digital levels used as constraint in final Static GPS Network Adjustment.
Ref Mon # 2 ARHP	
Ref Mon # 3 620004A	

Vertical Determined By: None	
Elevation Datum:	
Geoid Datum:	Geoid 96
Latitude	34 29 8.1622428
Longitude	92 43 12.5353164
Ellipsoid Height (M):	97.145 0.0088
Geoid Height (M):	-26.331 0.0000

Location Description
To reach the station from the junction of I-30 and US highway 70, southwest of Benton, go west on I-30 for 4.1 miles to the station on the left in the median and 11 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "620036 2013" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620036A	Date Monumented 5/15/2013	Monumented By AHTD	County SALINE	Route I 30	Job Number: BB0602
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	601,679.2675 0.0030
Easting (M)	333,445.3693 0.0030
Elevation (M)*	137.530

Northing (SFT)	1,974,009.3968		
Easting (SFT)	1,093,978.6824		
Elevation (SFT)*	451.213		

Convergence Angle	0	24	19.9369885
Scale Factor	0.999949018		
Elevation Adjust. Factor	0.9999784175		
Combined Adjust. Factor	0.9999274366		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

To reach the station from the junction of I-30 and US highway 70, southwest of Benton, go west on I-30 for 4.5 miles to the station on the right at the northeast corner of the bridge over I 30 and 5.4 feet east of a witness post. The station mark is a standard 2 1/2 inch cap stamped "620036A 2013" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Northeast corner of bridge	195	3.05	10.0
MK # 2				
MK # 3				

AZ Mark Station	620036
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	Elevation by S5112 in May 2013 for Job #BB0602 using Digital Level. Job Elevations based on AHTD GPS Marker 620004A from Job #061330. **Note: Elevation from Digital levels used as constraint in final Static GPS Network Adjustment.
Ref Mon # 2 ARHP	
Ref Mon # 3 620004A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620037	Date Monumented 2/10/2014	Monumented By AHTD	County SALINE	Route 5	Job Number: 061428
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	615,993.9341
Easting (M)	337,659.3619
Elevation (M)*	111.728
Northing (SFT)	2,020,973.4321
Easting (SFT)	1,107,804.0898
Elevation (SFT)*	366.560

Convergence Angle	0 22 49.5869403
Scale Factor	0.999969199
Elevation Adjust. Factor	0.9999824666
Combined Adjust. Factor	0.9999516661

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
TO REACH FROM THE JCT. OF HWY 5 AND HWY 298. GO WEST ON HWY 5 FOR 3.0 MILES TO THE STATION ON THE RIGHT. THE STATION IS 3.0 FT. SOUTH OF A WITNESS POST, 5.9 FT N OF GUARDRAIL, AND 23.3 FT N OF THE CENTERLINE OF HWY 5. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 620037 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NE BRIDGE CORNER	264	17.70	58.1
MK # 2	POWER POLE	212	25.90	85.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620037A	Date Monumented 2/10/2014	Monumented By AHTD	County SALINE	Route 5	Job Number: 061428
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	616,027.9542
Easting (M)	337,323.4489
Elevation (M)*	113.770
Northing (SFT)	2,021,085.0464
Easting (SFT)	1,106,702.0153
Elevation (SFT)*	373.259

Convergence Angle	0 22 56.9715214
Scale Factor	0.999969250
Elevation Adjust. Factor	0.9999821462
Combined Adjust. Factor	0.9999513967

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
TO REACH FROM THE JCT. OF HWY 5 AND HWY 298. GO WEST ON HWY 5 FOR 3.2 MILES TO THE STATION ON THE LEFT. THE STATION IS 7.0 FT. NORTH OF A WITNESS POST, AND 27.89 FT SOUTH OF THE CENTERLINE OF HWY 5. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 620037A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	304	14.00	45.9
MK # 2	WOODEN GATE POST	271	8.80	28.9
MK # 3	18" CMP	181	1.30	4.3

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.</td> </tr> </table>	Comments	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
Comments			
ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620038	Date Monumented 2/10/2014	Monumented By AHTD	County SALINE	Route 9	Job Number: 061428
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	617,119.6628	
Easting (M)	329,675.9207	
Elevation (M)*	149.221	
Northing (SFT)	2,024,666.7604	
Easting (SFT)	1,081,611.7498	
Elevation (SFT)*	489.570	

Convergence Angle	0	25	45.1574984
Scale Factor	0.999970908		
Elevation Adjust. Factor	0.9999765829		
Combined Adjust. Factor	0.9999474915		

SUPERCEDED CONTROL																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Horizontal Datum</td> <td colspan="3"></td> </tr> <tr> <td>Latitude</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td colspan="3"></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td colspan="3"></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td colspan="3"></td> </tr> </table>	Horizontal Datum				Latitude				Longitude				Ellipsoid Height:				Grid Northing (Meters)				Grid Easting (Meters)			
Horizontal Datum																								
Latitude																								
Longitude																								
Ellipsoid Height:																								
Grid Northing (Meters)																								
Grid Easting (Meters)																								

Location Description
<p>TO REACH FROM THE JCT. OF HWY 5 AND HWY 9 IN CROWS. GO NORTH ON HWY 9 FOR 0.5 MILES TO THE STATION ON THE RIGHT. THE STATION IS 3.0 FT WEST OF A WITNESS POST, AND 33.46 FT EAST OF THE CENTERLINE OF HWY 9. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 6200338 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE	185	23.60	77.4	AZ Mark Station 620038A
MK # 2	6" PINE TREE	4	9.70	31.8	Geodetic Azimuth
MK # 3	WOODEN FENCE POST	92	1.30	4.3	Grid Azimuth

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center; padding: 5px;">Comments</th> </tr> <tr> <td style="padding: 5px;"> <p>ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.</p> </td> </tr> </table>	Comments	<p>ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.</p>
Comments			
<p>ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.</p>			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620038A	Date Monumented 2/10/2014	Monumented By AHTD	County SALINE	Route 9	Job Number: 061428
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	616,686.7755	
Easting (M)	329,468.1255	
Elevation (M)*	132.814	
Northing (SFT)	2,023,246.5293	
Easting (SFT)	1,080,930.0084	
Elevation (SFT)*	435.739	

Convergence Angle	0	25	49.6515354
Scale Factor	0.999970210		
Elevation Adjust. Factor	0.9999791577		
Combined Adjust. Factor	0.9999493683		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description
<p>TO REACH FROM THE JCT. OF HWY 5 AND HWY 9 IN CROWS. GO NORTH ON HWY 9 FOR 0.2 MILES TO THE STATION ON THE LEFT. THE STATION IS 5.0 FT EAST OF A WITNESS POST, AND 33.79 FT WEST OF THE CENTERLINE OF HWY 9. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 6200338A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WOODEN FENCE POST	210	8.60	28.2	620038
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <p>ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620039	Date Monumented 2/10/2014	Monumented By AHTD	County SALINE	Route 5	Job Number: 061428
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	616,359.9272	
Easting (M)	325,574.1026	
Elevation (M)*	160.073	
Northing (SFT)	2,022,174.1945	
Easting (SFT)	1,068,154.3683	
Elevation (SFT)*	525.173	

Convergence Angle	0	27	15.1464588
Scale Factor	0.999969641		
Elevation Adjust. Factor	0.9999748799		
Combined Adjust. Factor	0.9999445217		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	WATER METER		38	3.90	12.8
MK # 2	12" PLASTIC PIPE		141	5.90	19.4
MK # 3	COMBINATION POLE		286	18.00	59.1

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.</td> </tr> </table>	Comments	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
Comments			
ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620039A	Date Monumented 2/10/2014	Monumented By AHTD	County SALINE	Route 5	Job Number: 061428
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	616,172.5525
Easting (M)	325,923.5778
Elevation (M)*	163.919
Northing (SFT)	2,021,559.4493
Easting (SFT)	1,069,300.9382
Elevation (SFT)*	537.792

Convergence Angle	0	27	7.4362841
Scale Factor	0.999969347		
Elevation Adjust. Factor	0.9999742763		
Combined Adjust. Factor	0.9999436241		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
Ref Mon # 2	
Ref Mon # 3	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID96
Latitude	34 36 46.9024776
Longitude	92 48 27.7422984
Ellipsoid Height (M):	137.090
Geoid Height (M):	-26.807

Location Description
<p>TO REACH FROM THE JCT. OF HWY 5 AND HWY 9 IN CROWS. GO WEST ON HWY 5 FOR 2.4 MILES TO THE STATION ON THE RIGHT. THE STATION IS 17.0 FT SOUTH OF A WITNESS POST, AND 28.22 FT NORTH OF THE CENTERLINE OF HWY 5. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 620039A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620040	Date Monumented 2/10/2014	Monumented By AHTD	County SALINE	Route 5	Job Number: 061428
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	617,140.1191	
Easting (M)	321,587.9250	
Elevation (M)*	160.544	
Northing (SFT)	2,024,733.8741	
Easting (SFT)	1,055,076.3839	
Elevation (SFT)*	526.719	

Convergence Angle	0	28	42.8624902
Scale Factor	0.999970838		
Elevation Adjust. Factor	0.9999748060		
Combined Adjust. Factor	0.9999456448		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	72	3.20	10.5
MK # 2	COMBINATION POLE	99	29.40	96.5
MK # 3	CENTER 4 FT BOULDER	149	3.00	9.8

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.</td> </tr> </table>	Comments	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
Comments			
ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620040A	Date Monumented 2/10/2014	Monumented By AHTD	County SALINE	Route 5	Job Number: 061428
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	617,165.7001	
Easting (M)	321,139.8117	
Elevation (M)*	153.604	
Northing (SFT)	2,024,817.8011	
Easting (SFT)	1,053,606.1989	
Elevation (SFT)*	503.949	

Convergence Angle	0	28	52.7126496
Scale Factor	0.999970873		
Elevation Adjust. Factor	0.9999758951		
Combined Adjust. Factor	0.9999467688		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	24" CMP	342	5.20	17.1
MK # 2	30" HACKBERRY	146	27.00	88.6
MK # 3	WOODEN FENCE CORNER	289	14.00	45.9

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.</td> </tr> </table>	Comments	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.
Comments			
ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.			

Location Description
<p>TO REACH FROM THE JCT. OF HWY 5 AND HWY 9 IN CROWS. GO WEST ON HWY 5 FOR 5.5 MILES TO THE STATION ON THE LEFT. THE STATION IS 1.0 FT NORTH OF A WITNESS POST, 24.61 FT EAST OF THE CENTER OF REGGIE RD, AND 48.56 FT SOUTH OF THE CENTERLINE OF HWY 5. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 620040A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

AZ Mark Station	620040
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620041	Date Monumented 2/10/2014	Monumented By AHTD	County SALINE	Route 5	Job Number: 061428
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	612,406.8832
Easting (M)	345,750.4607
Elevation (M)*	140.943
Northing (SFT)	2,009,204.9160
Easting (SFT)	1,134,349.6365
Elevation (SFT)*	462.410

Convergence Angle	0 19 51.3793653
Scale Factor	0.999963749
Elevation Adjust. Factor	0.9999778820
Combined Adjust. Factor	0.9999416318

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By: 3rd Order - Digital Levels	Elevation Datum: NAVD 88
Geoid Datum: GEOID96	Latitude 34 34 49.0944360
Longitude 92 35 28.6388952	Ellipsoid Height (M): 114.575
Geoid Height (M): -26.340	

Location Description
<p>TO REACH FROM THE INTERSECTION OF HWY 5 AND HWY 35. GO NORTH ON HWY 5 FOR 0.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS 30.0 FT EAST OF A WITNESS POST, 26.0 FT NORTH OF THE CENTER OF FIRST ASSEMBLY OF GOD DRIVEWAY, AND 68.90 FT EAST OF THE CENTERLINE OF HWY 5. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 620041 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH FLAG POLE	341	35.70	117.1
MK # 2	COMBINATION POLE 3 GY	320	33.40	109.6
MK # 3	LIGHT POLE	102	29.00	95.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620041A	Date Monumented 2/10/2014	Monumented By AHTD	County SALINE	Route 5	Job Number: 061428
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	611,970.6726	
Easting (M)	345,834.6621	
Elevation (M)*	130.581	
Northing (SFT)	2,007,773.7817	
Easting (SFT)	1,134,625.8872	
Elevation (SFT)*	428.414	

Convergence Angle	0	19	49.4750074
Scale Factor	0.999963099		
Elevation Adjust. Factor	0.9999795081		
Combined Adjust. Factor	0.9999426078		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH FROM THE INTERSECTION OF HWY 5 AND HWY 35. GO EAST ON HWY 5 FOR 100.0 FT TO THE STATION ON THE LEFT. THE STATION IS 1.0 FT SOUTH OF A WITNESS POST, AND 51.18 FT NORTH OF THE CENTERLINE OF HWY 5. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 620041A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	COMBINATION POLE 2 GY	119	18.70	61.4	
MK # 2	FLARED END SECTION	310	3.20	10.5	
MK # 3	TRAFFIC SIGNAL POLE	299	28.00	91.9	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620042	Date Monumented 6/24/2014	Monumented By AHTD	County SALINE	Route NVILLE	Job Number: BR6208
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	622,925.6011	0.0050	
Easting (M)	315,341.9277	0.0040	
Elevation (M)*	158.335	0.0080	
Northing (SFT)	2,043,715.0763		
Easting (SFT)	1,034,584.3078		
Elevation (SFT)*	519.472		

Convergence Angle	0	31	1.2387880
Scale Factor	0.999980474		
Elevation Adjust. Factor	0.9999751526		
Combined Adjust. Factor	0.9999556271		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	81	5.60	18.4
MK # 2	TELEPHONE BOX	289	54.00	177.2
MK # 3	SOUTH END 12" RCP	0	28.00	91.9

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARHP Ref Mon # 3 P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation based on 3rd Order Digital levels from NGS 2nd Order BM's H 104 and E 162 by S5112 in June 2014 for Job #BR6208.</td> </tr> </table>	Comments	Elevation based on 3rd Order Digital levels from NGS 2nd Order BM's H 104 and E 162 by S5112 in June 2014 for Job #BR6208.
Comments			
Elevation based on 3rd Order Digital levels from NGS 2nd Order BM's H 104 and E 162 by S5112 in June 2014 for Job #BR6208.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 5 N AND STATE HIGHWAY 7 N, NORTHEAST OF HOT SPRINGS, GO NORTH ON HIGHWAY 5 1.8 MILES TO DANVILLE ROAD AND TURN RIGHT (NORTH) AND GO 6.0 MILES TO THE MARK ON THE RIGHT, EAST 7.3 FEET OF A PRIVATE ASPHALT DRIVE AND WEST 5.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "620042 2014" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	620042A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620042A	Date Monumented 6/24/2014	Monumented By AHTD	County SALINE	Route NVILLE	Job Number: BR6208
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	623,535.2015 0.0060
Easting (M)	315,313.2300 0.0060
Elevation (M)*	153.134 0.0080
Northing (SFT)	2,045,715.0736
Easting (SFT)	1,034,490.1554
Elevation (SFT)*	502.408

Convergence Angle	0 31 1.9906651
Scale Factor	0.999981547
Elevation Adjust. Factor	0.9999759688
Combined Adjust. Factor	0.9999575163

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	TELEPHONE BOX	340	94.50 310.0
MK # 2	WOODEN BRACE POST	176	132.00 433.1
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHP Ref Mon # 3 P777	Elevation based on 3rd Order Digital levels from NGS 2nd Order BM's H 104 and E 162 by S5112 in June 2014 for Job #BR6208.

Vertical Determined By: 3rd Order - Digital Levels

Elevation Datum: NAVD 88

Geoid Datum: Geoid 12A

Latitude 34 40 42.9177828

Longitude 92 55 26.8208832

Ellipsoid Height (M): 125.722 0.0080

Geoid Height (M): -27.414

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 5 N AND STATE HIGHWAY 7 N, NORTHEAST OF HOT SPRINGS, GO NORTH ON HIGHWAY 5 1.8 MILES TO DANVILLE ROAD AND TURN RIGHT (NORTH) AND GO 6.35 MILES TO THE MARK ON THE RIGHT, EAST 14 FEET OF THE CENTERLINE OF DANVILLE ROAD AND WEST 3.4 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "620042A 2014" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620043	Date Monumented 6/22/2017	Monumented By AHTD	County Pulaski	Route 111	Job Number: 061390
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	618,964.4075	0.0020			
Easting (M)	359,221.9519	0.0020			
Elevation (M)*	108.305	0.0026			
Northing (SFT)	2,030,719.0603				
Easting (SFT)	1,178,547.3539				
Elevation (SFT)*	355.329				

Convergence Angle	0	14	56.1606615
Scale Factor	0.999974213		
Elevation Adjust. Factor	0.9999830038		
Combined Adjust. Factor	0.9999572172		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
To reach from the intersection of hwy 5 and N. Alexander (AR 111) in Saline County, go South 0.4 miles to station on the right. 8' West of curb, 17' South of S.W. corner of bridge, and 1.3' East of a witness post. Station is an AHTD GPS monument stamped "620043 2017" set on top of a 5/8 in. by 4 FT. Rebar driven 0.10 in. below the surface.				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	curb		2.44	8.0	620043A
MK # 2	S.W. corner of bridge		5.18	17.0	
MK # 3	witness post		0.40	1.3	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARLR	Set by crew S5113v in 06/2017 during job 061390. Elevation based on digital levels ran from NGS benchmark N 338.
Ref Mon # 2: ARRV	
Ref Mon # 3: ARPB	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620043A	Date Monumented 6/22/2017	Monumented By AHTD	County Pulaski	Route I-30	Job Number: 061390
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	618,510.0728	0.0020	
Easting (M)	358,000.2914	0.0020	
Elevation (M)*	112.888	0.0008	
Northing (SFT)	2,029,228.4638		
Easting (SFT)	1,174,539.2894		
Elevation (SFT)*	370.368		

Convergence Angle	0	15	22.9635095
Scale Factor	0.999973452		
Elevation Adjust. Factor	0.9999822844		
Combined Adjust. Factor	0.9999557369		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach from the intersection I-30 West service road and N. Alexander (AR 111) in Saline County, go West 0.85 miles to station on the right. 9' North of edge of pavement of service road, 5' S.E. of 15' combination power pole with fence' and 1.5' S.E. of witness post. Station is an AHTD GPS monument stamped "620043A 2017" set on top of a 5/8 in. by 4 FT. Rebar driven 0.10 in. below the surface.</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	edge of pavement of service road		2.74	9.0	620043
MK # 2	15' combination power pole		1.52	5.0	
MK # 3	witness post		0.46	1.5	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	Set by crew S5113v in 06/2017 during job 061390. Elevation based on digital levels ran from NGS benchmark P 338.
Ref Mon # 2 ARRV	
Ref Mon # 3 ARPB	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620044-1	Date Monumented 11/9/2016	Monumented By AHTD	County SALINE	Route I-30	Job Number: 061508
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	615,678.6148 0.0010
Easting (M)	352,456.8782 0.0010
Elevation (M)*	

Northing (SFT)	2,019,938.9221		
Easting (SFT)	1,156,352.2746		
Elevation (SFT)*			

Convergence Angle	0	17	24.4656066
Scale Factor	0.999968837		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION MARK FROM THE Intersection of Hwy 5 and Springhill Rd. in Saline County, drive South 0.2 miles, then West on flyover 0.25 mjiles to station on the right. 10.15' South West of SW corner of bridge, 10.84' West of gaurd rail, 0.73' South of witness post. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "620044 2016" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	North East corner of bridge		3.09	10.1
MK # 2	guard rail		2.56	8.4
MK # 3	witness post		0.22	0.7

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARLR</p> <p>Ref Mon # 2 ARHP</p> <p>Ref Mon # 3 ARPB</p>	<p style="text-align: center; margin: 0;">Comments</p> <p>elevations based on digital levels, checking into PN:902 from job 061335</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620048	Date Monumented 11/9/2016	Monumented By AHTD	County SALINE	Route Hwy 5	Job Number: 061508
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	614,467.1723	0.0010	
Easting (M)	349,190.4630	0.0010	
Elevation (M)*	147.619	0.0029	
Northing (SFT)	2,015,964.3811		
Easting (SFT)	1,145,635.7107		
Elevation (SFT)*	484.312		

Convergence Angle	0	18	36.0794874
Scale Factor	0.999966916		
Elevation Adjust. Factor	0.9999768344		
Combined Adjust. Factor	0.9999437511		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE Intersection of Hwy 5 and Military Rd. in Saline County, drive South West 0.07 miles to the station on the right. 8.4' West of back of curb, 33.5' North of North West corner of bridge, and 0.7' East of witness post. . THE STATION MARK IS A STANDARD 64mm CAP STAMPED "620048 2016" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	back of curb		2.56	8.4	620048A
MK # 2	NorthWest corner of bridge		10.21	33.5	
MK # 3	Witness Post		0.21	0.7	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHP Ref Mon # 3 ARPB	Elevations based on digital levels, checking into PN:902 from job 061335

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620048A	Date Monumented 11/9/2016	Monumented By AHTD	County SALINE	Route Hwy 5	Job Number: 061508
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	614,768.1656	0.0010			
Easting (M)	349,622.7763	0.0010			
Elevation (M)*	146.695	0.0026			
Northing (SFT)	2,016,951.8900				
Easting (SFT)	1,147,054.0586				
Elevation (SFT)*	481.281				

Convergence Angle	0	18	26.6189708
Scale Factor	0.999967387		
Elevation Adjust. Factor	0.9999769793		
Combined Adjust. Factor	0.9999443671		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole		5.73	18.8
MK # 2	Edge of Pavement		4.60	15.1
MK # 3	Witness Post		0.24	0.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHP Ref Mon # 3 ARPB	elevations based on digital levels, checking into PN:902 from job 061335

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12A
Latitude	34 36 6.4242360
Longitude	92 32 57.1974000
Ellipsoid Height (M):	120.236 0.0090
Geoid Height (M):	-26.435

Location Description
TO REACH THE STATION MARK FROM THE Intersection of Hwy 5 and Military Rd. in Saline County, drive North East 0.26 miles to the station on the right. 18.8' East of Power Pole, 15.1' mSouth of edge of pavement, 0.8' North of witness post. . THE STATION MARK IS A STANDARD 64mm CAP STAMPED "620048A 2016" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630001	Date Monumented 2/1/1994	Monumented By AHTD	County SCOTT	Route 71	Job Number: R40024
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 45,981.4959		Latitude 34 43 45.8144544
Easting (M) 208,134.2490		Longitude 94 5 41.8087392
Elevation (M)* 245.867		Ellipsoid Height (M): 215.079
		Geoid Height (M): -30.788

Northing (SFT) 150,857.6245		
Easting (SFT) 682,853.7819		
Elevation (SFT)* 806.649		

Convergence Angle -1 13 8.5719292		
Scale Factor 1.000046349		
Elevation Adjust. Factor 0.9999614169		
Combined Adjust. Factor 1.0000077642		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
FROM THE JCT. OF HWY. 71 AND HWY. 270 IN "Y" CITY SOUTH OF WALDRON, GO SOUTH ON HWY. 71 FOR 2.14 KM (1.33 MILES) TO THE STATION ON THE LEFT. THE STATION IS 11.80 METERS SOUTHEAST OF THE CENTERLINE OF HWY. 71 AND 0.67 METERS NORTH OF A WITNESS POST DRIVEN ADJACENT TO A BARBED WIRE FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "630001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN POWER POLE	96	26.87	88.2	AZ Mark Station 63001A
MK # 2	NBC IN POWER POLE	282	23.45	76.9	Geodetic Azimuth 96 44 48.038223
MK # 3	NONE				Grid Azimuth 97 57 56.503450

Area Reference Monuments (used for Processing) Ref Mon # 1 PINNACLE Ref Mon # 2 MENAPORT Ref Mon # 3 Q-299	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630001A	Date Monumented 2/1/1994	Monumented By AHTD	County SCOTT	Route 71	Job Number: R40024
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Vertical Determined By:</td> <td colspan="2">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>34</td> <td>43 44.1055272</td> </tr> <tr> <td>Longitude</td> <td>94</td> <td>5 24.3148812</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>219.393</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-30.775</td> <td></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	34	43 44.1055272	Longitude	94	5 24.3148812	Ellipsoid Height (M):	219.393		Geoid Height (M):	-30.775	
Vertical Determined By:	LEVEL - Unkown Quality																						
Elevation Datum:	NAVD 88																						
Geoid Datum:																							
Latitude	34		43 44.1055272																				
Longitude	94		5 24.3148812																				
Ellipsoid Height (M):	219.393																						
Geoid Height (M):	-30.775																						
Horizontal Datum	NAD 83 (1986)																						
Northing (M)	45,919.3859																						
Easting (M)	208,578.1130																						
Elevation (M)*	250.168																						
Northing (SFT)	150,653.8519																						
Easting (SFT)	684,310.0257																						
Elevation (SFT)*	820.760																						

Convergence Angle	-1	12	58.3922685
Scale Factor	1.000046472		
Elevation Adjust. Factor	0.9999607420		
Combined Adjust. Factor	1.0000072122		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 20" SYCAMORE	44	33.07	108.5
MK # 2	SOUTHWEST CORNER OF CHAIN LINK FEN	58	33.04	108.4
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>PINNACLE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MENAPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>Q-299</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	PINNACLE	Ref Mon # 2	MENAPORT	Ref Mon # 3	Q-299	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	PINNACLE										
Ref Mon # 2	MENAPORT										
Ref Mon # 3	Q-299										
Comments											

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630002	Date Monumented 2/1/1994	Monumented By AHTD	County SCOTT	Route 71	Job Number: R40024
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 50,821.3020		Latitude 34 46 25.1427720
Easting (M) 211,512.7220		Longitude 94 3 33.0256152
Elevation (M)* 202.911		Ellipsoid Height (M): 172.083
		Geoid Height (M): -30.828

Northing (SFT) 166,736.2216	Easting (SFT) 693,937.9888	Location Description
Elevation (SFT)* 665.717		<p>FROM THE JCT. OF HWY. 71 AND HWY. 270 IN "Y" CITY SOUTH OF WALDRON, GO NORTH ON HWY. 71 FOR 5.64 KM (3.50 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 15.641 METERS EAST OF THE CENTERLINE OF HWY. 71, 4.499 METERS WEST OF A WOODEN FENCE, 2.570 METERS EAST OF THE CENTER OF CONCRETE DITCH PAVING, 75.149 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF A BOX CULVERT AT LOG MILE 11.43 AND 1.150 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "630002" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>
Convergence Angle -1 11 53.6331416		
Scale Factor 1.000035230		
Elevation Adjust. Factor 0.9999681577		
Combined Adjust. Factor 1.0000033865		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station 63002A
MK # 2	NONE				Geodetic Azimuth 242 50 11.38358
MK # 3	NONE				Grid Azimuth 244 02 05.15926

Area Reference Monuments (used for Processing) Ref Mon # 1 PINNACLE Ref Mon # 2 MENAPORT Ref Mon # 3 Q-299	Comments
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630002A	Date Monumented 2/1/1994	Monumented By AHTD	County SCOTT	Route 71	Job Number: R40024
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 50,513.1509		Latitude 34 46 14.7154044
Easting (M) 210,879.9460		Longitude 94 3 57.6505440
Elevation (M)* 205.445		Ellipsoid Height (M): 174.610
		Geoid Height (M): -30.835

Northing (SFT) 165,725.2292		
Easting (SFT) 691,861.9562		
Elevation (SFT)* 674.031		

Convergence Angle -1 12 7.9623662		
Scale Factor 1.000035940		
Elevation Adjust. Factor 0.9999677600		
Combined Adjust. Factor 1.0000036989		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description					
<p>FROM THE JCT. OF HWY. 71 AND HWY. 270 IN "Y" CITY SOUTH OF WALDRON, GO NORTH ON HWY. 71 FOR 4.94 KM (3.07 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.812 METERS SOUTH OF THE CENTERLINE OF HWY. 71, 41.850 METERS EAST SOUTHEAST OF THE CENTER OF CO. RD. NO. 147, 4.343 METERS NORTH OF A WOODEN FENCE AND 0.70 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMUNUM CAP STAMPED "63002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NGS BENCHMARK A-300 1985		302	41.18	135.1
MK # 2	CENTER OF TELEPHONE JUNCTION BOX		295	37.36	122.6
MK # 3	CENTER OF TELEPHONE JUNCTION BOX		104	33.14	108.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 PINNACLE Ref Mon # 2 MENAPORT Ref Mon # 3 Q-299	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630003	Date Monumented 2/1/1994	Monumented By AHTD	County SCOTT	Route 71	Job Number: R40024
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 54,526.6969		Latitude 34 48 26.6015196
Easting (M) 213,356.1420		Longitude 94 2 23.5651632
Elevation (M)* 213.208		Ellipsoid Height (M): 182.340
		Geoid Height (M): -30.868

Northing (SFT) 178,893.0047		
Easting (SFT) 699,985.9425		
Elevation (SFT)* 699.500		

Convergence Angle -1 11 13.2141652		
Scale Factor 1.000027149		
Elevation Adjust. Factor 0.9999665418		
Combined Adjust. Factor 0.9999936899		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CENTER OF TELEPHONE JUNCTION BOX	210	14.41	47.3	AZ Mark Station 63003A
MK # 2	CENTER OF TELEPHONE JUNCTION BOX	350	21.46	70.4	Geodetic Azimuth 190 30 55.46284
MK # 3	NONE				Grid Azimuth 191 42 08.69738

Area Reference Monuments (used for Processing) Ref Mon # 1 PINNACLE Ref Mon # 2 MENAPORT Ref Mon # 3 Q-299	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630003A	Date Monumented 2/1/1994	Monumented By AHTD	County SCOTT	Route 71	Job Number: R40024
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	54,026.2260	
Easting (M)	213,252.4770	
Elevation (M)*	203.762	
Northing (SFT)	177,251.0431	
Easting (SFT)	699,645.8350	
Elevation (SFT)*	668.509	

Convergence Angle	-1	11	15.3494282
Scale Factor	1.000028214		
Elevation Adjust. Factor	0.9999680241		
Combined Adjust. Factor	0.9999962372		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	NBC IN COMBINATION POLE	14			37.02	121.4
MK # 2	NBC IN COMBINATION POLE	183			59.94	196.7
MK # 3	NONE					

Area Reference Monuments (used for Processing) Ref Mon # 1: PINNACLE Ref Mon # 2: MENAPORT Ref Mon # 3: Q-299	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 48 10.2950460
Longitude	94 2 27.2346360
Ellipsoid Height (M):	172.902
Geoid Height (M):	-30.860

Location Description
FROM THE JCT. OF HWY. 71 AND HWY. 28 IN THE COMMUNITY OF NEEDMORE JUST NORTH OF BOLES AND SOUTH OF WALDRON, GO SOUTH ON HWY. 71 FOR 0.67 KM (0.42 MILES) TO THE STATION ON THE LEFT. THE STATION IS 18.252 METERS EAST OF THE CENTERLINE OF HWY. 71, 22.516 METERS SOUTH OF A FIELD ENTRANCE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "63003A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	630003
Geodetic Azimuth	10 30 53.368362
Grid Azimuth	11 42 08.697383

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630004	Date Monumented 8/9/1999	Monumented By AHTD	County SCOTT	Route 28	Job Number: R40103
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	64,995.4530	
Easting (M)	176,731.1220	
Elevation (M)*		
Northing (SFT)	213,239.2487	
Easting (SFT)	579,825.3561	
Elevation (SFT)*		

Convergence Angle	-1	25	17.3743520
Scale Factor	1.000007924		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 0.52 KM (0.32 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.70 METERS NORTHWEST OF THE CENTER OF A GRAVEL ROAD, 10.50 METERS EAST OF THE CENTER OF A GRAVEL ROAD, 7.80 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 28 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "630004 1999" SET ON TOP OF AN IRON ROD 1.00 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 875.806 METERS.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF RCP	279	7.55	24.8
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 Q 299</p> <p>Ref Mon # 2 AHTD FS 2</p> <p>Ref Mon # 3 MENAPORT AZ MK</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630004A	Date Monumented 8/9/1999	Monumented By AHTD	County SCOTT	Route 28	Job Number: R40103
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	65,134.5280
Easting (M)	177,595.7990
Elevation (M)*	
Northing (SFT)	213,695.5306
Easting (SFT)	582,662.2172
Elevation (SFT)*	

Convergence Angle	-1	24	57.6426018
Scale Factor	1.000007623		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 1.38 KM (0.86 MI) TO THE STATION ON THE RIGHT JUST BEFORE A RAILROAD CROSSING. THE STATION IS 25.48 METERS SOUTH OF THE SOUTH RAIL, 22.12 METERS SOUTHWEST OF THE CENTER OF A GRAVEL DRIVEWAY, 10.86 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 28 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630004A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 875.806 METERS.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	51	25.97	85.2
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 Q 299</p> <p>Ref Mon # 2 AHTD FS 2</p> <p>Ref Mon # 3 MENAPORT AZ MK</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630005	Date Monumented 8/9/1999	Monumented By AHTD	County SCOTT	Route 28	Job Number: R40103
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	66,467.2290	
Easting (M)	184,467.7870	
Elevation (M)*		
Northing (SFT)	218,067.9005	
Easting (SFT)	605,208.0645	
Elevation (SFT)*		

Convergence Angle	-1	22	20.9251371
Scale Factor	1.000004840		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 8.58 KM (5.33 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.91 METERS NORTH OF THE CENTER OF STATE HIGHWAY 28, 7.63 METERS SOUTH OF THE SOUTH RAIL AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "630005 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 453.060 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	76	42.11	138.2
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 Q 299</p> <p>Ref Mon # 2 AHTD FS 2</p> <p>Ref Mon # 3 MENAPORT AZ MK</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630005A	Date Monumented 8/9/1999	Monumented By AHTD	County SCOTT	Route 28	Job Number: R40103
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	66,366.5041	
Easting (M)	184,026.0770	
Elevation (M)*		
Northing (SFT)	217,737.4389	
Easting (SFT)	603,758.8876	
Elevation (SFT)*		

Convergence Angle	-1	22	30.9917311
Scale Factor	1.000005045		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	Q 299
Ref Mon # 2	AHTD FS 2
Ref Mon # 3	MENAPORT AZ MK

Comments

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 34 54 29.4285924

Longitude 94 21 48.3333048

Ellipsoid Height (M): 150.407

Geoid Height (M): -31.040

Location Description

TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 8.13 KM (5.05 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.65 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 28 AND 0.86 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMED "630005A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 453.060 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630006	Date Monumented 8/9/1999	Monumented By AHTD	County SCOTT	Route 28	Job Number: R40103
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	67,072.8230	
Easting (M)	188,399.1350	
Elevation (M)*		
Northing (SFT)	220,054.7535	
Easting (SFT)	618,106.1621	
Elevation (SFT)*		

Convergence Angle	-1	20	51.1617233
Scale Factor	1.000003562		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	62	24.19	79.4
MK # 2	GUY POLE	237	17.52	57.5
MK # 3	WEST GATE POLE	82	15.43	50.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Q 299	ELEVATION = 663.941 FEET
Ref Mon # 2 AHTD FS 2	
Ref Mon # 3 MENAPORT AZ MK	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 54 55.7138016
Longitude	94 18 56.7743472
Ellipsoid Height (M):	171.496
Geoid Height (M):	-30.940

Location Description
<p>TO REACH THE STATION FROM THE ARKANSAS-OKLAMONA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 12.55 KM (7.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.43 METERS WEST OF THE CENTER OF A FIELD ENTRANCE, 10.10 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 28 AND 1.31 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "630006 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 446.166 METERS.</p>

AZ Mark Station	630006A
Geodetic Azimuth	61 41 30.432395
Grid Azimuth	63 02 21.520447

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630006A	Date Monumented 8/9/1999	Monumented By AHTD	County SCOTT	Route 28	Job Number: R40103
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	67,275.1051	
Easting (M)	188,796.8110	
Elevation (M)*		
Northing (SFT)	220,718.4073	
Easting (SFT)	619,410.8708	
Elevation (SFT)*		

Convergence Angle	-1	20	42.1568031
Scale Factor	1.000003178		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF A PLASTIC CULVERT	45	22.75	74.6
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Q 299	ELEVATION = 632.703 FEET
Ref Mon # 2 AHTD FS 2	
Ref Mon # 3 MENAPORT AZ MK	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 55 2.5792680
Longitude	94 18 41.2992936
Ellipsoid Height (M):	161.986
Geoid Height (M):	-30.934

Location Description
<p>TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 13.00 KM (8.08 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.75 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 28 AND 0.83 METERS NORTH OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "630006A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 446.166 METERS.</p>

AZ Mark Station	630006
Geodetic Azimuth	241 41 39.29002
Grid Azimuth	243 02 21.52045

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630007	Date Monumented 8/9/1999	Monumented By AHTD	County SCOTT	Route 28	Job Number: R40103, 040905
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	68,922.4310	
Easting (M)	196,095.2090	
Elevation (M)*	199.246	
Northing (SFT)	226,123.0090	
Easting (SFT)	643,355.6982	
Elevation (SFT)*	653.693	

Convergence Angle	-1	17	55.7441653
Scale Factor	0.999999923		
Elevation Adjust. Factor	0.9999687328		
Combined Adjust. Factor	0.9999686558		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	83	13.90	45.6
MK # 2	TELEPHONE JUNCTION BOX	254	3.25	10.7
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Elevations based on NGS point Q 299
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630007A	Date Monumented 8/9/1999	Monumented By AHTD	County SCOTT	Route 28	Job Number: R40103, 040905
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 69,010.9431		Latitude 34 56 4.7622300
Easting (M) 196,647.8610		Longitude 94 13 33.6251604
Elevation (M)* 199.669		Ellipsoid Height (M): 168.921
		Geoid Height (M): -30.764

Northing (SFT) 226,413.4025		
Easting (SFT) 645,168.8573		
Elevation (SFT)* 655.081		

Convergence Angle -1 17 43.1214933		
Scale Factor 0.999999744		
Elevation Adjust. Factor 0.9999686664		
Combined Adjust. Factor 0.9999684104		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
<p>TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 21.49 KM (13.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.05 METERS NORTH OF THE CENTER OF STATE HIGHWAY 28, 13.10 METERS SOUTH OF THE SOUTH RAIL, 6.08 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630007A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 559.710 METERS.</p>			

Location Reference Marks			
	Description	Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Q 299	Elevations based on NGS point Q 299
Ref Mon # 2 AHTD FS 2	
Ref Mon # 3 MENAPORT AZ MK	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630008	Date Monumented 8/9/1999	Monumented By AHTD	County SCOTT	Route 28	Job Number: R40103, 040905
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	68,928.2180	
Easting (M)	199,543.2840	
Elevation (M)*	193.157	
Northing (SFT)	226,141.9952	
Easting (SFT)	654,668.2576	
Elevation (SFT)*	633.716	

Convergence Angle	-1	16	36.7056584
Scale Factor	0.999999775		
Elevation Adjust. Factor	0.9999696883		
Combined Adjust. Factor	0.9999694633		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WESTERN MOST CONCRETE GUARD RAIL POST	54	9.75	32.0
MK # 2	PIPE CORNER POST	91	18.84	61.8
MK # 3	EAST GATE POST	260	6.40	21.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Elevations based on NGS point Q 299
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630008A	Date Monumented 8/9/1911	Monumented By AHTD	County SCOTT	Route 28	Job Number: R40103, 040905
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 69,000.3850		Latitude 34 56 6.8209080
Easting (M) 199,948.0140		Longitude 94 11 23.6079492
Elevation (M)* 201.991		Ellipsoid Height (M): 171.305
		Geoid Height (M): -30.706

Northing (SFT) 226,378.7631		
Easting (SFT) 655,996.1093		
Elevation (SFT)* 662.699		

Convergence Angle -1 16 27.4645914		
Scale Factor 0.999999632		
Elevation Adjust. Factor 0.9999683020		
Combined Adjust. Factor 0.9999679340		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 24.75 KM (15.38 MI) TO THE STATION ON THE RIGHT. THE STATION IS 23.30 METERS WEST OF THE CENTER OF A PAVE ROAD, 12.08 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 28 AND 1.22 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630008A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 411.131 METERS.

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	TETEPHONE JUNCTION BOX	248	35.12	115.2	
MK # 2	CHAIN LINK FENCE CORNER POST	246	17.79	58.4	
MK # 3	EAST GATE POST OF A CHAIN LINK POST	77	15.07	49.4	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Q 299	Elevations based on NGS point Q 299
Ref Mon # 2 AHTD FS 2	
Ref Mon # 3 MENAPORT AZ MK	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630009	Date Monumented 8/9/1999	Monumented By AHTD	County SCOTT	Route 71	Job Number: R40103
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	68,940.3901	
Easting (M)	207,977.9360	
Elevation (M)*	202.608	
Northing (SFT)	226,181.9299	
Easting (SFT)	682,340.9450	
Elevation (SFT)*	664.723	

Convergence Angle	-1	13	23.3552851
Scale Factor	0.999999429		
Elevation Adjust. Factor	0.9999682052		
Combined Adjust. Factor	0.9999676342		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	SOUTH GATE POST	5	18.22	59.8		630009A
MK # 2	TELEPHONE JUNCTION BOX	177	38.41	126.0		355 08 32.22123
MK # 3	NONE					356 21 55.58444

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Elevations based on NGS point Q 299
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630009A	Date Monumented 8/9/1999	Monumented By AHTD	County SCOTT	Route 71	Job Number: R40103
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	69,455.3680				
Easting (M)	207,945.2250				
Elevation (M)*	203.890				
Northing (SFT)	227,871.4865				
Easting (SFT)	682,233.6257				
Elevation (SFT)*	668.929				

Convergence Angle	-1	13	24.3572916
Scale Factor	0.999998525		
Elevation Adjust. Factor	0.9999680040		
Combined Adjust. Factor	0.9999665291		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL CORNER POST	350	15.00	49.2
MK # 2	COMBINATION POLE	325	20.29	66.6
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Q 299	Elevations based on NGS point Q 299
Ref Mon # 2 AHTD FS 2	
Ref Mon # 3 MENAPORT AZ MK	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630010	Date Monumented 9/10/1999	Monumented By AHTD	County SCOTT	Route 28	Job Number: R40103
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	69,078.6670	
Easting (M)	203,799.4920	
Elevation (M)*	195.091	
Northing (SFT)	226,635.5933	
Easting (SFT)	668,632.1667	
Elevation (SFT)*	640.061	

Convergence Angle	-1	14	59.2123908
Scale Factor	0.999999344		
Elevation Adjust. Factor	0.9999693848		
Combined Adjust. Factor	0.9999687288		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 28, LOCATED ON THE NORTH SIDE OF WALDRON, GO WEST ON STATE HIGHWAY 28 FOR 4.30 KM (2.67 MI) TO THE JUNCTION OF A GRAVEL DRIVEWAY ON THE LEFT, GO LEFT, SOUTH ON THE DRIVEWAY FOR 0.32 KM (0.20 MI) TO THE STATION ON THE RIGHT. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630010 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 335.918 METERS.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station
MK # 2	NONE				Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	<p>Elevations based on NGS point Q 299</p>
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630010A	Date Monumented 8/10/1999	Monumented By AHTD	County SCOTT	Route 28	Job Number: R40103
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	69,395.9360	
Easting (M)	203,689.1550	
Elevation (M)*	204.332	
Northing (SFT)	227,676.5000	
Easting (SFT)	668,270.1694	
Elevation (SFT)*	670.379	

Convergence Angle	-1	15	1.9005714
Scale Factor	0.999998790		
Elevation Adjust. Factor	0.9999679347		
Combined Adjust. Factor	0.9999667247		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF A PLASTIC CULVERT	208	4.03	13.2
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Q 299	Elevations based on NGS point Q 299
Ref Mon # 2 AHTD FS 2	
Ref Mon # 3 MENAPORT AZ MK	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 56 22.3281204
Longitude	94 8 56.5652472
Ellipsoid Height (M):	173.682
Geoid Height (M):	-30.634

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 28, LOCATED ON THE NORTH SIDE OF WALDRON, GO WEST ON STATE HIGHWAY 28 FOR 4.70 KM (2.92 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.72 METERS EAST OF THE CENTER OF STATE HIGHWAY 28, 5.86 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630010A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 335.918 METERS.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630011	Date Monumented 8/7/2000	Monumented By AHTD	County SCOTT	Route 248	Job Number: R40118
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	63,174.3117	
Easting (M)	202,896.1585	
Elevation (M)*		
Northing (SFT)	207,264.3876	
Easting (SFT)	665,668.4800	
Elevation (SFT)*		

Convergence Angle	-1	15	16.9561974
Scale Factor	1.000010214		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 248, LOCATED ON THE WEST SIDE OF WALDRON, GO WEST ON STATE HIGHWAY 248 FOR 4.65 KM (2.89 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.35 METERS SOUTH SOUTHWEST OF THE CENTER OF STATE HIGHWAY 248, 6.60 METERS NORTH NORTHEAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS NORTH NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630011 2000" SET ON TOP OF AN IRON ROD 0.80 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 319.611 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	292	17.65	57.9
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 Q 299</p> <p>Ref Mon # 2 MENAPORT AZ MK</p> <p>Ref Mon # 3 630007</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630011A	Date Monumented 8/7/2000	Monumented By AHTD	County SCOTT	Route 2481	Job Number: R40118
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	63,057.9177	
Easting (M)	203,193.8177	
Elevation (M)*		
Northing (SFT)	206,882.5183	
Easting (SFT)	666,645.0502	
Elevation (SFT)*		

Convergence Angle	-1	15	10.0787139
Scale Factor	1.000010424		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	Q 299
Ref Mon # 2	MENAPORT AZ MK
Ref Mon # 3	630007

Comments

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 248, LOCATED ON THE WEST SIDE OF WALDRON, GO WEST ON STATE HIGHWAY 248 FOR 4.33 KM (2.69 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.65 METERS NORTH OF THE CENTER OF STATE HIGHWAY 248 AND 0.82 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630011A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 319.611 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630012	Date Monumented 6/5/2019	Monumented By ARDOT	County SCOTT	Route 71	Job Number: 040787
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	627,367.9117 0.0020
Easting (M)	198,752.4972 0.0020
Elevation (M)*	349.092
Northing (SFT)	2,058,289.5570
Easting (SFT)	652,073.8179
Elevation (SFT)*	1,145.313

Convergence Angle	-1 13 46.0369463
Scale Factor	0.999985233
Elevation Adjust. Factor	0.9999452191
Combined Adjust. Factor	0.9999304529

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 270E, IN Y CITY, GO SOUTH ON HIGHWAY 71 7.95 MILES TO THE MARK ON THE RIGHT, NORTHWEST 46' OF THE C/L OF THE HIGHWAY AND SOUTHWEST 12' OF THE C/L OF FOREST ROAD M 38. THE MARK IS AS STANDARD 2 1/2" CAP STAMPED "2019 630012" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	BENCH MARK K 300	292		
MK # 2		19.66		
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARGS</p> <p>Ref Mon # 2 ARHP</p> <p>Ref Mon # 3 ARLR, ARRV</p>	<p style="text-align: center;">Comments</p> <p>ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM's J 300 & K 300 BY S5112 IN JUNE 2019 FOR JOB #040787.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630012A	Date Monumented 6/5/2019	Monumented By ARDOT	County SCOTT	Route 7	Job Number: 040787
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	627,758.7353 0.0020
Easting (M)	199,151.8726 0.0020
Elevation (M)*	339.380
Northing (SFT)	2,059,571.7841
Easting (SFT)	653,384.1020
Elevation (SFT)*	1,113.448

Convergence Angle	-1 13 37.4402236
Scale Factor	0.999985961
Elevation Adjust. Factor	0.9999467431
Combined Adjust. Factor	0.9999327049

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:		3rd Order - Digital Levels	
Elevation Datum:		NAVD 88	
Geoid Datum:		Geoid12B	
Latitude	34 42 2.5867188		
Longitude	94 11 32.6455764		
Ellipsoid Height (M):	308.877 0.0110		
Geoid Height (M):	-30.470 0.0110		

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 270E, IN Y CITY, GO SOUTH ON HIGHWAY 71 7.7 MILES TO THE MARK ON THE RIGHT, NORTHWEST 18.8' OF THE C/L OF THE HIGHWAY. THE MARK IS AS STANDARD 2 1/2" CAP STAMPED "2019 630012A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	C/L WEST HDWL	226	4.72	15.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS Ref Mon # 2 ARHP Ref Mon # 3 ARLR, ARRV	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM's J 300 & K 300 BY S5112 IN JUNE 2019 FOR JOB #040787.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630013	Date Monumented 4/20/2021	Monumented By ARDOT	County SCOTT	Route 378	Job Number: 040869
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	78,390.6761	0.0030			
Easting (M)	200,087.2996	0.0030			
Elevation (M)*					
Northing (SFT)	257,186.7432				
Easting (SFT)	656,453.0821				
Elevation (SFT)*					

Convergence Angle	-1	16	29.0616427
Scale Factor	0.999984116		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	298	1.06	3.5
MK # 2	SOUTHEAST CORNER METAL BLDGING	282	21.12	69.3
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	ORTHOMETRIC HTS. ON ARDOT CORS SITES ARDQ, ARFS, ARFY & ARRV CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT
Ref Mon # 2 ARFS	
Ref Mon # 3 ARFY, ARRV, OKMC	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 1 11.5628268
Longitude	94 11 26.3524992
Ellipsoid Height (M):	164.568 0.0110
Geoid Height (M):	-30.755 0.0110

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 378 AND STATE HIGHWAY 96, IN MANSFIELD, GO EAST ON HIGHWAY 378 5.8 MILES TO RUPE ROAD AND TURN LEFT AND GO 0.1 MILES TO THE MARK ON THE LEFT, NORTHWEST 13.3' OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 630013" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 630013A	Date Monumented 4/20/2021	Monumented By ARDOT	County SCOTT	Route 378	Job Number: 040869
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	78,782.8674 0.0030
Easting (M)	200,395.8399 0.0030
Elevation (M)*	
Northing (SFT)	258,473.4575
Easting (SFT)	657,465.3514
Elevation (SFT)*	

Convergence Angle	-1 16 22.1812956
Scale Factor	0.999983505
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 378 AND STATE HIGHWAY 96, IN MANSFIELD, GO EAST ON HIGHWAY 378 5.8 MILES TO RUPE ROAD AND TURN LEFT AND GO 0.4 MILES TO THE MARK ON THE LEFT, WEST 12.4' OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 630013A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					630013
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)		Comments ORTHOMETRIC HTS. ON ARDOT CORS SITES ARDQ, ARFS, ARFY & ARRV CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT
Ref Mon # 1	ARDQ	
Ref Mon # 2	ARFS	
Ref Mon # 3	ARFY, ARRV, OKMC	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640001	Date Monumented 5/15/1995	Monumented By AHTD	County SEARCY	Route 65	Job Number: 009829
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 177,801.3090		Latitude 35 56 1.9913244
Easting (M) 335,894.6370		Longitude 92 42 37.5649596
Elevation (M)* 202.022		Ellipsoid Height (M): 173.230
Northing (SFT) 583,336.4613		Geoid Height (M): -28.792
Easting (SFT) 1,102,014.3216		
Elevation (SFT)* 662.801		

Convergence Angle	0	24	48.2448199
Scale Factor	0.999954502		
Elevation Adjust. Factor	0.9999682972		
Combined Adjust. Factor	0.9999228006		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	2" STEEL GATE POST	5	9.00	29.5
MK # 2	2" STEEL GATE POST	72	2.40	7.9
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 VERONA 1953	THE ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING USING TBM-6 ON JOB NO. 009829.
Ref Mon # 2 EVANS AZ 1954	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640001A	Date Monumented 5/15/1995	Monumented By AHTD	County SEARCY	Route 65	Job Number: 009829
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	177,335.4319	
Easting (M)	335,749.6310	
Elevation (M)*	199.766	
Northing (SFT)	581,807.9962	
Easting (SFT)	1,101,538.5810	
Elevation (SFT)*	655.399	

Convergence Angle	0	24	51.5328947
Scale Factor	0.999954058		
Elevation Adjust. Factor	0.9999686512		
Combined Adjust. Factor	0.9999227106		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	300	1.30	4.3
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	VERONA 1953
Ref Mon # 2	EVANS AZ 1954
Ref Mon # 3	NONE

Comments
THE ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING USING TBM-5 ON JOB NO. 009829.

Location Description	
<p>FROM THE STOP LIGHT AT THE JCT. OF HWY. 65 AND HWY. 27 IN THE TOWN OF MARSHALL, GO NORTH ON HWY. 65 FOR 8.642 KM (5.37 MILES) TO THE JCT. WITH HWY. 74 WEST, CONTINUE NORTH ON HWY. 65 FOR 0.773 KM (0.48 MILES) TO THE STATION ON THE LEFT NEAR A POWER POLE IN A HAY FIELD. THE STATION IS 58.0 METERS WEST OF THE CENTER OF HWY. 65 AND 1.25 METERS EAST OF A WITNESS POST SET NEXT TO THE POWER POLE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "640001A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>	

AZ Mark Station	640001
Geodetic Azimuth	16 52 28.763275
Grid Azimuth	17 17 20.31006

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640002	Date Monumented 5/15/1995	Monumented By AHTD	County SEARCY	Route 65	Job Number: 009829
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 181,843.7159		Latitude 35 58 12.3747492
Easting (M) 332,673.1920		Longitude 92 44 47.3064504
Elevation (M)* 288.381		Ellipsoid Height (M): 259.552
Northing (SFT) 596,598.9246		Geoid Height (M): -28.829
Easting (SFT) 1,091,445.2974		
Elevation (SFT)* 946.130		

Convergence Angle 0 26 3.7412803	Location Description
Scale Factor 0.999958551	<p>FROM THE STOP LIGHT AT THE JCT. OF HWY. 65 AND HWY. 27 IN THE TOWN OF MARSHALL, GO NORTH ON HWY. 65 FOR 8.642 KM (5.37 MILES) TO THE JCT. WITH HWY. 74 WEST, CONTINUE NORTH ON HWY. 65 FOR 7.049 KM (4.38 MILES) TO THE STATION ON THE LEFT IN THE SMALL SETTLEMENT OF "SILVER HILL". THE STATION IS 16.4 METERS WEST OF THE CENTER OF HWY. 65 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "640002 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 0.9999547457	
Combined Adjust. Factor 0.9999132985	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	8" SASSAFRAS TREE	0	12.77	41.9	640002A
MK # 2	10" BLACK GUM TREE	190	25.20	82.7	171 40 22.0967
MK # 3	NONE				172 06 25.8444

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 VERONA 1953	<p>THE ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING USING TBM-22 ON JOB NO. 009829.</p>
Ref Mon # 2 EVANS AZ 1954	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640002A	Date Monumented 5/15/1995	Monumented By AHTD	County SEARCY	Route 65	Job Number: 009829
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (2011)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 181,442.9243		Latitude 35 57 59.3847000
Easting (M) 332,728.6652		Longitude 92 44 44.9711880
Elevation (M)* 285.650		Ellipsoid Height (M): 257.387
Northing (SFT) 595,283.9941		Geoid Height (M): -28.247
Easting (SFT) 1,091,627.2957		
Elevation (SFT)* 937.170		

Convergence Angle	0	26	2.3823931
Scale Factor	0.999958130		
Elevation Adjust. Factor	0.9999551742		
Combined Adjust. Factor	0.9999133061		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude	35	57	59.3847000
Longitude	92	44	44.9711880
Ellipsoid Height:			
Grid Northing (Meters)	181,442.9243		
Grid Easting (Meters)	332,728.6652		

Location Description

FROM THE STOP LIGHT AT THE JCT. OF HWY. 65 AND HWY. 27 IN THE TOWN OF MARSHALL, GO NORTH ON HWY. 65 FOR 8.642 KM (5.37 MILES) TO THE JCT. WITH HWY. 74 WEST, CONTINUE NORTH ON HWY. 65 FOR 6.647 KM (4.13 MILES) TO THE STATION ON THE LEFT IN FRONT OF THE "BUFFALO OUTDOOR CENTER" IN THE SMALL SETTLEMENT OF "SILVER HILL". THE STATION IS 23.2 METERS SOUTH OF A CONCRETE DRIVEWAY, 8.20 METERS SOUTHWEST OF THE CENTER OF HWY. 65 AND 1.13 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "640002A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST SIGN POST OF BUFFALO OUTDOOR SI	243	1.98	6.5
MK # 2	WOODEN FENCE CORNER	330	16.40	53.8
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 VERONA 1953 Ref Mon # 2 EVANS AZ 1954 Ref Mon # 3 NONE	THE ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING USING TBM-22 ON JOB NO. 009829.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640003	Date Monumented 6/26/1996	Monumented By AHTD	County SEARCY	Route 65	Job Number: R90098
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	183,472.7129	
Easting (M)	332,390.2270	
Elevation (M)*	187.955	
Northing (SFT)	601,943.3922	
Easting (SFT)	1,090,516.9364	
Elevation (SFT)*	616.649	

Convergence Angle	0	26	10.6013012
Scale Factor	0.999960304		
Elevation Adjust. Factor	0.9999705046		
Combined Adjust. Factor	0.9999308098		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SQUARE CUT SW WING OF BUFFALO RIVER BRIDGE	94	3.79	12.4
MK # 2	PUNCH POINT IN TOP GUARD RAIL POST	0	4.13	13.5
MK # 3	PUNCH POINT IN TOP OF GUARD RAIL POST	317	9.13	30.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 VERONA	THE ELEVATION BY 3-WIRE USING AN AHTD BENCH MARK DISK SET IN THE TOP OF THE SOUTHEAST PARAPET WALL OF BRIDGE #6200 OVER THE BUFFALO RIVER. ELEVATION = 191.781 METERS.
Ref Mon # 2 BURLINGTON	
Ref Mon # 3 640002	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640003A	Date Monumented 6/26/1996	Monumented By AHTD	County SEARCY	Route 65	Job Number: R90098
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	183,124.2369	
Easting (M)	332,778.1350	
Elevation (M)*	201.507	
Northing (SFT)	600,800.1006	
Easting (SFT)	1,091,789.5979	
Elevation (SFT)*	661.111	

Convergence Angle	0	26	1.5291095
Scale Factor	0.999959926		
Elevation Adjust. Factor	0.9999683780		
Combined Adjust. Factor	0.9999283052		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RIGHT OF WAY MARKER, REBAR W/CAP	347	27.67	90.8
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	VERONA
Ref Mon # 2	BURLINGTON
Ref Mon # 3	640002

Comments
THE ELEVATION BY 3-WIRE USING AN AHTD BENCH MARK DISK SET IN THE TOP OF THE SOUTHEAST PARAPET WALL OF BRIDGE #6200 OVER THE BUFFALO RIVER. ELEVATION = 191.781 METERS.

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	35 58 53.9469696
Longitude	92 44 43.5048108
Ellipsoid Height (M):	172.671
Geoid Height (M):	-28.836

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65 AND STATE HWY-333 EAST (THIS INTERSECTION IS ABOUT 4.8 KM. SOUTH OF THE SMALL TOWN OF ST. JOE) GO SOUTH ON HWY-65 FOR 2.90 KM. (1.80ML) TO THE JUNCTION WITH "GRINDERS FERRY ACCESS" ROAD AND THE STATION ON THE LEFT. 14.13 METERS NORTHEAST OF THE CENTER OF HWY-65. 14.05 METERS SOUTHEAST OF THE CENTER OF "GRINDERS FERRY ACCESS" ROAD AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640003A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640004	Date Monumented 6/26/1996	Monumented By AHTD	County SEARCY	Route 65	Job Number: R90098
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	186,160.2619	
Easting (M)	329,953.5660	
Elevation (M)*	272.475	
Northing (SFT)	610,760.7926	
Easting (SFT)	1,082,522.6578	
Elevation (SFT)*	893.945	

Convergence Angle	0	27	7.6962390
Scale Factor	0.999963321		
Elevation Adjust. Factor	0.9999572416		
Combined Adjust. Factor	0.9999205642		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RAILROAD TIE GATE POST	141	7.92	26.0
MK # 2	GUY POLE W/TBM-12	61	19.75	64.8
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>VERONA</td> </tr> <tr> <td>Ref Mon # 2</td> <td>BURLINGTON</td> </tr> <tr> <td>Ref Mon # 3</td> <td>640002</td> </tr> </table>	Ref Mon # 1	VERONA	Ref Mon # 2	BURLINGTON	Ref Mon # 3	640002	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	VERONA							
Ref Mon # 2	BURLINGTON							
Ref Mon # 3	640002							
Comments								

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NGVD 29

Geoid Datum:

Latitude 36 0 31.7414556

Longitude 92 46 37.2137448

Ellipsoid Height (M): 243.611

Geoid Height (M): -28.864

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65 AND STATE HWY-374 EAST IN THE SMALL TOWN OF ST. JOE, GO SOUTH ON HWY-65 FOR 3.30 KM. (2.05 MI.) TO THE STATION ON THE RIGHT. 10.2 METERS SOUTHWEST OF THE CENTER OF HWY-65, 10.1 METERS NORTHWEST OF THE CENTER OF A FIELD ENTRANCE WITH A GATE WITH THE NAME "LANE" ON IT AND 1.55 METERS NORTHEAST OF A WITNESS POST SET NEAR A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640004 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640004A	Date Monumented 6/26/1996	Monumented By AHTD	County SEARCY	Route 65	Job Number: R90098
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	186,446.7409	
Easting (M)	329,613.0260	
Elevation (M)*	275.077	
Northing (SFT)	611,700.6824	
Easting (SFT)	1,081,405.4028	
Elevation (SFT)*	902.482	

Convergence Angle	0	27	15.6619588
Scale Factor	0.999963653		
Elevation Adjust. Factor	0.9999568333		
Combined Adjust. Factor	0.9999204879		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>VERONA</td> </tr> <tr> <td>Ref Mon # 2</td> <td>BURLINGTON</td> </tr> <tr> <td>Ref Mon # 3</td> <td>640002</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	VERONA	Ref Mon # 2	BURLINGTON	Ref Mon # 3	640002	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	VERONA										
Ref Mon # 2	BURLINGTON										
Ref Mon # 3	640002										
Comments											

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NGVD 29

Geoid Datum:

Latitude 36 0 40.9487292

Longitude 92 46 50.9029212

Ellipsoid Height (M): 246.210

Geoid Height (M): -28.867

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65 AND STATE HWY-374 EAST IN THE SMALL TOWN OF ST. JOE, GO SOUTH ON HWY-65 FOR 2.82 KM. (1.75 MI.) TO THE STATION ON THE RIGHT. 56.2 METERS NORTHWEST OF THE CENTER OF A DRIVEWAY, 11.9 METERS SOUTHWEST OF THE CENTER OF HWY-65 AND 0.72 METERS NORTHEAST OF A WITNESS POST SET NEAR A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640004A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	640004
Geodetic Azimuth	129 37 04.22433
Grid Azimuth	130 04 19.92758

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640005	Date Monumented 6/26/1996	Monumented By AHTD	County SEARCY	Route 65	Job Number: R90098
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	191,903.0530	
Easting (M)	321,619.3340	
Elevation (M)*	338.455	
Northing (SFT)	629,601.9331	
Easting (SFT)	1,055,179.4316	
Elevation (SFT)*	1,110.414	

Convergence Angle	0	30	22.5315898
Scale Factor	0.999970321		
Elevation Adjust. Factor	0.9999468882		
Combined Adjust. Factor	0.9999172108		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	311	52.50	172.2
MK # 2	WATER VALVE	93	33.25	109.1
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>VERONA</td> </tr> <tr> <td>Ref Mon # 2</td> <td>BURLINGTON</td> </tr> <tr> <td>Ref Mon # 3</td> <td>640002</td> </tr> </table>	Ref Mon # 1	VERONA	Ref Mon # 2	BURLINGTON	Ref Mon # 3	640002	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	VERONA						
Ref Mon # 2	BURLINGTON						
Ref Mon # 3	640002						

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	36 3 35.8000416
Longitude	92 52 12.0404208
Ellipsoid Height (M):	309.542
Geoid Height (M):	-28.913

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65 AND STATE HWY-235 ABOUT 8.0 KM. NORTH OF THE SMALL TOWN OF ST. JOE, GO NORTH ON HWY-65 FOR 0.56KM. (0.35 MI.) TO THE STATION ON THE RIGHT. 48.5 METERS SOUTH-SOUTHEAST OF THE CENTER OF A DRIVEWAY, 9.10 METERS NORTH-NORTHEAST OF THE CENTER OF HWY-65 AND 0.50 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640005 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640005A	Date Monumented 6/26/1996	Monumented By AHTD	County SEARCY	Route 65	Job Number: R90098
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	191,672.1080	
Easting (M)	322,065.1510	
Elevation (M)*	343.538	
Northing (SFT)	628,844.2410	
Easting (SFT)	1,056,642.0829	
Elevation (SFT)*	1,127.091	

Convergence Angle	0	30	12.1186732
Scale Factor	0.999970026		
Elevation Adjust. Factor	0.9999460906		
Combined Adjust. Factor	0.9999161182		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	114	28.12	92.2
MK # 2	COMBINATION POLE	297	24.85	81.5
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	VERONA
Ref Mon # 2	BURLINGTON
Ref Mon # 3	640002

Comments

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NGVD 29

Geoid Datum:

Latitude 36 3 28.4347476

Longitude 92 51 54.1457100

Ellipsoid Height (M): 314.626

Geoid Height (M): -28.912

Location Description

THE STATION IS LOCATED JUST NORTH OF THE JUNCTION OF U.S. HWY-65 AND STATE HWY-235 ABOUT 8.0 KM. NORTH OF THE SMALL TOWN OF ST. JOE. 48.87 METERS NORTHWEST OF THE CENTER OF HWY-235, 12.47 METERS NORTH-NORTHEAST OF THE CENTER OF HWY-65 AND 1.38 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640005A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	640005
Geodetic Azimuth	296 52 55.53264
Grid Azimuth	297 23 07.59126

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640006	Date Monumented 6/26/1996	Monumented By AHTD	County SEARCY	Route 65	Job Number: R90098
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	193,590.2889	
Easting (M)	314,937.5080	
Elevation (M)*	380.444	
Northing (SFT)	635,137.4728	
Easting (SFT)	1,033,257.4742	
Elevation (SFT)*	1,248.173	

Convergence Angle	0	32	58.2665907
Scale Factor	0.999972474		
Elevation Adjust. Factor	0.9999402995		
Combined Adjust. Factor	0.9999127751		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE WITH TBM-1	348	12.64	41.5
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 VERONA	
Ref Mon # 2 BURLINGTON	
Ref Mon # 3 640002	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	36 4 28.5426984
Longitude	92 56 39.6727188
Ellipsoid Height (M):	351.528
Geoid Height (M):	-28.916

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65, 65B AND STATE HWY-123 IN WESTERN GROVE, GO SOUTH ON HWY-65 FOR 2.41KM. (1.50 MI.) TO THE STATION ON THE LEFT. 42.23 METERS SOUTH OF THE CENTER OF THE NORTHERN MOST DRIVEWAY, 51.68 METERS NORTH OF THE CENTER OF THE SOUTHERN MOST DRIVEWAY, 9.0 METERS WEST OF THE CENTER OF HWY-65 AND 12.40 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640006 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640007	Date Monumented 10/30/1996	Monumented By AHTD	County SEARCY	Route 65	Job Number: 090280
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 167,002.8889		Latitude 35 50 14.2010664
Easting (M) 348,053.0520		Longitude 92 34 29.9860572
Elevation (M)* 310.619		Ellipsoid Height (M): 282.773
		Geoid Height (M): -27.846

Northing (SFT) 547,908.6447		
Easting (SFT) 1,141,904.0548		
Elevation (SFT)* 1,019.089		

Convergence Angle 0 20 4.5230817		
Scale Factor 0.999945656		
Elevation Adjust. Factor 0.9999512561		
Combined Adjust. Factor 0.9998969148		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 66 IN THE SMALL TOWN OF LESLIE GO NORTH ON HWY-65 FOR 1.53 KM. (0.95 MI.) TO THE STATION ON THE LEFT. 33.83 METERS SOUTHEAST OF THE CENTER OF SEARCY COUNTY ROAD NUMBER 43, 17.38 METERS SOUTHWEST OF THE CENTER OF HWY-65 AND 0.97 METERS NORTHEAST OF A WITNESS POST SET IN A FENCELINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640007 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	228	1.12	3.7
MK # 2	CENTER OF HEADWALL	356	12.96	42.5
MK # 3	CONCRETE RIGHT OF WAY MARKER	45	35.47	116.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK "B 7" SET IN THE OLD LESLIE RAILROAD STATION. ELEVATION = 298.704 METERS.
Ref Mon # 2 ARHR	
Ref Mon # 3 ARBT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640007-1	Date Monumented 10/30/1996	Monumented By AHTD	County SEARCY	Route 65	Job Number: RX0021
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Zone Arkansas South	Zone Code 	Vertical Determined By: 3rd Order - 3 Wire Level
Horizontal Datum 		Elevation Datum: NAVD 88
Northing (M) 	#Error 	Geoid Datum:
Easting (M) 	#Error 	Latitude
Elevation (M)* 310.632		Longitude
Northing (SFT) 	#Type! 	Ellipsoid Height (M):
Easting (SFT) 	#Type! 	Geoid Height (M):
Elevation (SFT)* 1,019.132		

Convergence Angle ###/###	#Error 	Location Description
Scale Factor 	#Error 	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 66 IN THE SMALL TOWN OF LESLIE GO NORTH ON HWY-65 FOR 1.53 KM. (0.95 MI.) TO THE STATION ON THE LEFT. 33.83 METERS SOUTHEAST OF THE CENTER OF SEARCY COUNTY ROAD NUMBER 43, 17.38 METERS SOUTHWEST OF THE CENTER OF HWY-65 AND 0.97 METERS NORTHEAST OF A WITNESS POST SET IN A FENCELINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640007 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 0.9999512541		
Combined Adjust. Factor 	#Type! 	

SUPERCEDED CONTROL			
Horizontal Datum 		Latitude 	
Longitude 		Ellipsoid Height: 	
Grid Northing (Meters) 		Grid Easting (Meters) 	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	228	1.12	3.7
MK # 2	CENTER OF HEADWALL	356	12.96	42.5
MK # 3	CONCRETE RIGHT OF WAY MARKER	45	35.47	116.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 VERONA	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK "B 7" SET IN THE OLD LESLIE RAILROAD STATION. ELEVATION = 298.704 METERS.
Ref Mon # 2 EVANS AZ	
Ref Mon # 3 640001	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640007A	Date Monumented 10/30/1996	Monumented By AHTD	County SEARCY	Route 65	Job Number: 090280
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	167,529.8810	
Easting (M)	347,793.2540	
Elevation (M)*	303.705	
Northing (SFT)	549,637.6179	
Easting (SFT)	1,141,051.7008	
Elevation (SFT)*	996.405	

Convergence Angle	0	20	10.6187470
Scale Factor	0.999946023		
Elevation Adjust. Factor	0.9999523411		
Combined Adjust. Factor	0.9998983666		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	148	15.30	50.2
MK # 2	NORTHWEST END OF METAL PIPE	125	21.65	71.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK "B 7" SET IN THE OLD LESLIE RAILROAD STATION. ELEVATION = 298.704 METERS.
Ref Mon # 2 ARHR	
Ref Mon # 3 ARBT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640007A-1	Date Monumented 10/30/1996	Monumented By AHTD	County SEARCY	Route 65	Job Number: RX0021
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Zone Arkansas South	Zone Code 	Vertical Determined By: 3rd Order - 3 Wire Level
Horizontal Datum 		Elevation Datum: NAVD 88
Northing (M) 	#Error 	Geoid Datum:
Easting (M) 	#Error 	Latitude
Elevation (M)* 303.709		Longitude
Northing (SFT) 	#Type! 	Ellipsoid Height (M):
Easting (SFT) 	#Type! 	Geoid Height (M):
Elevation (SFT)* 996.419		

Convergence Angle ###/###	#Error 	Location Description
Scale Factor 	#Error 	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 66 IN THE SMALL TOWN OF LESLIE GO NORTH ON HWY-65 FOR 2.17 KM. (1.35 MI.) TO THE STATION ON THE LEFT, 24.0 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE, 21.72 METERS SOUTHWEST OF THE CENTER OF HWY-65 AND 1.17 METERS EAST-NORTHEAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640007A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 0.9999523404		
Combined Adjust. Factor 	#Type! 	

SUPERCEDED CONTROL			
Horizontal Datum 		Latitude 	
Longitude 		Ellipsoid Height: 	
Grid Northing (Meters) 		Grid Easting (Meters) 	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	148	15.30	50.2
MK # 2	NORTHWEST END OF METAL PIPE	125	21.65	71.0
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 VERONA	<p>ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK "B 7" SET IN THE OLD LESLIE RAILROAD STATION. ELEVATION = 298.704 METERS.</p>
Ref Mon # 2 EVANS AZ	
Ref Mon # 3 640001	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640008	Date Monumented 10/30/1996	Monumented By AHTD	County SEARCY	Route 65	Job Number: RX0021
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	174,930.8740	
Easting (M)	340,046.3950	
Elevation (M)*	287.650	
Northing (SFT)	573,919.0424	
Easting (SFT)	1,115,635.5476	
Elevation (SFT)*	943.732	

Convergence Angle	0	23	11.4127457
Scale Factor	0.999951880		
Elevation Adjust. Factor	0.9999548604		
Combined Adjust. Factor	0.9999067425		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	262	8.33	27.3
MK # 2	RIGHT OF WAY MARKER SIGN	358	22.84	74.9
MK # 3	WOODEN FENCE POST	98	34.65	113.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 VERONA Ref Mon # 2 EVANS AZ Ref Mon # 3 640001	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK "W 149" ELEVATION =289.932 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640008A	Date Monumented 10/30/1996	Monumented By AHTD	County SEARCY	Route 65	Job Number: RX0021,090452
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	174,867.2735	0.0019	
Easting (M)	340,768.5530	0.0022	
Elevation (M)*	286.303		

Northing (SFT)	573,710.3798		
Easting (SFT)	1,118,004.8276		
Elevation (SFT)*	939.312		

Convergence Angle	0	22	54.6434509
Scale Factor	0.999951828		
Elevation Adjust. Factor	0.9999550717		
Combined Adjust. Factor	0.9999069019		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	54	27.9046656
Longitude	92	39	22.3396704
Ellipsoid Height:	257.558		
Grid Northing (Meters)	174,867.6549		
Grid Easting (Meters)	340,768.5580		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER OF ROCK ENTRANCE POST	146	2.08	6.8
MK # 2	WOODEN FENCE CORNER POST	251	7.28	23.9
MK # 3	WEST END OF A METAL DRAIN PIPE	303	5.60	18.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 VERONA Ref Mon # 2 EVANS AZ Ref Mon # 3 640001	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK "W 149" ELEVATION = 289.932.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640009	Date Monumented 9/25/2003	Monumented By AHTD	County SEARCY	Route 74	Job Number: 009831
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	175,461.3559	
Easting (M)	328,038.0210	
Elevation (M)*	276.241	
Northing (SFT)	575,659.4651	
Easting (SFT)	1,076,238.0739	
Elevation (SFT)*	906.300	

Convergence Angle	0	27	50.1935115
Scale Factor	0.999952274		
Elevation Adjust. Factor	0.9999566507		
Combined Adjust. Factor	0.9999089268		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY	78	11.10	36.4
MK # 2	POWER POLE	70	18.45	60.5
MK # 3	FENCE CORNER	50	16.50	54.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CONWAY CORS	ELEV. ESTABLISHED BY DIGITAL LEVELS FROM NGS 2ND ORDER BM K 149 BY S5112 FOR JOB #009831 IN AUG. 2012.
Ref Mon # 2 W. H. PHILLIPS	
Ref Mon # 3 TRI COUNTY	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	35 54 44.1189108
Longitude	92 47 50.2457712
Ellipsoid Height (M):	248.072
Geoid Height (M):	-28.096

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 65 AND HIGHWAY 74, EAST OF SNOWBALL, GO WEST ON HIGHWAY 74 5.9 MILES TO A GRAVEL DRIVE ON THE LEFT THAT LEADS TO McDANIEL CEMETERY, TURN LEFT HERE AND GO 0.05 MILES TO THE STATION ON THE RIGHT, LOCATED AT THE NORTHEAST CORNER OF THE CEMETERY FENCE AND EAST 2.60 METERS OF THE DRIVE AND NORTH 3.30 OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640009 2003" ON TOP OF A 0.60 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640009A	Date Monumented 9/25/2003	Monumented By AHTD	County SEARCY	Route 74	Job Number: 009831
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	176,140.6559				
Easting (M)	328,843.3180				
Elevation (M)*	259.872				
Northing (SFT)	577,888.1352				
Easting (SFT)	1,078,880.1191				
Elevation (SFT)*	852.595				

Convergence Angle	0	27	31.6301063
Scale Factor	0.999952896		
Elevation Adjust. Factor	0.9999592193		
Combined Adjust. Factor	0.9999121173		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CONWAY CORS	ELEV. ESTABLISHED BY DIGITAL LEVELS FROM NGS 2ND ORDER BM K 149 BY S5112 FOR JOB #009831 IN AUG. 2012.
Ref Mon # 2 W. H. PHILLIPS	
Ref Mon # 3 TRI COUNTY	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	35 55 6.3694416
Longitude	92 47 18.3443568
Ellipsoid Height (M):	231.706
Geoid Height (M):	-28.107

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 74 AND HIGHWAY 65, EAST OF SNOWBALL, GO WEST ON HIGHWAY 74 5.05 MILES TO COUNTY ROAD 34 ON THE RIGHT, TURN RIGHT HERE AND GO 0.20 MILES TO THE STATION ON THE LEFT, NORTH 4.90 METERS OF THE CENTERLINE AND SOUTH 1.30 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640009A 2003" ON TOP OF A 0.87 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640010	Date Monumented 9/25/2003	Monumented By AHTD	County SEARCY	Route 377	Job Number: BR6401
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	173,109.1199	
Easting (M)	325,599.9120	
Elevation (M)*	238.344	
Northing (SFT)	567,942.1709	
Easting (SFT)	1,068,239.0446	
Elevation (SFT)*	781.968	

Convergence Angle	0	28	46.3210202
Scale Factor	0.999950213		
Elevation Adjust. Factor	0.9999625974		
Combined Adjust. Factor	0.9999128123		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	BLACK WALNUT	69	21.00	68.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CONWAY CORS	3-WIRE LEVELS RAN FROM NGS MARK L 149 BY CREW S5109 IN MAY 2008. *NOTE: REPORTED DESTROYED IN AUG. 2012 BY S5112 & REPLACED WITH GPS 640014.
Ref Mon # 2 W. H. PHILLIPS	
Ref Mon # 3 TRI COUNTY	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 53 27.1482756
Longitude	92 49 26.7015072
Ellipsoid Height (M):	210.211
Geoid Height (M):	-28.058

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 74 AND HIGHWAY 377, IN SNOWBALL, GO SOUTH ON HIGHWAY 377 TO COUNTY ROAD 5 ON THE LEFT, TURN LEFT ON COUNTY ROAD 5 AND GO 0.35 MILES TO THE STATION ON THE RIGHT, SOUTH 3.60 METERS OF THE CENTERLINE AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640010 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	640010A
Geodetic Azimuth	220 39 50
Grid Azimuth	221 08 36

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640010A	Date Monumented 9/25/2003	Monumented By AHTD	County SEARCY	Route 377	Job Number: 009831,BR6401
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	172,461.7458	
Easting (M)	325,034.2921	
Elevation (M)*	243.596	
Northing (SFT)	565,818.2443	
Easting (SFT)	1,066,383.3400	
Elevation (SFT)*	799.199	

Convergence Angle	0	28	59.3179369
Scale Factor	0.999949670		
Elevation Adjust. Factor	0.9999617733		
Combined Adjust. Factor	0.9999114452		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	53	5.9896968
Longitude	92	49	49.0362564
Ellipsoid Height:	215.479		
Grid Northing (Meters)	172,461.7449		
Grid Easting (Meters)	325,034.3070		

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 74 AND HIGHWAY 377, IN SNOWBALL, GO SOUTH ON HIGHWAY 377 1.6 MILES TO THE STATION ON THE RIGHT, WEST 10.2 METERS OF THE CENTERLINE AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640010A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 CONWAY CORS</p> <p>Ref Mon # 2 W. H. PHILLIPS</p> <p>Ref Mon # 3 TRI COUNTY</p>	<p style="text-align: center;">Comments</p> <p>PREVIOUS ELEV. (243.601 m) BY 3-WIRE LEVELS RAN FROM NGS MARK L 149 BY CREW S5109 IN MAY 2008. *UPDATED ELEV. BY DIGITAL LEVELS RE-RAN FROM NGS 2ND ORDER BM L 149 IN AUG. 2012 BY S5112 & CHECKED AGAINST STATIC GPS SET-UP ON 2ND ORDER NGS BM TT 72 TX. *Note: Used elev. on this monument from digital levels in final static adjustment.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640011	Date Monumented 12/5/2008	Monumented By AHTD	County SEARCY	Route 66	Job Number: 050164
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	165,958.3779	
Easting (M)	349,231.7600	
Elevation (M)*	296.546	
Northing (SFT)	544,481.7782	
Easting (SFT)	1,145,771.1993	
Elevation (SFT)*	972.918	

Convergence Angle	0	19	37.0541102
Scale Factor	0.999944950		
Elevation Adjust. Factor	0.9999534644		
Combined Adjust. Factor	0.9998984170		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 49 40.5310764
Longitude	92 33 42.7803300
Ellipsoid Height (M):	268.716
Geoid Height (M):	-27.830

Location Description
<p>The station is located on the east edge of a vacant lot at the southeast corner of the intersection of highways 65 and 66 in Leslie. 152.0 feet northeast of the center of hwy-65, 81.0 feet southeast of the center of hwy-66 and 1.50 feet southwest of a witness post. The station mark is a 2 1/2 inch cap stamped "640011 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Service pole	2	7.92	26.0	
MK # 2	Southwest corner of a bridge	334	20.27	66.5	
MK # 3	Combination pole	310	19.60	64.3	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	
Ref Mon # 2 ARHR	
Ref Mon # 3 ARBT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640012	Date Monumented 2/28/2011	Monumented By AHTD	County Searcy	Route 27	Job Number: 090304
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	166,819.3259	
Easting (M)	330,640.5100	
Elevation (M)*	265.094	
Northing (SFT)	547,306.4051	
Easting (SFT)	1,084,776.4066	
Elevation (SFT)*	869.729	

Convergence Angle	0	26	48.2299864
Scale Factor	0.999945447		
Elevation Adjust. Factor	0.9999583998		
Combined Adjust. Factor	0.9999038491		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center of gate	262	7.01	23.0
MK # 2	Center of boc culvert	181	13.87	45.5
MK # 3	Combination pole	14	43.89	144.0

Area Reference Monuments (used for Processing) Ref Mon # 1 W H Phillips, P 277 Ref Mon # 2 ARFY, ARBT Ref Mon # 3 ARHR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">AZ Mark Station</th> <td style="text-align: center;">640012A</td> </tr> <tr> <th style="text-align: center;">Geodetic Azimuth</th> <td style="text-align: center;">188 41 28</td> </tr> <tr> <th style="text-align: center;">Grid Azimuth</th> <td style="text-align: center;">189 08 15</td> </tr> </table> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>	AZ Mark Station	640012A	Geodetic Azimuth	188 41 28	Grid Azimuth	189 08 15
AZ Mark Station	640012A						
Geodetic Azimuth	188 41 28						
Grid Azimuth	189 08 15						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640012A	Date Monumented 2/28/2011	Monumented By AHTD	County Searcy	Route 27	Job Number: 090304
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	167,305.1840
Easting (M)	330,718.6570
Elevation (M)*	263.067
Northing (SFT)	548,900.4245
Easting (SFT)	1,085,032.7938
Elevation (SFT)*	863.079

Convergence Angle	0 26 46.5058141
Scale Factor	0.999945784
Elevation Adjust. Factor	0.9999587179
Combined Adjust. Factor	0.9999045042

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>To reach from the intersection of Highway 333 South and Highway 27 southwest of Marshall, go south on Highway 27 for 4.7 miles to the station on the right, 29 feet west of the centerline of Highway 27 and 6 feet east of a witness post. The station mark is a standard 2 1/2" cap stamped "640012A 2011" and set on top of a 4 foot long rebar driven 0.2 feet below ground level.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18" by 24" arched RCP w/ flared end section	196	36.58	120.0
MK # 2	Combination Pole	296	14.33	47.0
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 W H Phillips, P 277</p> <p>Ref Mon # 2 ARFY, ARBT</p> <p>Ref Mon # 3 ARHR</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640013	Date Monumented 3/1/2011	Monumented By AHTD	County Searcy	Route 27	Job Number: 090304
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	164,042.7310	
Easting (M)	329,325.1090	
Elevation (M)*	289.725	
Northing (SFT)	538,196.8600	
Easting (SFT)	1,080,460.7951	
Elevation (SFT)*	950.539	

Convergence Angle	0	27	18.2174378
Scale Factor	0.999943633		
Elevation Adjust. Factor	0.9999545348		
Combined Adjust. Factor	0.9998981703		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center of gate	83	5.49	18.0
MK # 2	Center of double box culvert	232	18.29	60.0
MK # 3	Center of single box culvert	9	23.47	77.0

Area Reference Monuments (used for Processing) Ref Mon # 1 W H Phillips, P 277 Ref Mon # 2 ARFY, ARBT Ref Mon # 3 ARHR	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	48	33.9671340
Longitude	92	46	55.2945396
Ellipsoid Height (M):	261.824		
Geoid Height (M):	-27.900		

Location Description
To reach from the intersection of Highway 333 South and Highway 27 southwest of Marshall, go south on Highway 27 for 7 miles to the station on the left, 30.5 feet east of the centerline of Highway 27 and 12.5 feet west of a witness post. The station mark is a standard 2 1/2" cap stamped "640013 2011" and set on top of a 4 foot long rebar driven 0.2 feet below ground level.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640013A	Date Monumented 3/1/2011	Monumented By AHTD	County Searcy	Route 27	Job Number: 090304
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	163,843.5980	
Easting (M)	329,176.8320	
Elevation (M)*	293.610	
Northing (SFT)	537,543.5378	
Easting (SFT)	1,079,974.3230	
Elevation (SFT)*	963.285	

Convergence Angle	0	27	21.6175612
Scale Factor	0.999943510		
Elevation Adjust. Factor	0.9999539251		
Combined Adjust. Factor	0.9998974377		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach from the intersection of Highway 333 South and Highway 27 southwest of Marshall, go south on Highway 27 for 7.2 miles to the station on the right, 34.5 feet west of the centerline of Highway 27, 1.5 feet east of a witness post, 1.5 feet east of a fence and 127 feet south of the center of a gravel driveway. The station mark is a standard 2 1/2" cap stamped "640013A 2011" and set on top of a 4 foot long rebar driven 0.2 feet below ground level.</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1					AZ Mark Station	640013
MK # 2					Geodetic Azimuth	216 13 01
MK # 3					Grid Azimuth	216 40 19

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 W H Phillips, P 277	
Ref Mon # 2 ARFY, ARBT	
Ref Mon # 3 ARHR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640014	Date Monumented 8/16/2012	Monumented By AHTD	County SEARCY	Route N/A	Job Number: 009831
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	173,081.1041	
Easting (M)	325,487.1695	
Elevation (M)*	239.233	
Northing (SFT)	567,850.2557	
Easting (SFT)	1,067,869.1553	
Elevation (SFT)*	784.885	

Convergence Angle	0	28	48.9314383
Scale Factor	0.999950188		
Elevation Adjust. Factor	0.9999624579		
Combined Adjust. Factor	0.9999126477		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER BRIDGE	271	6.10	20.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 P777	ELEVATIONS FROM L 149 USING DIGITAL 3 WIRE LEVELS BY CREW S5112 ON 8/2012. CHECKED AGAINST 640009 WHICH HAD ELEVATIONS FROM K 149 USING DIGITAL 3 WIRE LEVELS AND BY OCCUPYING TT 72 TX WITH GPS BY CREW S5112 ON 8/2012 (digital level loop elev. on this monumbent used as constraint in final static adjustment). *Note: This monument was set to replace GPS #640010 that was found destroyed by S5112 in Aug. 2012.
Ref Mon # 2 MOBR	
Ref Mon # 3 W H PHILLIPS	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	35 53 26.2086504
Longitude	92 49 31.1875392
Ellipsoid Height (M):	211.176
Geoid Height (M):	-28.058

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 74 AND STATE HIGHWAY 377, IN SNOWBALL, GO SOUTH ON HIGHWAY 377 FOR 1.2 MILES TO LICK FORK ROAD ON THE LEFT, TURN LEFT HERE (EAST) AND GO 0.05 MILES TO THE MARK ON THE RIGHT, AT THE SOUTHEAST CORNER OF THE LICK FORK BRIDGE AND SOUTH 19 FEET OF THE CENTERLINE OF THE ROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "640014 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

AZ Mark Station	640010A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640015	Date Monumented 10/7/2015	Monumented By AHTD	County SEARCY	Route 65	Job Number: 090452
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	174,930.9713	0.0019			
Easting (M)	339,969.6583	0.0022			
Elevation (M)*	289.177	0.0013			
Northing (SFT)	573,919.3617				
Easting (SFT)	1,115,383.7873				
Elevation (SFT)*	948.742				

Convergence Angle	0	23	13.1936251
Scale Factor	0.999951880		
Elevation Adjust. Factor	0.9999546207		
Combined Adjust. Factor	0.9999065029		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	174	1.40	4.6
MK # 2	18" CORRUGATED METAL PIPE	77	11.30	37.1
MK # 3	COMBINATION POLE	101	21.30	69.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR Ref Mon # 2 P777 Ref Mon # 3 TRI COUNTY	Three wire ran in October 2015, by crew S5102 using NGS BM Y6.

Vertical Determined By: 3rd Order - 3 Wire Levels	
Elevation Datum: NAVD 88	
Geoid Datum: Geoid12A	
Latitude	35 54 29.7850968
Longitude	92 39 54.2184444
Ellipsoid Height (M):	261.080 0.0105
Geoid Height (M):	-28.109

Location Description
TO REACH FROM THE JUNCTION OF HWY. 333 AND HWY. 65 IN MARSHALL. GO EAST ON HWY. 65 FOR 0.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS 64 FT. SOUTH OF THE CENTERLINE OF HWY. 65, AND 4 FT. NORTH OF A WITNESS POST. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "640015 2015" SET ON TOP OF A 5/8 IN. BY 2 FT REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640016	Date Monumented 5/16/2017	Monumented By AHTD	County SEARCY	Route 65	Job Number: 090498
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	179,325.2630	0.0030	
Easting (M)	334,546.2722	0.0030	
Elevation (M)*	196.120		
Northing (SFT)	588,336.3004		
Easting (SFT)	1,097,590.5614		
Elevation (SFT)*	643.436		

Convergence Angle	0	25	19.8074839
Scale Factor	0.999955981		
Elevation Adjust. Factor	0.9999692234		
Combined Adjust. Factor	0.9999252057		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND THE BUFFALO NATIONAL RIVER BRIDGE, NORTHWEST OF MARSHALL, GO SOUTH ON HIGHWAY 65 3.2 MILES TO THE MARK ON LEFT, EAST 32.4 FEET OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 640016" ON TOP OF A 4' REBAR TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND THE BUFFALO NATIONAL RIVER BRIDGE, NORTHWEST OF MARSHALL, GO SOUTH ON HIGHWAY 65 3.2 MILES TO THE MARK ON LEFT, EAST 32.4 FEET OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 640016" ON TOP OF A 4' REBAR DRIVEN TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND THE BUFFALO NATIONAL RIVER BRIDGE, NORTHWEST OF MARSHALL, GO SOUTH ON HIGHWAY 65 3.2 MILES TO THE MARK ON LEFT, EAST 32.4 FEET OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 640016" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	30	26.21	86.0
MK # 2	36" FLARED END CONCRETE CULVERT	23	26.52	87.0
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARHR</p> <p>Ref Mon # 2 P777</p> <p>Ref Mon # 3 ARRV</p>	<p style="text-align: center;">Comments</p> <p>ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 2ND ORDER AHTD/NGS BM'S V 346 & W 346 FOR JOB #090498 IN MAY 2017.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640016A	Date Monumented 5/16/2017	Monumented By AHTD	County SEARCY	Route 65	Job Number: 090498
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	178,808.2476 0.0030
Easting (M)	334,751.6522 0.0030
Elevation (M)*	196.468

Northing (SFT)	586,640.0590		
Easting (SFT)	1,098,264.3789		
Elevation (SFT)*	644.579		

Convergence Angle	0	25	14.9506486
Scale Factor	0.999955471		
Elevation Adjust. Factor	0.9999691687		
Combined Adjust. Factor	0.9999246411		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

 TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND THE BUFFALO NATIONAL RIVER BRIDGE, NORTHWEST OF MARSHALL, GO SOUTH ON HIGHWAY 65 3.55 MILES TO THE MARK ON LEFT, NORTHEAST 40.5 FEET OF THE C/L OF THE HIGHWAY AND 5.5' NORTHWEST OF THE C/L OF A FIELD ROAD ENTRANCE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 640016A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	FOC	316	7.16	23.5	640016
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)		Comments ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 2ND ORDER AHTD/NGS BM'S V 346 & W 346 FOR JOB #090498 IN MAY 2017.
Ref Mon # 1	ARHR	
Ref Mon # 2	P777	
Ref Mon # 3	ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640017	Date Monumented 5/16/2017	Monumented By AHTD	County SEARCY	Route 65	Job Number: 090498
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	189,112.4848	0.0040			
Easting (M)	326,933.0754	0.0040			
Elevation (M)*	240.404				
Northing (SFT)	620,446.5439				
Easting (SFT)	1,072,612.9315				
Elevation (SFT)*	788.724				

Convergence Angle	0	28	18.4463249
Scale Factor	0.999966835		
Elevation Adjust. Factor	0.9999622743		
Combined Adjust. Factor	0.9999291105		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR	ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 2ND ORDER AHTD/NGS BM'S Q 347 & R 347 FOR JOB #090498 IN MAY 2017.
Ref Mon # 2 P777	
Ref Mon # 3 ARRV	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12B
Latitude	36 2 6.7343316
Longitude	92 48 38.7985392
Ellipsoid Height (M):	212.077 0.0080
Geoid Height (M):	-28.305 0.0080

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND STATE HIGHWAY 374W, IN SAINT JOE, GO NORTH ON 65 0.5 MILES TO THE MARK ON THE LEFT, WEST 31' OF THE C/L OF THE HIGHWAY, 11.6' NORTH AN ASPHALT FIELD ROAD AND EAST 8.9' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 640017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640017A	Date Monumented 5/16/2017	Monumented By AHTD	County SEARCY	Route 65	Job Number: 090498
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	189,585.6884 0.0040
Easting (M)	326,960.2703 0.0040
Elevation (M)*	250.115

Northing (SFT)	621,999.0460
Easting (SFT)	1,072,702.1535
Elevation (SFT)*	820.587

Convergence Angle	0 28 17.9047509
Scale Factor	0.999967423
Elevation Adjust. Factor	0.9999607503
Combined Adjust. Factor	0.9999281746

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND STATE HIGHWAY 374W, IN SAINT JOE, GO NORTH ON 65 0.8 MILES TO THE MARK ON THE RIGHT, EAST 32.3' OF THE C/L OF THE HIGHWAY AND WEST 6.8' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 640017A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 COMBINATION POLE	173	34.44	113.0	AZ Mark Station 640017
MK # 2				Geodetic Azimuth
MK # 3				Grid Azimuth

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARHR</p> <p>Ref Mon # 2 P777</p> <p>Ref Mon # 3 ARR V</p>	<p style="text-align: center;">Comments</p> <p>ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 2ND ORDER AHTD/NGS BM'S Q 347 & R 347 FOR JOB #090498 IN MAY 2017.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650001	Date Monumented 1/23/1992	Monumented By AHTD	County SEBASTIAN	Route 253	Job Number: 40110
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	109,050.7290	
Easting (M)	179,194.1140	
Elevation (M)*		
Northing (SFT)	357,777.2667	
Easting (SFT)	587,906.0223	
Elevation (SFT)*		

Convergence Angle	-1	24	45.8372911
Scale Factor	0.999948891		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
FROM THE ARKANSAS-OKLAHOMA STATE LINE, GO EAST ON HWY. 253 0.45 MILES TO THE STATION ON THE LEFT, THE STATION IS 32.0 FEET NORTH OF THE CENTERLINE OF HWY. 253 IN FRONT OF TWIN CITIES CONCRETE PLANT, 78.0 FEET SOUTHEAST OF THE CONCRETE PLANT DRIVEWAY AND 2.7 FEET NORTH OF A WITNESS POST AND R/W FENCE.			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NBC IN TOP OF FENCE POST	79	7.40	24.3		
MK # 2	NBC IN TOP OF FENCE POST	255	5.08	16.7		
MK # 3	NBC IN TOP OF FENCE POST	269	13.50	44.3		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="GUNN"/> Ref Mon # 2 <input type="text" value="FORT SMITH GIS 103"/> Ref Mon # 3 <input type="text" value="GEORGE"/>	(OLD PN = 92650001) <div style="border: 1px solid black; height: 100px; width: 100%;"></div>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650002	Date Monumented 1/23/1992	Monumented By AHTD	County SEBASTIAN	Route 45	Job Number: 40110
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 105,660.4651		Geoid Datum:
Easting (M) 179,104.2820		Latitude 35 15 40.2608592
Elevation (M)* 		Longitude 94 25 40.3129560
Northing (SFT) 346,654.3759		Ellipsoid Height (M): 117.586
Easting (SFT) 587,611.2985		Geoid Height (M): -30.220
Elevation (SFT)* 		

Convergence Angle -1 24 45.9804879	Location Description THE STATION IS 0.24 MILES SOUTH OF THE JCT. OF HWY. 253 AND HWY. 45, 117.0 FEET WEST OF THE CENTERLINE OF HWY. 45, 130.0 FEET NORTHEAST OF A 12" ELM TREE AND 3.74 FEET NORTH OF A WITNESS POST.
Scale Factor 0.999951738	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL	
Horizontal Datum 	
Latitude 	
Longitude 	
Ellipsoid Height: 	
Grid Northing (Meters) 	
Grid Easting (Meters) 	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 GUNN Ref Mon # 2 FORT SMITH GIS 103 Ref Mon # 3 GEORGE	Comments (OLD PN = 92650002)
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650002A	Date Monumented 1/23/1992	Monumented By AHTD	County SEBASTIAN	Route 45	Job Number: 40110
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 105,873.7271		Geoid Datum:
Easting (M) 178,926.4920		Latitude 35 15 47.0368008
Elevation (M)* 		Longitude 94 25 47.5530204
Northing (SFT) 347,354.0530		Ellipsoid Height (M): 121.653
Easting (SFT) 587,027.9992		Geoid Height (M): -30.215
Elevation (SFT)* 		

Convergence Angle -1 24 50.1934750	Location Description THE STATION IS 0.07 MILES SOUTH OF JCT. OF HWY. 253 AND HWY. 45 SOUTH OF FT.SMITH, 260.0 FEET WEST OF HWY. 45 ON THE ENTRANCE ROAD TO BROWNWOOD ESTATES, 20.0 FEET NORTHEAST OF A PECAN TREE, 16.0 FEET NORTHEAST OF THE END OF A WOOD FENCE AND 2.30 FEET NORTH OF A WITNESS POST.
Scale Factor 0.999951555	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN TOP OF FENCE POST	235	4.77	15.7	AZ Mark Station 92650002
MK # 2	NBC IN TOP OF FENCE POST	80	2.61	8.6	Geodetic Azimuth 138 46 09
MK # 3	NBC IN TOP OF FENCE POST	10	19.90	65.3	Grid Azimuth 140 10 59

Area Reference Monuments (used for Processing) Ref Mon # 1 GUNN Ref Mon # 2 FORT SMITH GIS 103 Ref Mon # 3 GEORGE	Comments (OLD PN = 92650002A)
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650003	Date Monumented 4/20/1992	Monumented By AHTD	County SEBASTIAN	Route 71	Job Number: 40103
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 92,218.4111		Latitude 35 8 35.0048472
Easting (M) 193,074.1520		Longitude 94 16 15.4967520
Elevation (M)* 211.202		Ellipsoid Height (M): 180.000
		Geoid Height (M): -31.206

Northing (SFT) 302,553.2371		
Easting (SFT) 633,444.1137		
Elevation (SFT)* 692.919		

Convergence Angle -1 19 17.3144313		
Scale Factor 0.999965394		
Elevation Adjust. Factor 0.9999668566		
Combined Adjust. Factor 0.9999322518		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
FROM THE JCT. OF I-540 AND HWY. 71 IN FORT SMITH, GO SOUTH ON HWY. 71 14.10 MILES TO A PAVED COUNTY ROAD ON THE RIGHT, THE STATION IS 43 FEET WEST OF THE CENTERLINE OF HWY. 71, 32 FEET EAST OF THE CENTERLINE OF COUNTY ROAD IN A LAWN AND 2.42 FEET EAST OF A WITNESS POST.				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN 30" POST OAK	181	28.17	92.4	AZ Mark Station 92650003A AZ. MK.
MK # 2	NBC IN TELEPHONE POLE	158	8.69	28.5	Geodetic Azimuth 136 21 51
MK # 3	NBC IN 30" POST OAK	307	11.32	37.1	Grid Azimuth 137 41 08

Area Reference Monuments (used for Processing) Ref Mon # 1 PINNACLE Ref Mon # 2 GEORGE Ref Mon # 3 NONE	Comments (OLD PN = 92650003)
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650003A	Date Monumented 4/20/1992	Monumented By AHTD	County SEBASTIAN	Route 71	Job Number: 40103
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 91,930.5701		Latitude 35 8 25.8628200
Easting (M) 193,336.1980		Longitude 94 16 4.8852552
Elevation (M)* 216.643		Ellipsoid Height (M): 185.441
Northing (SFT) 301,608.8787		Geoid Height (M): -31.208
Easting (SFT) 634,303.8429		
Elevation (SFT)* 710.770		

Convergence Angle -1 19 11.1396105	Location Description FROM THE JCT. OF I-540 AND HWY. 71 IN FORT SMITH, GO SOUTH ON HWY. 71 14.30 MILES TO THE STATION ON THE LEFT, THE STATION IS 42 FEET NORTH OF THE CENTERLINE OF HWY. 71 AND 1.52 FEET SOUTH OF A WITNESS POST.
Scale Factor 0.999965734	
Elevation Adjust. Factor 0.9999660028	
Combined Adjust. Factor 0.9999317380	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN TOP OF FENCE POST	313	4.76	15.6	AZ Mark Station 92650003
MK # 2	NBC IN TOP OF FENCE POST	123	4.16	13.6	Geodetic Azimuth 316 21 57
MK # 3	NBC IN TOP OF FENCE POST	127	10.37	34.0	Grid Azimuth 317 41 08

Area Reference Monuments (used for Processing) Ref Mon # 1 PINNACLE Ref Mon # 2 GEORGE Ref Mon # 3 NONE	Comments (OLD PN = 92650003A)
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650004A	Date Monumented 4/20/1992	Monumented By AHTD	County SEBASTIAN	Route 71	Job Number: 40103
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 98,158.1661		Latitude 35 11 46.5512424
Easting (M) 191,546.6340		Longitude 94 17 21.2814312
Elevation (M)* 162.940		Ellipsoid Height (M): 131.882
		Geoid Height (M): -31.079

Northing (SFT) 322,040.5833		
Easting (SFT) 628,432.5817		
Elevation (SFT)* 534.579		

Convergence Angle -1 19 55.5944787		
Scale Factor 0.999958722		
Elevation Adjust. Factor 0.9999744301		
Combined Adjust. Factor 0.9999331531		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
FROM THE JCT. OF I-540 AND HWY. 71 IN FORT SMITH, GO SOUTH ON HWY. 71 10.33 MILES TO THE BRIDGE OVER ADAMSON CREEK, THE STATION IS 21.5 FEET SOUTH OF THE SOUTHEAST BRIDGE END, 25 FEET EAST OF THE CENTERLINE OF HWY. 71 AND 2.0 FEET WEST OF A WITNESS POST.				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	"X" CUT IN SE BRIDGE WINGWALL	344	3.08	10.1	AZ Mark Station 92650004
MK # 2	"X" CUT IN TOP OF GUARD RAIL POST	328	2.84	9.3	Geodetic Azimuth 351 42 57
MK # 3	"X" CUT IN TOP OF GUARD RAIL POST	180	5.38	17.7	Grid Azimuth 353 02 53

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>PINNACLE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>GEORGE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	PINNACLE	Ref Mon # 2	GEORGE	Ref Mon # 3	NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Comments</td> </tr> <tr> <td style="padding: 5px;"> (OLD PN = 92650004A) </td> </tr> </table>	Comments	(OLD PN = 92650004A)
Ref Mon # 1	PINNACLE								
Ref Mon # 2	GEORGE								
Ref Mon # 3	NONE								
Comments									
(OLD PN = 92650004A)									

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650005	Date Monumented 4/20/1992	Monumented By AHTD	County SEBASTIAN	Route 71	Job Number: 40103, 040469, 040823
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	101,181.9138 0.0030
Easting (M)	189,993.2641 0.0030
Elevation (M)*	191.753

Northing (SFT)	331,960.9955
Easting (SFT)	623,336.2340
Elevation (SFT)*	629.110

Convergence Angle	-1	20	32.9472802
Scale Factor	0.999955671		
Elevation Adjust. Factor	0.9999699086		
Combined Adjust. Factor	0.9999255809		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)
Latitude	35 13 23.4770448
Longitude	94 18 25.4634084
Ellipsoid Height:	160.740
Grid Northing (Meters)	101,182.1581
Grid Easting (Meters)	189,993.5030

Location Description

 FROM THE JCT. OF I-540 AND HWY. 71 IN FORT SMITH, GO SOUTH ON HWY. 71 8.10 MILES TO THE STATION ON THE RIGHT, THE STATION IS 60 FEET WEST OF THE CENTERLINE OF THE SOUTHBOUND LANE OF HWY. 71, 46 FEET SOUTH OF THE CENTERLINE OF A COUNTY ROAD AND 5.35 FEET NORTH OF A WITNESS POST.

Location Reference Marks

Description	Azimuth	Distance	
		Meters Feet	
MK # 1 NBC IN TOP OF FENCE POST	142	3.02 9.9	AZ Mark Station 92650005A AZ. MK.
MK # 2 NBC IN POWER POLE	262	47.36 155.4	Geodetic Azimuth 90 53 24
MK # 3 NBC IN COMINATION POLE	286	57.00 187.0	Grid Azimuth 92 13 57

Area Reference Monuments (used for Processing) Ref Mon # 1 ARDQ Ref Mon # 2 ARFY Ref Mon # 3 ARR V	<div style="border: 1px solid black; padding: 5px;"> Comments PRE-HARN REF. MARKS WERE PINNACLE & GEORGE & SUPERCEDED GEOID HT. WAS -31.013m (OLD PN = 92650005) </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650005A	Date Monumented 4/20/1992	Monumented By AHTD	County SEBASTIAN	Route 10	Job Number: 40103, 040469
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 101,163.4111		Latitude 35 13 23.2340700
Easting (M) 190,474.4160		Longitude 94 18 6.4335780
Elevation (M)* 194.886		Ellipsoid Height (M): 163.860
		Geoid Height (M): -31.008

Northing (SFT) 331,900.2913		Location Description
Easting (SFT) 624,914.8132		<p>FROM THE JCT. OF HWY. 71 AND HWY. 10S SOUTH OF FORT SMITH, GO EAST ON HWY. 10S 0.23 MILES TO THE STATION ON THE RIGHT, THE STATION IS 33 FEET SOUTH OF THE CENTERLINE OF HWY. 10S AND 2.00 FEET NORTH OF A WITNESS POST IN A VACANT LOT WEST OF GREENWOOD AUTO SALES.</p>
Elevation (SFT)* 639.388		
Convergence Angle -1 20 21.8684736		
Scale Factor 0.999955679		
Elevation Adjust. Factor 0.9999694170		
Combined Adjust. Factor 0.9999250973		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	130	46.33	152.0
MK # 2	NBC IN COMBINATION POLE	90	33.50	109.9
MK # 3	NBC IN COMBINATION POLE	35	28.44	93.3

Area Reference Monuments (used for Processing) Ref Mon # 1 PINNACLE Ref Mon # 2 GEORGE Ref Mon # 3 NONE	Comments (OLD PN = 92650005A)
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650006	Date Monumented 3/24/1998	Monumented By AHTD	County SEBASTIAN	Route N/A	Job Number: 001747,040373,040748
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	112,368.5514 0.0010
Easting (M)	193,223.6909 0.0010
Elevation (M)*	121.241
Northing (SFT)	368,662.4891
Easting (SFT)	633,934.7259
Elevation (SFT)*	397.773

Convergence Angle	-1	19	24.5767908
Scale Factor	0.999946140		
Elevation Adjust. Factor	0.9999809736		
Combined Adjust. Factor	0.9999271147		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	19	28.8153912
Longitude	94	16	27.9772428
Ellipsoid Height:	91.213		
Grid Northing (Meters)	112,368.5641		
Grid Easting (Meters)	193,223.6900		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER POST	177	60.18	197.4
MK # 2	TELEPHONE JUNCTION BOX	300	36.60	120.1
MK # 3	GUY POLE	304	40.51	132.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY, (FS 2) Ref Mon # 2 ARHR, (Q 299) Ref Mon # 3 OKHV, (GAYLOR)	THERE WAS NO PREVIOUS DOCUMENTATION OF WHAT THE PUBLISHED ELEVATION IS BASED ON. THE PREVIOUS GEOID HT. WAS - 30.038m AND PREVIOUS ELEV. WAS 121.201m. ***** 3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC &

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650006A	Date Monumented 3/24/1998	Monumented By AHTD	County SEBASTIAN	Route N/A	Job Number: 001747,040373,040748
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	112,408.5346 0.0010
Easting (M)	192,571.5380 0.0010
Elevation (M)*	122.585

Northing (SFT)	368,793.6673	
Easting (SFT)	631,795.1209	
Elevation (SFT)*	402.181	

Convergence Angle	-1	19	39.6197891
Scale Factor	0.999946122		
Elevation Adjust. Factor	0.9999807628		
Combined Adjust. Factor	0.9999268858		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	19	29.6225832
Longitude	94	16	53.8295844
Ellipsoid Height:	92.525		
Grid Northing (Meters)	112,408.5371		
Grid Easting (Meters)	192,571.5170		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	24	15.81	51.9
MK # 2	SOUTH END OF A 0.80 METER RCP	103	48.92	160.5
MK # 3	NORTH END OF A 0.80 METER RCP	93	47.25	155.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY, (FS 2) Ref Mon # 2 ARHR, (Q 299) Ref Mon # 3 OKHV, (GAYLOR)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> THERE WAS NO PREVIOUS DOCUMENTATION OF WHAT THE PUBLISHED ELEVATION IS BASED ON. THE PREVIOUS GEOID HT. WAS - 30.046m AND PREVIOUS ELEV. WAS 122.518m. ***** 3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & </td> </tr> </table>	Comments	THERE WAS NO PREVIOUS DOCUMENTATION OF WHAT THE PUBLISHED ELEVATION IS BASED ON. THE PREVIOUS GEOID HT. WAS - 30.046m AND PREVIOUS ELEV. WAS 122.518m. ***** 3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC &
Comments			
THERE WAS NO PREVIOUS DOCUMENTATION OF WHAT THE PUBLISHED ELEVATION IS BASED ON. THE PREVIOUS GEOID HT. WAS - 30.046m AND PREVIOUS ELEV. WAS 122.518m. ***** 3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC &			

Location Description
TO REACH THE STATION FROM THE POST OFFICE IN BARLING GO EAST ON STATE HIGHWAY 22 FOR 1.90 KM (1.18 MI) TO THE MAIN ENTRANCE TO FORT CHAFFEE ON THE RIGHT AND A PAVED ROAD ON THE LEFT, GO LEFT NORTHWEST ON PAVED ROAD FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF A GRAVEL ROAD ON THE RIGHT, GO RIGHT NORTH ON GRAVEL ROAD FOR 0.56 KM (0.35 MI) TO THE JUNCTION OF A GRAVEL ROAD, GO RIGHT EAST ON GRAVEL ROAD FOR 0.56 KM (0.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.70 METERS NORTH OF THE CENTER OF THE GRAVEL ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650006A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.Used as SU 110 in job 001747

AZ Mark Station	650006
Geodetic Azimuth	92 10 46.849963
Grid Azimuth	93 30 26.422565

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650007	Date Monumented 3/24/1998	Monumented By AHTD	County SEBASTIAN	Route N/A	Job Number: 001747,040457,040458
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 110,741.5361		Latitude 35 18 33.5463732
Easting (M) 189,931.9870		Longitude 94 18 36.7640496
Elevation (M)* 145.389		Ellipsoid Height (M): 115.297
Northing (SFT) 363,324.5230		Geoid Height (M): -30.128
Easting (SFT) 623,135.1940		
Elevation (SFT)* 476.997		

Convergence Angle -1 20 39.5177486	
Scale Factor 0.999947382	
Elevation Adjust. Factor 0.9999771842	
Combined Adjust. Factor 0.9999245674	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CENTER OF MAN HOLE COVER	90	41.62	136.6	AZ Mark Station 650007A
MK # 2	0.40 METER PERSIMMON TREE	275	11.95	39.2	Geodetic Azimuth 272 33 47.79849
MK # 3	CORNER POST OF A CHAIN LINK FENCE	4	24.68	81.0	Grid Azimuth 273 54 27.37270

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 FS 2	
Ref Mon # 2 Q 299	
Ref Mon # 3 GAYLOR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650007A	Date Monumented 3/24/1998	Monumented By AHTD	County SEBASTIAN	Route N/A	Job Number: 001747,040458
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	110,791.3421	
Easting (M)	189,202.8390	
Elevation (M)*	134.962	
Northing (SFT)	363,487.9282	
Easting (SFT)	620,742.9810	
Elevation (SFT)*	442.788	

Convergence Angle	-1	20	56.3365737
Scale Factor	0.999947358		
Elevation Adjust. Factor	0.9999788205		
Combined Adjust. Factor	0.9999261796		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	47	35.11	115.2
MK # 2	EAST END OF SOUTH HEADWALL	256	40.58	133.1
MK # 3	EAST END OF NORTH HEADWALL	277	40.96	134.4

Area Reference Monuments (used for Processing) Ref Mon # 1 FS 2 Ref Mon # 2 Q 299 Ref Mon # 3 GAYLOR	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description
TO REACH THE STATION FROM THE POST OFFICE IN BARLING GO EAST ON STATE HIGHWAY 22 FOR 1.90 KM (1.18 MI) TO THE MAIN ENTRANCE TO FORT CHAFFEE ON THE RIGHT, GO RIGHT SOUTH PASS A GAURD HOUSE ON 4TH AVENUE FOR 2.10 KM (1.25 MI) TO A STOP SIGN AND THE JUNCTION OF ROBERTS BOULEVARD, GO RIGHT WEST ON ROBERTS BOULEVARD FOR 2.74 KM (1.70 MI) TO THE STATION SET IN THE MIDDLE OF ROBERTS BOULEVARD. THE STATION IS 6.700 METERS NORTH OF THE SOUTH EDGE OF THE SHOULDER, 6.599 METERS SOUTH OF THE NORTH EDGE OF THE SHOULDER AND 7.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED 650007A 1998" SET ON TOP OF AN IRON ROD 0.50 METERS LONG AND DRIVEN FLUSH WITH THE PAVEMENT.Used as HPT 705 in job 001747

AZ Mark Station	650007	
Geodetic Azimuth	92 33 31.092575	
Grid Azimuth	93 54 27.372701	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650008	Date Monumented 3/24/1998	Monumented By AHTD	County SEBASTIAN	Route N/A	Job Number: 001747
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	108,954.8391	
Easting (M)	188,168.2780	
Elevation (M)*	141.999	
Northing (SFT)	357,462.6679	
Easting (SFT)	617,348.7587	
Elevation (SFT)*	465.875	

Convergence Angle	-1	21	19.1612457
Scale Factor	0.999948794		
Elevation Adjust. Factor	0.9999777162		
Combined Adjust. Factor	0.9999265114		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE POST OFFICE IN BARLING GO EAST ON STATE HIGHWAY 22 FOR 1.90 KM (1.18 MI) TO THE MAIN ENTRANCE TO FORT CHAFFEE ON THE RIGHT. GO RIGHT SOUTH PASS A GAURD HOUSE ON 4TH AVENUE FOR 2.10 KM (1.25 MI) TO A STOP SIGN AND THE JUNCTION OF ROBERTS BOULEVARD, GO RIGHT WEST ON ROBERTS BOULEVARD FOR 2.98 KM (1.85 MI) TO A CURVE TO THE RIGHT, CONTINUE WEST STRAIGHT AHEAD FOR 0.40 KM (0.25 MI) TO THE JUNCTION OF 9TH AVENUE, GO LEFT SOUTH ON 9TH AVENUE FOR 1.21 KM (0.75 MI) TO THE JUNCTION OF A PAVED ROAD AND A GRAVEL ROAD STRAIGHT AHEAD, CONTINUE SOUTH ON GRAVEL ROAD FOR 0.89 KM (0.55 MI) TO A "T" JUNCTION, GO RIGHT NORTHWEST ON A GRAVEL ROAD FOR 0.16 KM (0.10 MI) TO THE STATION ON THE LEFT. THE STATION IS 26.00 METERS NORTHWEST OF A GRAVEL ROAD 10.00 METERS SOUTHWEST OF A GRAVEL ROAD TO A LAKE AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650008 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. Used as HPT 704 in job 001747</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTHWEST END OF A 0.35 METER CMP	116	23.00	75.5	
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 FS 2</p> <p>Ref Mon # 2 Q 299</p> <p>Ref Mon # 3 GAYLOR</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650008A	Date Monumented 3/24/1998	Monumented By AHTD	County SEBASTIAN	Route N/A	Job Number: 001747
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 109,273.4611		Latitude 35 17 44.2966056
Easting (M) 187,809.0940		Longitude 94 19 59.4028164
Elevation (M)* 145.181		Ellipsoid Height (M): 115.007
		Geoid Height (M): -30.199

Northing (SFT) 358,508.0136		
Easting (SFT) 616,170.3359		
Elevation (SFT)* 476.315		

Convergence Angle -1 21 27.6051749		
Scale Factor 0.999948549		
Elevation Adjust. Factor 0.9999772169		
Combined Adjust. Factor 0.9999257671		

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN BARLING GO EAST ON STATE HIGHWAY 22 FOR 1.90 KM (1.18 MI) TO THE MAIN ENTRANCE TO FORT CHAFFEE ON THE RIGHT, GO RIGHT SOUTH PASS A GAURD HOUSE ON 4TH AVENUE FOR 2.10 KM (1.25 MI) TO A STOP SIGN AND THE JUNCTION OF ROBERTS BOULEVARD, GO RIGHT WEST ON ROBERTS BOULEVARD FOR 2.98 KM (1.85 MI) TO A CRUVE TO THE RIGHT, CONTINUE WEST STRAIGHT AHEAD FOR 0.40 KM (0.25 MI) TO THE JUNCTION OF 9TH AVENUE, GO LEFT SOUTH ON 9TH AVENUE FOR 1.21 KM (0.75 MI) TO THE JUNCTION OF A PAVED ROAD AND A GRAVEL ROAD STRAIGHT AHEAD, CONTINUE SOUTH ON GRAVEL ROAD FOR 0.89 KM (0.55 MI) TO A "T" JUNCTION, GO RIGHT NORTHWEST ON A GRAVEL ROAD FOR 0.64 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.32 METERS SOUTHWEST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650008A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Used as VPT 611

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					650008
MK # 2						130 13 03.68242
MK # 3						131 34 31.25771

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 FS 2</p> <p>Ref Mon # 2 Q 299</p> <p>Ref Mon # 3 GAYLOR</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650010	Date Monumented 8/26/1998	Monumented By AHTD	County SEBASTIAN	Route 10	Job Number: 040246
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 97,045.5591		Latitude 35 11 17.3942412
Easting (M) 200,956.1770		Longitude 94 11 8.4204780
Elevation (M)* 200.386		Ellipsoid Height (M): 170.112
		Geoid Height (M): -30.274

Northing (SFT) 318,390.3051		
Easting (SFT) 659,303.7240		
Elevation (SFT)* 657.433		

Convergence Angle -1 16 18.6270152		
Scale Factor 0.999959682		
Elevation Adjust. Factor 0.9999685539		
Combined Adjust. Factor 0.9999282372		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 96, LOCATED ON THE EAST SIDE OF GREENWOOD, GO EAST ON STATE HIGHWAY 10 FOR 6.28 KM (3.90 MI) TO THE STATION ON THE LEFT. THE STATION IS 39.987 METERS WEST OF THE CENTER OF A PAVED DRIVE, 9.703 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10, 1.08 METERS SOUTH OF A WEB WIRE FENCE AND 0.73 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650010 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	WOODEN CORNER POST	180	21.80	71.5		650010A
MK # 2	0.36 METER PINE TREE	161	26.02	85.4		94 05 05.383516
MK # 3	WEST END OF A 0.50 METER RCP	93	36.10	118.4		95 21 23.956984

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: AHTD FS2</p> <p>Ref Mon # 2: OZARPORT</p> <p>Ref Mon # 3: Q 299</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650010A	Date Monumented 8/26/1998	Monumented By AHTD	County SEBASTIAN	Route 10	Job Number: 040246
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 97,000.5841		Latitude 35 11 16.2802212
Easting (M) 201,435.8400		Longitude 94 10 49.4257152
Elevation (M)* 197.546		Ellipsoid Height (M): 167.260
		Geoid Height (M): -30.266

Northing (SFT) 318,242.7497	Easting (SFT) 660,877.4184	Location Description
Elevation (SFT)* 648.116		<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 96, LOCATED ON THE EAST SIDE OF GREENWOOD, GO EAST ON STATE HIGHWAY 10 FOR 6.84 KM (4.25 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.55 METERS WEST OF THE CENTER OF A GRAVEL PASTURE ENTRANCE, 9.15 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10, 1.44 METERS NORTH OF A BARBED WIRE FENCE AND 1.19 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650010A 1998" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Convergence Angle -1 16 7.5739793		
Scale Factor 0.999959719		
Elevation Adjust. Factor 0.9999689996		
Combined Adjust. Factor 0.9999287198		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WOODEN GATE POST	143	15.75	51.7	AZ Mark Station 650010
MK # 2	IRON PIPE CORNER POST	102	8.13	26.7	Geodetic Azimuth 274 05 16.32946
MK # 3	WEST END OF RCP	79	8.20	26.9	Grid Azimuth 275 21 23.95698

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD FS2 Ref Mon # 2 OZARPORT Ref Mon # 3 Q 299	Elevations based on 3 wire from NGS point V 45

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650011	Date Monumented 8/26/1998	Monumented By AHTD	County SEBASTIAN	Route 10	Job Number: 040246
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 96,006.3271		Latitude 35 10 48.8130168
Easting (M) 208,216.8590		Longitude 94 6 20.6084952
Elevation (M)* 183.188		Ellipsoid Height (M): 153.006
		Geoid Height (M): -30.173

Northing (SFT) 314,980.7582		
Easting (SFT) 683,124.8116		
Elevation (SFT)* 601.009		

Convergence Angle -1 13 31.1494734		
Scale Factor 0.999960643		
Elevation Adjust. Factor 0.9999712527		
Combined Adjust. Factor 0.9999318968		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

 TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 252, LOCATED ABOUT 14.50 (9.00 MII) EAST OF GREENWOOD, GO WEST ON STATE HIGHWAY 10 FOR 0.48KM (0.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 39.959 METERS EAST OF THE CENTER OF A PAVED DRIVE, 9.307 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10, 2.38 METERS NORTH OF A BARDED WIRE FENCE AND 2.03 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650011 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	CROSS TIE CORNER POST	228	3.46	11.4	650011A
MK # 2	CENTER OF HEADWALL	278	36.08	118.4	278 05 21.28710
MK # 3					279 18 52.48547

**Area Reference Monuments
(used for Processing)**

Ref Mon # 1	AHTD FS2
Ref Mon # 2	OZARPORT
Ref Mon # 3	Q 299

Comments

Elevations based on 3 wire from NGS point V 45

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650011A	Date Monumented 8/26/1998	Monumented By AHTD	County SEBASTIAN	Route 10	Job Number: 040246
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Vertical Determined By:</td> <td colspan="2">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>10 50.7983520</td> </tr> <tr> <td>Longitude</td> <td>94</td> <td>6 37.6249032</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>161.615</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-30.178</td> <td></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	35	10 50.7983520	Longitude	94	6 37.6249032	Ellipsoid Height (M):	161.615		Geoid Height (M):	-30.178	
Vertical Determined By:	LEVEL - Unkown Quality																						
Elevation Datum:	NAVD 88																						
Geoid Datum:																							
Latitude	35		10 50.7983520																				
Longitude	94		6 37.6249032																				
Ellipsoid Height (M):	161.615																						
Geoid Height (M):	-30.178																						
Horizontal Datum NAD 83 (1997)																							
Northing (M)	96,076.7111																						
Easting (M)	207,787.7350																						
Elevation (M)*	191.815																						
Northing (SFT)	315,211.6763																						
Easting (SFT)	681,716.9272																						
Elevation (SFT)*	629.313																						

Convergence Angle	-1	13	41.0513063
Scale Factor	0.999960576		
Elevation Adjust. Factor	0.9999698989		
Combined Adjust. Factor	0.9999304761		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 252, LOCATED ABOUT 14.50 KM (9.00 MI) EAST OF GREENWOOD, GO WEST ON STATE HIGHWAY 10 FOR 0.97 KM (0.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.33 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10, 0.91 METERS SOUTH OF A BARBED WIRE FENCE AND 0.77 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650011A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks											
Description		Azimuth	Distance								
			Meters	Feet							
MK # 1	CROSS TIE IN LINE BRACE POST	274	15.15	49.7	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">AZ Mark Station</td> <td>650011</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>98 05 11.483023</td> </tr> <tr> <td>Grid Azimuth</td> <td>99 18 52.485469</td> </tr> </table>	AZ Mark Station	650011	Geodetic Azimuth	98 05 11.483023	Grid Azimuth	99 18 52.485469
AZ Mark Station	650011										
Geodetic Azimuth	98 05 11.483023										
Grid Azimuth	99 18 52.485469										
MK # 2											
MK # 3											

Area Reference Monuments (used for Processing)	Comments						
<table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>AHTD FS2</td> </tr> <tr> <td>Ref Mon # 2</td> <td>OZARPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>Q 299</td> </tr> </table>	Ref Mon # 1	AHTD FS2	Ref Mon # 2	OZARPORT	Ref Mon # 3	Q 299	Elevations based on 3 wire from NGS point V 45
Ref Mon # 1	AHTD FS2						
Ref Mon # 2	OZARPORT						
Ref Mon # 3	Q 299						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650012	Date Monumented 8/26/1998	Monumented By AHTD	County SEBASTIAN	Route 10	Job Number: 040246
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 95,353.0791		Latitude 35 10 31.6925472
Easting (M) 214,178.9710		Longitude 94 2 24.4778100
Elevation (M)* 181.267		Ellipsoid Height (M): 151.158
		Geoid Height (M): -30.097

Northing (SFT) 312,837.5603		
Easting (SFT) 702,685.5074		
Elevation (SFT)* 594.707		

Convergence Angle -1 11 13.7452335		
Scale Factor 0.999961228		
Elevation Adjust. Factor 0.9999715541		
Combined Adjust. Factor 0.9999327832		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	263	38.85	127.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD FS2 Ref Mon # 2 OZARPORT Ref Mon # 3 Q 299	Elevations based on 3 wire from NGS point V 45

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650012A	Date Monumented 8/26/1998	Monumented By AHTD	County SEBASTIAN	Route 10	Job Number: 040246
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 95,435.4461		Latitude 35 10 34.1263200
Easting (M) 213,824.6090		Longitude 94 2 38.5473336
Elevation (M)* 171.953		Ellipsoid Height (M): 141.816
		Geoid Height (M): -30.101

Northing (SFT) 313,107.7927		Location Description
Easting (SFT) 701,522.9047		<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 252, LOCATED ABOUT 14.50 KM (9.00 MI) EAST OF GREENWOOD, GO EAST ON STATE HIGHWAY 10 FOR 5.47 KM (3.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.73 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.53 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650012A 1998" SET ON TOP OF AND IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Elevation (SFT)* 564.149		
Convergence Angle -1 11 21.9322771		
Scale Factor 0.999961144		
Elevation Adjust. Factor 0.9999730157		
Combined Adjust. Factor 0.9999341607		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHISELED "X" IN CONCRETE GUARD RAIL POST	98	8.37	27.5
MK # 2	CHISELED "X" IN CONCRETE GUARD RAIL POST	145	1.11	3.6
MK # 3	CHISELED "X" IN CONCRETE GUARD RAIL POST	265	5.05	16.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD FS2	Elevations based on 3 wire from NGS point V 45
Ref Mon # 2 OZARPORT	
Ref Mon # 3 Q 299	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650013	Date Monumented 11/30/2001	Monumented By AHTD	County SEBASTIAN	Route 45	Job Number: 040344
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,232.0562	
Easting (M)	179,817.0160	
Elevation (M)*		
Northing (SFT)	335,406.3377	
Easting (SFT)	589,949.6600	
Elevation (SFT)*		

Convergence Angle	-1	24	27.6378889
Scale Factor	0.999954886		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL FENCE POST	146	4.90	16.1
MK # 2	METAL FENCE POST	4	4.38	14.4
MK # 3	TELEPHONE POLE	160	18.45	60.5

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>Q 299</td> </tr> <tr> <td>Ref Mon # 2</td> <td>L 298</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD FS 2</td> </tr> </table>	Ref Mon # 1	Q 299	Ref Mon # 2	L 298	Ref Mon # 3	AHTD FS 2	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	Q 299							
Ref Mon # 2	L 298							
Ref Mon # 3	AHTD FS 2							
Comments								

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 13 49.6118784
Longitude	94 25 8.7909996
Ellipsoid Height (M):	135.535
Geoid Height (M):	-30.511

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 45 IN HACKETT, GO NORTH ON STATE HIGHWAY 45 FOR 5.31 KM (3.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 29.85 METERS SOUTH OF THE CENTER OF A PAVED FIELD ENTRANCE, 9.24 METERS EAST OF THE CENTER OF STATE HIGHWAY 45, AND 0.78 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "650013 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 648.542 METERS.

AZ Mark Station	650013A
Geodetic Azimuth	350 19 34
Grid Azimuth	351 44 02

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650013A	Date Monumented 11/30/2001	Monumented By AHTD	County SEBASTIAN	Route 45	Job Number: 040344
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,873.8191	
Easting (M)	179,723.7800	
Elevation (M)*		
Northing (SFT)	337,511.8548	
Easting (SFT)	589,643.7682	
Elevation (SFT)*		

Convergence Angle	-1	24	30.1459030
Scale Factor	0.999954274		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	350	13.70	44.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Q 299	
Ref Mon # 2 L 298	
Ref Mon # 3 AHTD FS 2	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 14 10.3564716
Longitude	94 25 13.1010492
Ellipsoid Height (M):	127.642
Geoid Height (M):	-30.495

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 45 IN HACKETT, GO NORTH ON STATE HIGHWAY 45 FOR 5.95 KM (3.70 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.15 METERS EAST OF THE CENTER OF STATE HIGHWAY 45 AND 1.05 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "650013A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 648.542 METERS.</p>

AZ Mark Station	650013
Geodetic Azimuth	170 19 32
Grid Azimuth	171 44 02

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650014	Date Monumented 11/30/2001	Monumented By AHTD	County SEBASTIAN	Route 45	Job Number: 040344
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	100,255.2291	
Easting (M)	180,686.8070	
Elevation (M)*		
Northing (SFT)	328,920.6975	
Easting (SFT)	592,803.2993	
Elevation (SFT)*		

Convergence Angle	-1	24	6.5142181
Scale Factor	0.999956819		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	METAL CHAIN LINK FENCE POST	32	4.15	13.6	
MK # 2	NORTH CORNER CARL MILLER GRAVE STON	298	5.00	16.4	
MK # 3	SOUTH CORNER WASH PIGG GRAVE STON	226	4.70	15.4	

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 Q 299</p> <p>Ref Mon # 2 L 298</p> <p>Ref Mon # 3 AHTD FS 2</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 12 46.1749500

Longitude 94 24 32.4897408

Ellipsoid Height (M): 162.716

Geoid Height (M): -30.553

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 45 IN HACKETT, GO NORTH ON STATE HIGHWAY 45 FOR 2.38 KM (1.48 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.85 METERS WEST OF THE CENTER OF STATE HIGHWAY 45, 11.00 METERS SOUTH OF THE CENTER OF THE NORTHERN MOST PAVED ENTRANCE TO MOUNTAIN VIEW CEMETERY, AND 0.92 METERS WEST OF A WITNESS POST, OUTSIDE THE CHAINLINK FENCE. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "650014 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650015	Date Monumented 9/24/2002	Monumented By AHTD	County SEBASTIAN	Route 252	Job Number: 040111
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	85,463.7680	
Easting (M)	193,288.8890	
Elevation (M)*		
Northing (SFT)	280,392.3788	
Easting (SFT)	634,148.6300	
Elevation (SFT)*		

Convergence Angle	-1	19	8.8046467
Scale Factor	0.999974067		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END REINFORCED CONCRETE PIPE	339	4.40	14.4
MK # 2	CABLE POLE	82	18.65	61.2
MK # 3	MAN HOLE COVER	264	19.15	62.8

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>Q 299</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD FS 2</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SALISAW 1</td> </tr> </table>	Ref Mon # 1	Q 299	Ref Mon # 2	AHTD FS 2	Ref Mon # 3	SALISAW 1	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	Q 299						
Ref Mon # 2	AHTD FS 2						
Ref Mon # 3	SALISAW 1						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 4 56.0341704
Longitude	94 16 0.8725944
Ellipsoid Height (M):	151.982
Geoid Height (M):	-30.664

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 252 IN HUNTINGTON, GO WEST ON STATE HIGHWAY 252 FOR 0.20 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.90 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 252, 7.00 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "650015 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	650015A
Geodetic Azimuth	89 12 36
Grid Azimuth	90 31 45

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650015A	Date Monumented 9/24/2002	Monumented By AHTD	County SEBASTIAN	Route N/A	Job Number: 040111
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	85,459.1001	
Easting (M)	193,794.3510	
Elevation (M)*		
Northing (SFT)	280,377.0642	
Easting (SFT)	635,806.9666	
Elevation (SFT)*		

Convergence Angle	-1	18	57.1942187
Scale Factor	0.999974058		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	281	20.50	67.3
MK # 2	CHAIN LINK CORNER POST	357	8.20	26.9
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 Q 299 Ref Mon # 2 AHTD FS 2 Ref Mon # 3 SALISAW 1	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> Comments
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Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 4 56.2598688

Longitude 94 15 40.9199472

Ellipsoid Height (M): 165.522

Geoid Height (M): -30.655

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71, STATE HIGHWAY 252, AND BROADWAY STREET IN HUNTINGTON, GO EAST ON BROADWAY STREET FOR 0.11 MILES TO THE STATION ON THE LEFT. THE STATION IS 7.60 METERS NORTH OF THE CENTER OF EAST BROADWAY STREET AND 8.00 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "650015A 2002" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650016	Date Monumented 10/12/2004	Monumented By AHTD	County SEBASTIAN	Route 22	Job Number: 040439,040458,040716,040748
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	112,454.9458	0.0020
Easting (M)	190,859.3927	0.0020
Elevation (M)*	146.802	

Northing (SFT)	368,945.9347	
Easting (SFT)	626,177.8575	
Elevation (SFT)*	481.633	

Convergence Angle	-1	20	19.0821646
Scale Factor	0.999946118		
Elevation Adjust. Factor	0.9999769625		
Combined Adjust. Factor	0.9999230818		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	19	29.8356204
Longitude	94	18	1.6457400
Ellipsoid Height:	116.731		
Grid Northing (Meters)	112,454.9490		
Grid Easting (Meters)	190,859.3810		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 22, IN BARLING, GO EAST ON STATE HIGHWAY 22 0.1 MILES TO THE STATION MARK ON THE LEFT, 10.7 METERS WEST OF AN ASPH. DRIVE TURN IN, AND NORTHEAST 9.3 METERS OF THE HIGHWAY AND SOUTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650016 2004" ON TOP OF A 1.00 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	113	13.10	43.0
MK # 2	SOUTHEAST CORNER OF BLOCK BLDG	323	17.80	58.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARFY (650006)	PREVIOUS ELEV. (146.8373m) 3-wire levels were ran from NGS B257, M297, and L297 in Job 040439 by S5103 in Jan 2006 *****NEW ELEV. BY S5111 & S5112 IN FEB. 2017 FOR JOB #040373 USING DIGITAL LEVELS & RUNNING THRU AHTD/NGS 1ST ORDER BM'S R 342, S 342, T 342, KIT CARS & A CARTER & NGS 1ST ORDER BM B 257
Ref Mon # 2: ARHR (650007)	
Ref Mon # 3: OKHV (AHTD FS 2)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650016A	Date Monumented 10/12/2004	Monumented By AHTD	County SEBASTIAN	Route 22	Job Number: 040487,040457,040458,040716
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	112,162.1798	0.0020	
Easting (M)	191,313.9876	0.0020	
Elevation (M)*	129.952		

Northing (SFT)	367,985.4182		
Easting (SFT)	627,669.3077		
Elevation (SFT)*	426.350		

Convergence Angle	-1	20	8.4538129
Scale Factor	0.999946318		
Elevation Adjust. Factor	0.9999796068		
Combined Adjust. Factor	0.9999259259		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	19	20.6824764
Longitude	94	17	43.3805280
Ellipsoid Height:	99.888		
Grid Northing (Meters)	112,162.1901		
Grid Easting (Meters)	191,313.9830		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	132	6.35	20.8
MK # 2	TELEPHONE RISER	113	8.70	28.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARFY (650006)	PREVIOUS ELEV. (129.9662m) 3-wire levels were ran from NGS B257, M297, and L297 in Job 040439 by S5103 in Jan 2006 *****NEW ELEV. BY S5111 & S5112 IN FEB. 2017 FOR JOB #040373 USING DIGITAL LEVELS & RUNNING THRU AHTD/NGS 1ST ORDER BM'S R 342, S 342, T 342, KIT CARS & A CARTER & NGS 1ST ORDER BM B 257
Ref Mon # 2: ARHR (650007)	
Ref Mon # 3: OKHV (AHTD FS 2)	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650017	Date Monumented 10/12/2004	Monumented By AHTD	County SEBASTIAN	Route 22	Job Number: 040439,040487
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	111,766.9911	
Easting (M)	196,086.7840	
Elevation (M)*	144.134	
Northing (SFT)	366,688.8700	
Easting (SFT)	643,328.0572	
Elevation (SFT)*	472.879	

Convergence Angle	-1	18	18.3121864
Scale Factor	0.999946523		
Elevation Adjust. Factor	0.9999773812		
Combined Adjust. Factor	0.9999239054		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	94	23.90	78.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 650006	3-wire levels were ran from NGS B257, M297, and L297 in Job 040439 by S5103 in Jan 2006
Ref Mon # 2 650007	
Ref Mon # 3 AHTD FS 2	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 19 11.4305664
Longitude	94 14 34.1007504
Ellipsoid Height (M):	114.094
Geoid Height (M):	-30.012

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 22, IN CENTRAL CITY, GO EAST ON STATE HIGHWAY 22 0.55 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 12.8 METERS OF THE HIGHWAY AND NORTH 5.8 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650017 2004" ON TOP OF A 1.00 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	650017A
Geodetic Azimuth	271 00 10
Grid Azimuth	272 18 28

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650017A	Date Monumented 10/12/2004	Monumented By AHTD	County SEBASTIAN	Route 22	Job Number: 040439
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	111,781.2191		
Easting (M)	195,733.7570		
Elevation (M)*	140.918		
Northing (SFT)	366,735.5497		
Easting (SFT)	642,169.8344		
Elevation (SFT)*	462.328		

Convergence Angle	-1	18	26.4508496
Scale Factor	0.999946518		
Elevation Adjust. Factor	0.9999778859		
Combined Adjust. Factor	0.9999244050		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 650006 Ref Mon # 2 650007 Ref Mon # 3 AHTD FS 2	3-wire levels were ran from NGS B257, M297, and L297 in Job 040439 by S5103 in Jan 2006

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 19 11.6310000
Longitude	94 14 48.0871320
Ellipsoid Height (M):	110.881
Geoid Height (M):	-30.017

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 22, IN CENTRAL CITY, GO EAST ON STATE HIGHWAY 22 0.3 MILES TO THE STATION MARK ON THE LEFT, NORTH 15.5 METERS OF THE HIGHWAY AND SOUTH 2.85 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650017A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650018	Date Monumented 11/16/2005	Monumented By AHTD	County SEBASTIAN	Route 10	Job Number: 040443
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	96,005.7682	
Easting (M)	208,214.4140	
Elevation (M)*	183.228	
Northing (SFT)	314,978.9245	
Easting (SFT)	683,116.7899	
Elevation (SFT)*	601.141	

Convergence Angle	-1	13	31.2054181
Scale Factor	0.999960644		
Elevation Adjust. Factor	0.9999712464		
Combined Adjust. Factor	0.9999318915		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CROSS TIE POST	131	2.60	8.5
MK # 2	WOODEN CROSS TIE POST	185	1.50	4.9
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEVATION OBTAINED BY 3 WIRE LEVEL 5/3/2005 BY CREW S5102 USING 650011A AS A BENCH MARK.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650019	Date Monumented 3/15/2011	Monumented By AHTD	County Sebastian	Route CR 35	Job Number: BR6506
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<table style="width: 100%;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas South</td> <td></td> </tr> <tr> <td colspan="2">Horizontal Datum</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td>Northing (M)</td> <td>#Error</td> </tr> <tr> <td>Easting (M)</td> <td>#Error</td> </tr> <tr> <td>Elevation (M)*</td> <td></td> </tr> <tr> <td>Northing (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Easting (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Elevation (SFT)*</td> <td></td> </tr> </table> <table style="width: 100%;"> <tr> <td style="width: 50%;">Convergence Angle</td> <td>###/###</td> <td>#Error</td> </tr> <tr> <td>Scale Factor</td> <td></td> <td>#Error</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td></td> <td></td> </tr> <tr> <td>Combined Adjust. Factor</td> <td></td> <td>#Type!</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;">SUPERCEDED CONTROL</div> <table style="width: 100%;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas South		Horizontal Datum				Northing (M)	#Error	Easting (M)	#Error	Elevation (M)*		Northing (SFT)	#Type!	Easting (SFT)	#Type!	Elevation (SFT)*		Convergence Angle	###/###	#Error	Scale Factor		#Error	Elevation Adjust. Factor			Combined Adjust. Factor		#Type!	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table style="width: 100%;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td style="width: 40%;"></td> </tr> <tr> <td>Elevation Datum:</td> <td></td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center;">Location Description</p> <p>To reach the station from the intersection of Highway 252 and Highway 71 in Sebastian County, north of Huntington, go north on Highway 71 for 0.3 miles to CR 35 (School House Rd), turn left (west) for 1.3 miles to the station on the left, 1.5 feet north of a witness post and 26 feet south of the centerline of CR 35. The station mark is a standard 2 1/2" cap stamped "650019 2011" and set on top of a 4 foot long rebar driven 0.2 feet below ground level.</p> </div>	Vertical Determined By:		Elevation Datum:		Geoid Datum:		Latitude		Longitude		Ellipsoid Height (M):		Geoid Height (M):	
Zone	Zone Code																																																										
Arkansas South																																																											
Horizontal Datum																																																											
Northing (M)	#Error																																																										
Easting (M)	#Error																																																										
Elevation (M)*																																																											
Northing (SFT)	#Type!																																																										
Easting (SFT)	#Type!																																																										
Elevation (SFT)*																																																											
Convergence Angle	###/###	#Error																																																									
Scale Factor		#Error																																																									
Elevation Adjust. Factor																																																											
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Latitude																																																											
Longitude																																																											
Ellipsoid Height (M):																																																											
Geoid Height (M):																																																											

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Water meter		248	8.23	27.0
MK # 2	Power pole with guy		103	10.06	33.0
MK # 3	NE corner of mobile home		194	24.84	81.5

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 SAL5</p> <p>Ref Mon # 2 OKHV</p> <p>Ref Mon # 3 A 299, 650015A</p>	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px; vertical-align: top;">Digital levels were run from A 299 by crew S5102 during job BR6506</td> </tr> </table>	Comments	Digital levels were run from A 299 by crew S5102 during job BR6506
Comments			
Digital levels were run from A 299 by crew S5102 during job BR6506			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650019A	Date Monumented 3/15/2011	Monumented By AHTD	County Sebastian	Route CR 35	Job Number: BR6506
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	88,571.2041	
Easting (M)	192,125.3610	
Elevation (M)*	175.650	
Northing (SFT)	290,587.3588	
Easting (SFT)	630,331.2885	
Elevation (SFT)*	576.280	

Convergence Angle	-1	19	37.1780871
Scale Factor	0.999969971		
Elevation Adjust. Factor	0.9999724355		
Combined Adjust. Factor	0.9999424073		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18" RCP culvert	267	41.45	136.0
MK # 2	Left Fence Corner	234	25.60	84.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: SAL5	Digital levels were run from A 299 by crew S5102 during job BR6506
Ref Mon # 2: OKHV	
Ref Mon # 3: A 299, 650015A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650020	Date Monumented 3/12/2012	Monumented By AHTD	County SEBASTIAN	Route 96	Job Number: 040625
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	111,366.2050	
Easting (M)	200,264.6753	
Elevation (M)*	123.802	
Northing (SFT)	365,373.9576	
Easting (SFT)	657,035.0222	
Elevation (SFT)*	406.173	

Convergence Angle	-1	16	41.8767485
Scale Factor	0.999946745		
Elevation Adjust. Factor	0.9999805718		
Combined Adjust. Factor	0.9999273179		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	COMBINATION POLE	262	23.16	76.0	650020A
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	VERTICAL CONTROL WAS ESTABLISHED BY CREW S5112 ON JULY 31, BY DIGITAL THREE WIRE LEVELS FROM NGS BENCHMARK T 256. (*NOTE: DIGITAL LEVEL ELEVATION TO THIS MONUMENT WAS USED IN THE FINAL STATIC ADJUSTMENT.)
Ref Mon # 2 ARRS	
Ref Mon # 3 OKHV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650020A	Date Monumented 3/12/2012	Monumented By AHTD	County SEBASTIAN	Route 96	Job Number: 040625,C56008
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	111,863.8374	
Easting (M)	200,631.9629	
Elevation (M)*	125.920	
Northing (SFT)	367,006.6065	
Easting (SFT)	658,240.0316	
Elevation (SFT)*	413.124	

Convergence Angle	-1	16	33.6725881
Scale Factor	0.999946380		
Elevation Adjust. Factor	0.9999802394		
Combined Adjust. Factor	0.9999266204		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	VERTICAL CONTROL WAS ESTABLISHED BY CREW S5112 ON JULY 31, BY DIGITAL THREE WIRE LEVELS FROM NGS BENCHMARK T 256. (*NOTE: DIGITAL LEVEL ELEVATION TO THIS MONUMENT WAS USED IN THE FINAL STATIC ADJUSTMENT.)
Ref Mon # 2 ARRS	
Ref Mon # 3 OKHV	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 09
Latitude	35 19 17.8942656
Longitude	94 11 34.2764592
Ellipsoid Height (M):	95.900
Geoid Height (M):	-30.021

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 22 AND STATE HIGHWAY 96, SOUTHWEST OF LAVACA, GO NORTH ON STATE HIGHWAY 96 0.7 MILES TO THE MARK ON THE LEFT, WEST 17.4 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650020A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

AZ Mark Station	650020
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650021	Date Monumented 3/12/2012	Monumented By AHTD	County SEBASTIAN	Route 96	Job Number: 040625
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	119,544.3672	0.0020			
Easting (M)	207,568.4523	0.0020			
Elevation (M)*	118.149				

Northing (SFT)	392,205.1447				
Easting (SFT)	680,997.4973				
Elevation (SFT)*	387.627				

Convergence Angle	-1	13	57.7047441		
Scale Factor	0.999941521				
Elevation Adjust. Factor	0.9999814589				
Combined Adjust. Factor	0.9999229810				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (1997)				
Latitude	35	23	31.9927632		
Longitude	94	7	6.2475672		
Ellipsoid Height:	88.387				
Grid Northing (Meters)	119,544.3649				
Grid Easting (Meters)	207,568.3626				

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252 AND STATE HIGHWAY 96, NORTHEAST OF LAVACA, GO SOUTH ON STATE HIGHWAY 96 0.3 MILES TO THE MARK ON THE RIGHT, WEST 47.2 FEET OF THE CENTERLINE OF THE HIGHWAY AND 2 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650021 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	POWER POLE		7	22.56	74.0
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY, (ARFY)</p> <p>Ref Mon # 2 ARLR, (ARRS)</p> <p>Ref Mon # 3 OKHV, (OKHV)</p>	<p style="text-align: center;">Comments</p> <p>NEW STATIC WAS PERFORMED ON THIS POINT IN JAN. & FEB. 2016 AFTER THE DISCOVERY WAS MADE THAT IT HAD BEEN PHYSICALLY RELOCATED AND NEW DIGITAL LEVELS WERE RAN TO IT FROM POINT NUMBER 4.</p> <p>*****SUPERCEDED ELEV. *****</p> <p>(387.434') VERTICAL CONTROL WAS ESTABLISHED BY CREW S5112 ON JULY 31, 2012 BY DIGITAL THREE WIRE LEVELS FROM NGS</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650021A	Date Monumented 3/12/2012	Monumented By AHTD	County SEBASTIAN	Route 252	Job Number: 040625
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	120,130.4617	
Easting (M)	207,660.7585	
Elevation (M)*	123.747	
Northing (SFT)	394,128.0231	
Easting (SFT)	681,300.3385	
Elevation (SFT)*	405.992	

Convergence Angle	-1	13	55.8673333
Scale Factor	0.999941217		
Elevation Adjust. Factor	0.9999805805		
Combined Adjust. Factor	0.9999217986		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252 AND STATE HIGHWAY 96, NORTHEAST OF LAVACA, GO EAST ON STATE HIGHWAY 252 0.15 MILES TO THE MARK ON THE RIGHT, SOUTH 37.8 FEET OF THE CENTERLINE OF THE HIGHWAY AND 95.5 FEET WEST OF A DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650021A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
650021					650021
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 ARRS Ref Mon # 3 OKHV	VERTICAL CONTROL WAS ESTABLISHED BY CREW S5112 ON JULY 31, 2012 BY DIGITAL THREE WIRE LEVELS FROM NGS BENCHMARK U 295 AND J 256. (*NOTE: DIGITAL LEVEL ELEVATION TO THIS MONUMENT WAS USED IN THE FINAL STATIC ADJUSTMENT.)

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650022	Date Monumented 11/13/2012	Monumented By AHTD	County SEBASTIAN	Route 22	Job Number: BB0407
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	116,311.5654	
Easting (M)	185,264.8569	
Elevation (M)*	163.118	
Northing (SFT)	381,598.8608	
Easting (SFT)	607,823.1180	
Elevation (SFT)*	535.165	

Convergence Angle	-1	22	30.0765933
Scale Factor	0.999943653		
Elevation Adjust. Factor	0.9999744020		
Combined Adjust. Factor	0.9999180565		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SIGNAL LIGHT POLE	327	8.14	26.7
MK # 2	CONC R/W MKR	266	13.41	44.0
MK # 3	LIGHT POLE	113	21.15	69.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 OKHV Ref Mon # 3 ARRS	ELEV. ESTABLISHED IN NOV. 2012 BY S5112 FROM NGS 1ST ORDER BM "R 297" USING DIGITAL LEVELS. **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL STATIC ADJUSTMENT.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	35 21 30.6481248
Longitude	94 21 46.7606304
Ellipsoid Height (M):	133.085
Geoid Height (M):	-30.033

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 22 (ROGERS AVE) AND I 540, EAST OF FORT SMITH, GO EAST ON HIGHWAY 22 0.10 MILES TO THE STATION MARK ON THE RIGHT, WEST 32.5 FEET OF THE CENTERLINE OF A CONC DRIVE, AND 22.6 FEET SOUTH OF THE BACK OF THE CURB FOR HIGHWAY 22. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650022 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	650022A
Geodetic Azimuth	
Grid Azimuth	

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650022-1	Date Monumented 12/15/2014	Monumented By AHTD	County SEBASTIAN	Route CR 181	Job Number: BR6508
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	104,987.4923	0.0030			
Easting (M)	180,584.1997	0.0030			
Elevation (M)*					

Northing (SFT)	344,446.4643				
Easting (SFT)	592,466.6618				
Elevation (SFT)*					

Convergence Angle	-1	24	11.5406137		
Scale Factor	0.999952304				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	FENCE CORNER	254		63.50	208.3
MK # 2	GUT POLE W/3 GUYS	206		21.90	71.9
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 ARHR Ref Mon # 3 SAL5	

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	Geoid 12A
Latitude	35 15 19.6095096
Longitude	94 24 41.1276564
Ellipsoid Height (M):	122.124 0.0070
Geoid Height (M):	-30.542 0.0070

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 253 AND STATE HIGHWAY 45, SOUTH OF FORT SMITH, GO NORTH ON HIGHWAY 45 FOR 1.0 MILE TO WHITE BLUFF ROAD AND TURN RIGHT (SOUTH) AND GO 0.85 MILES TO MARK ON LEFT, 33.6 FEET EAST OF THE CENTERLINE OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2014 650022" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650022A	Date Monumented 11/13/2012	Monumented By AHTD	County SEBASTIAN	Route 22	Job Number: BB0407
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	116,599.6806	
Easting (M)	184,809.7242	
Elevation (M)*	153.182	
Northing (SFT)	382,544.1188	
Easting (SFT)	606,329.9035	
Elevation (SFT)*	502.566	

Convergence Angle	-1	22	40.7239787
Scale Factor	0.999943484		
Elevation Adjust. Factor	0.9999759613		
Combined Adjust. Factor	0.9999194466		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MANHOLE COVER	237	3.72	12.2
MK # 2	COMBINATION POLE W/LIGHT	277	17.50	57.4
MK # 3	SOUTHWEST CORNER OF A BRICK BLDING	248	12.28	40.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 OKHV Ref Mon # 3 ARRS	ELEV. ESTABLISHED IN NOV. 2012 BY S5112 FROM NGS 1ST ORDER BM "R 297" USING DIGITAL LEVELS. **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL STATIC ADJUSTMENT.

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 22 (ROGERS AVE) AND I 540, EAST OF FORT SMITH, GO WEST ON HIGHWAY 22 0.20 MILES TO THE STATION MARK ON THE RIGHT, EAST 116.3 FEET OF THE CENTERLINE OF SOUTH 58th STREET, AND 12.55 FEET NORTH OF THE BACK OF THE CURB FOR HIGHWAY 22. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650022A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	650022
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650022A-1	Date Monumented 12/15/2014	Monumented By AHTD	County SEBASTIAN	Route CR 181	Job Number: BR6508
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	105,577.2010 0.0030
Easting (M)	180,596.5779 0.0030
Elevation (M)*	

Northing (SFT)	346,381.2003	
Easting (SFT)	592,507.2727	
Elevation (SFT)*		

Convergence Angle	-1	24	11.5881874
Scale Factor	0.999951779		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 253 AND STATE HIGHWAY 45, SOUTH OF FORT SMITH, GO NORTH ON HIGHWAY 45 FOR 1.0 MILE TO WHITE BLUFF ROAD AND TURN RIGHT (SOUTH) AND GO 0.45 MILES TO MARK ON RIGHT, 36 FEET WEST OF THE CENTERLINE OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2014 650022A" ON TOP OF A 3 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/TELEPHONE BOX	72	14.30	46.9
MK # 2	FENCE CORNER	259	2.50	8.2
MK # 3	SERVICE POLE	327	117.00	383.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 ARHR Ref Mon # 3 SAL5	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650023	Date Monumented 11/13/2012	Monumented By AHTD	County SEBASTIAN	Route GRAND	Job Number: BB0407
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	119,252.7108	
Easting (M)	185,114.4689	
Elevation (M)*		
Northing (SFT)	391,248.2687	
Easting (SFT)	607,329.7200	
Elevation (SFT)*		

Convergence Angle	-1	22	35.1704593
Scale Factor	0.999941950		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	245	3.54	11.6
MK # 2	LIGHT POLE	95	17.98	59.0
MK # 3	SIGNAL BOX	93	19.20	63.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 OKHV Ref Mon # 3 ARRS	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	
Geoid Datum:	Geoid 96
Latitude	35 23 5.9426340
Longitude	94 21 55.5144948
Ellipsoid Height (M):	106.706
Geoid Height (M):	-29.949

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF GRAND AVE AND I 540, NORTHEAST OF FORT SMITH, GO WEST ON GRAND AVE 0.05 MILES TO THE STATION MARK ON THE LEFT, SOUTH 8.3 FEET OF THE BACK OF THE CURB FOR GRAND AVE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650023 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650023A	Date Monumented 11/13/2012	Monumented By AHTD	County SEBASTIAN	Route GRAND	Job Number: BB0407
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	119,251.1771	
Easting (M)	185,623.5594	
Elevation (M)*		
Northing (SFT)	391,243.2369	
Easting (SFT)	608,999.9611	
Elevation (SFT)*		

Convergence Angle	-1	22	23.4346972
Scale Factor	0.999941944		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE	23	6.04	19.8	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	
Ref Mon # 2 OKHV	
Ref Mon # 3 ARRS	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	
Geoid Datum:	Geoid 96
Latitude	35 23 6.2892348
Longitude	94 21 35.3464596
Ellipsoid Height (M):	93.470
Geoid Height (M):	-29.943

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF GRAND AVE AND I 540, NORTHEAST OF FORT SMITH, GO EAST ON GRAND AVE 0.25 MILES TO THE STATION MARK ON THE LEFT, NORTH 16.5 FEET OF THE CENTERLINE OF GRAND AVE, 13.2 FEET EAST OF THE EAST END OF A BRIDGE AND 65 FEET WEST OF THE CENTERLINE OF A GRAVEL DRIVE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650023A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650024	Date Monumented 11/13/2012	Monumented By AHTD	County SEBASTIAN	Route LLY RO.	Job Number: BB0407
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	121,782.9910	
Easting (M)	185,886.9092	
Elevation (M)*		
Northing (SFT)	399,549.6963	
Easting (SFT)	609,863.9679	
Elevation (SFT)*		

Convergence Angle	-1	22	18.7619122
Scale Factor	0.999940644		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF I 540 AND KELLY HIGHWAY, NORTHEAST OF FORT SMITH, GO EAST ON KELLY HIGHWAY 0.1 MILES TO A DIRT FIELD ROAD WITH A GATE ON THE LEFT, TURN LEFT HERE AND GO 0.4 MILES TO A CROSS ROAD AND TURN LEFT AND GO 0.5 MILES TO THE MARK ON THE RIGHT, 15.8 FEET EAST OF THE CENTERLINE OF THE ROAD AND 132.3 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650024 2012" ON TOP OF A 4 FOOT REBAR DRIVEN 0.5 FEET BELOW THE SURFACE OF THE GROUND. THE LAND OWNER IS BILLY WARD 479-650-0921. HE GAVE US PERMISSION ON 11-8-12 AT 1:27pm WHILE ON THE SITE.</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	36 INCH COTTONWOOD	175	76.05	249.5	650024A
MK # 2	36 INCH COTTONWOOD	222	71.41	234.3	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 OKHV Ref Mon # 3 ARRS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650024A	Date Monumented 11/13/2012	Monumented By AHTD	County SEBASTIAN	Route LLY RO.	Job Number: BB0407
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum:
Northing (M) 122,439.9571		Geoid Datum: Geoid 96
Easting (M) 185,771.3032		Latitude 35 24 49.8489408
Elevation (M)* 		Longitude 94 21 32.5208304
Northing (SFT) 401,705.0926		Ellipsoid Height (M): 92.219
Easting (SFT) 609,484.6839		Geoid Height (M): -29.842
Elevation (SFT)* 		

Convergence Angle -1 22 21.7904661	Scale Factor 0.999940334
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
<p>TO REACH THE STATION MARK FROM I 540 AND KELLY HIGHWAY, NORTHEAST OF FORT SMITH, GO NORTH ON I 540 0.8 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST 73.0 FEET OF THE EDGE OF THE CONC. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650024A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks			
Description	Azimuth	Distance	
		Meters Feet	
MK # 1			AZ Mark Station 650024
MK # 2			Geodetic Azimuth
MK # 3			Grid Azimuth

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY</p> <p>Ref Mon # 2 OKHV</p> <p>Ref Mon # 3 ARRS</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650025	Date Monumented 3/2/2017	Monumented By AHTD	County SEBASTIAN	Route 255	Job Number: 040373, 040716
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	112,432.0300 0.0020
Easting (M)	187,047.9747 0.0020
Elevation (M)*	131.924
Northing (SFT)	368,870.7518
Easting (SFT)	613,673.2303
Elevation (SFT)*	432.821

Convergence Angle	-1	21	46.8606367
Scale Factor	0.999946198		
Elevation Adjust. Factor	0.9999792972		
Combined Adjust. Factor	0.9999254963		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 45, SOUTH OF FORT SMITH, GO SOUTH ON HIGHWAY 255 2.55 MILES TO THE MARK ON THE RIGHT, SOUTH 29.6' OF THE CENTERLINE OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650025" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	132	25.18	82.6
MK # 2	SS MAN HOLE	124	20.12	66.0
MK # 3				

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARFY	ELEV. BY S5111 & S5112 IN FEB. 2017 FOR JOB #040373 USING DIGITAL LEVELS & RUNNING THRU AHTD/NGS 1ST ORDER BM'S R 342, S 342, T 342, KIT CARS & A CARTER & NGS 1ST ORDER BM B 257
Ref Mon # 2	ARHR	
Ref Mon # 3	OKHV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650025A	Date Monumented 3/8/2017	Monumented By AHTD	County SEBASTIAN	Route 255	Job Number: 040373, 040716
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	112,553.3375	0.0020			
Easting (M)	186,681.5199	0.0020			
Elevation (M)*	129.069				
Northing (SFT)	369,268.7414				
Easting (SFT)	612,470.9532				
Elevation (SFT)*	423.453				

Convergence Angle	-1	21	55.3679263		
Scale Factor	0.999946118				
Elevation Adjust. Factor	0.9999797453				
Combined Adjust. Factor	0.9999258644				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 45, SOUTH OF FORT SMITH, GO SOUTH ON HIGHWAY 255 2.3 MILES TO THE MARK ON THE LEFT, NORTH 35.5' OF THE CENTERLINE OF THE ROAD AND 18.3' EAST OF THE CENTERLINE OF A DRIVE WAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650025A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	FENCE CORNER	356		1.89	6.2
MK # 2	COMBINATION POLE W/GUY	103		17.07	56.0
MK # 3	GAS MARKER	300		17.53	57.5

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARFY	<p>ELEV. BY S5111 & S5112 IN FEB. 2017 FOR JOB #040373 USING DIGITAL LEVELS & RUNNING THRU AHTD/NGS 1ST ORDER BM'S R 342, S 342, T 342, KIT CARS & A CARTER & NGS 1ST ORDER BM B 257</p>
Ref Mon # 2	ARHR	
Ref Mon # 3	OKHV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650026	Date Monumented 6/14/2017	Monumented By AHTD	County SEBASTIAN	Route I 540	Job Number: 040713
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	107,689.1585	0.0020			
Easting (M)	183,786.7300	0.0020			
Elevation (M)*	167.954				
Northing (SFT)	353,310.1808				
Easting (SFT)	602,973.6300				
Elevation (SFT)*	551.030				

Convergence Angle	-1	22	59.3398554		
Scale Factor	0.999949907				
Elevation Adjust. Factor	0.9999736432				
Combined Adjust. Factor	0.9999235515				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE HIGHWAY 71, SOUTH OF FORT SMITH, GO SOUTH ON HIGHWAY 71 FOR 0.35 MILES TO THE MARK ON THE LEFT IN THE MEDIAN OF THE HIGHWAY, 163' SOUTH OF A DROP INLET, 29' FEET EAST OF THE C/L OF THE SOUTH BOUND LANE AND 37.3' WEST OF THE C/L OF THE NORTH BOUND LANE AND WEST 2' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650026" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY</p> <p>Ref Mon # 2 ARRV</p> <p>Ref Mon # 3 OKHV</p>	<p style="text-align: center;">Comments</p> <p>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JUNE 2017 FOR JOB #040713 FROM 1ST ORDER NGS BM'S J 298, L 342 & N 342. ELEV. FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650026A	Date Monumented 6/14/2017	Monumented By AHTD	County SEBASTIAN	Route I 540	Job Number: 040713
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	108,113.6546	0.0020			
Easting (M)	183,563.6415	0.0020			
Elevation (M)*	154.299				
Northing (SFT)	354,702.8818				
Easting (SFT)	602,241.7138				
Elevation (SFT)*	506.231				

Convergence Angle	-1	23	4.7117398
Scale Factor	0.999949562		
Elevation Adjust. Factor	0.9999757860		
Combined Adjust. Factor	0.9999253492		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE HIGHWAY 71, SOUTH OF FORT SMITH, GO SOUTH ON HIGHWAY 71 FOR 0.5 MILES TO THE MARK ON THE LEFT IN THE MEDIAN OF THE HIGHWAY, 82' SOUTH OF A DROP INLET, 28.5' FEET EAST OF THE C/L OF THE SOUTH BOUND LANE AND 38.5' WEST OF THE C/L OF THE NORTH BOUND LANE AND WEST 1.5' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650026A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY</p> <p>Ref Mon # 2 ARRV</p> <p>Ref Mon # 3 OKHV</p>	<p style="text-align: center;">Comments</p> <p>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JUNE 2017 FOR JOB #040713 FROM 1ST ORDER NGS BM'S J 298, L 342 & N 342. ELEV. FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650027	Date Monumented 6/14/2017	Monumented By AHTD	County SEBASTIAN	Route 45	Job Number: 040713
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	110,977.0921	0.0020			
Easting (M)	183,087.7324	0.0020			
Elevation (M)*	151.216				
Northing (SFT)	364,097.3430				
Easting (SFT)	600,680.3354				
Elevation (SFT)*	496.114				

Convergence Angle	-1	23	17.2654687		
Scale Factor	0.999947328				
Elevation Adjust. Factor	0.9999762699				
Combined Adjust. Factor	0.9999235991				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE HIGHWAY 71, SOUTH OF FORT SMITH, GO NORTH ON HIGHWAY 45 FOR 1.85 MILES TO THE MARK ON THE LEFT, 58' NORTH OF A CONC DRIVEWAY AND 26.5' FEET WEST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650027" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	WATER VALVE		263	3.81	12.5
MK # 2	COMBINATION POLE		323	32.92	108.0
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY</p> <p>Ref Mon # 2 ARRV</p> <p>Ref Mon # 3 OKHV</p>	<p style="text-align: center;">Comments</p> <p>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JUNE 2017 FOR JOB #040713 FROM 1ST ORDER NGS BM'S J 298, L 342 & N 342. ELEV. FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650027A	Date Monumented 6/14/2017	Monumented By AHTD	County SEBASTIAN	Route AYERS	Job Number: 040713
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	110,961.8679 0.0020
Easting (M)	182,694.2126 0.0020
Elevation (M)*	149.349
Northing (SFT)	364,047.3949
Easting (SFT)	599,389.2625
Elevation (SFT)*	489.989

Convergence Angle	-1	23	26.3193829
Scale Factor	0.999947346		
Elevation Adjust. Factor	0.9999765628		
Combined Adjust. Factor	0.9999239101		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SS MANHOLE	261	10.82	35.5
MK # 2	DROP INLET	321	12.58	41.3
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JUNE 2017 FOR JOB #040713 FROM 1ST ORDER NGS BM'S J 298, L 342 & N 342. ELEV. FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARRV	
Ref Mon # 3 OKHV	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12B
Latitude	35 18 35.0890920
Longitude	94 23 23.4144780
Ellipsoid Height (M):	119.011 0.0000
Geoid Height (M):	-30.338 0.0000

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE HIGHWAY 71, SOUTH OF FORT SMITH, GO NORTH ON HIGHWAY 45 FOR 1.85 MILES TO AYERS ROAD AND TURN LEFT (WEST) AND GO 0.2 MILES TO THE MARK ON THE RIGHT, 34' WEST OF THE C/L OF A CONC DRIVEWAY AND 24.5' FEET NORTH OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650027A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650028	Date Monumented 6/14/2017	Monumented By AHTD	County SEBASTIAN	Route 45	Job Number: 040713, 040889
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	112,119.1970	0.0020			
Easting (M)	182,953.0873	0.0020			
Elevation (M)*	152.727				
Northing (SFT)	367,844.3988				
Easting (SFT)	600,238.5873				
Elevation (SFT)*	501.073				

Convergence Angle	-1	23	21.0040570
Scale Factor	0.999946492		
Elevation Adjust. Factor	0.9999760327		
Combined Adjust. Factor	0.9999225260		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF A GATE	208	7.92	26.0
MK # 2	COMBINATION POLE	359	28.86	94.7
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JUNE 2017 FOR JOB #040713 FROM 1ST ORDER NGS BM'S J 298, L 342 & N 342. ELEV. FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARRV	
Ref Mon # 3 OKHV	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12B
Latitude	35 19 12.8369460
Longitude	94 23 14.2800324
Ellipsoid Height (M):	122.429 0.0000
Geoid Height (M):	-30.298 0.0000

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 45, SOUTH OF FORT SMITH, GO SOUTH ON HIGHWAY 45 FOR 0.45 MILES TO THE MARK ON THE RIGHT, 26' NORTH OF THE C/L OF A DRIVEWAY, WEST 26.5 FEET OF THE C/L OF THE HIGHWAY AND 7' EAST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650028" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650028A	Date Monumented 6/14/2017	Monumented By AHTD	County SEBASTIAN	Route 45	Job Number: 040713, 040889
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	112,613.4136 0.0020
Easting (M)	183,004.4386 0.0020
Elevation (M)*	143.953

Northing (SFT)	369,465.8411	
Easting (SFT)	600,407.0623	
Elevation (SFT)*	472.287	

Convergence Angle	-1	23	20.0973152
Scale Factor	0.999946138		
Elevation Adjust. Factor	0.9999774095		
Combined Adjust. Factor	0.9999235488		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MANHOLE	248	3.35	11.0
MK # 2	RIGHT OF WAY MARKER	8	11.88	39.0
MK # 3	MANHOLE	353	13.72	45.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JUNE 2017 FOR JOB #040713 FROM 1ST ORDER NGS BM'S J 298, L 342 & N 342. ELEV. FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARRV	
Ref Mon # 3 OKHV	

Location Description

 TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 45, SOUTH OF FORT SMITH, GO SOUTH ON HIGHWAY 45 FOR 0.15 MILES TO THE MARK ON THE LEFT, 74' SOUTH OF THE BACK OF A CURB AND EAST 45' FEET OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650028A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	650028
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650029	Date Monumented 11/13/2018	Monumented By ARDOT	County SEBASTIAN	Route 252	Job Number: 040778
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	118,894.3460 0.0020
Easting (M)	209,607.7811 0.0020
Elevation (M)*	
Northing (SFT)	390,072.5335
Easting (SFT)	687,688.1952
Elevation (SFT)*	

Convergence Angle	-1	13	10.3706085
Scale Factor	0.999941844		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CTR OF GATE	118	8.23	27.0
MK # 2	FENCE CORNER	87	7.19	23.6
MK # 3	PPOLE / GUY	37	106.00	347.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	PERFORMED SIMULTANEOUS STATIC OBSERVATIONS ON NGS 1ST ORDER BM's U 295 & X 295 AND CONSTRAINED THEM IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARRV	
Ref Mon # 3 ARFS, OKHV	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12B
Latitude	35 23 12.3208368
Longitude	94 5 44.8997892
Ellipsoid Height (M):	87.861 0.0030
Geoid Height (M):	-29.704 0.0030

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF SR-252 AND SR-217S NE OF LAVACA, GO E ON SR-252 0.50 MILES TO THE STATION ON THE LEFT. 17.5' E OF THE C/L OF SR-252, 14.8' S C/L OF GRAVEL DW. 11.3' N OF C/L DIRT DW. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "650029 2018" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650029A	Date Monumented 11/13/2018	Monumented By ARDOT	County SEBASTIAN	Route 252	Job Number: 040778
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	119,333.9356	0.0020			
Easting (M)	209,617.0885	0.0020			
Elevation (M)*					
Northing (SFT)	391,514.7537				
Easting (SFT)	687,718.7312				
Elevation (SFT)*					

Convergence Angle	-1	13	10.3717774
Scale Factor	0.999941609		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF SR-252 AND SR-217S NE OF LAVACA, GO E ON SR-252 0.20 MILES TO THE STATION ON THE RIGHT. 16.7' W OF THE C/L OF SR-252. THE MARK IS A STANDARD 2½" CAP STAMPED "650029A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	650029
			Meters	Feet		
MK # 1					Geodetic Azimuth	
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	PERFORMED SIMULTANEOUS STATIC OBSERVATIONS ON NGS 1ST ORDER BM's U 295 & X 295 AND CONSTRAINED THEM IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARRV	
Ref Mon # 3 ARFS, OKHV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650030	Date Monumented 12/19/2018	Monumented By AHTD	County SEBASTIAN	Route 45	Job Number: 040792
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	83,237.8410	0.0010			
Easting (M)	186,100.0412	0.0010			
Elevation (M)*					
Northing (SFT)	273,089.4833				
Easting (SFT)	610,563.2185				
Elevation (SFT)*					

Convergence Angle	-1	21	52.6759793		
Scale Factor	0.999977412				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252E AND STATE HIGHWAY 45S, SOUTH OF MIDLAND, GO SOUTH ON HIGHWAY 45 1.0 MILE TO THE MARK ON LEFT, SOUTHEAST OF THE C/L OF THE HIGHWAY 24' AND SOUTHWEST OF THE C/L OF A DRIVEWAY 111.0'. THE STATION MARK IS A STANDARD 2" CAP STAMPED "2018 650030" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE W/TRANSFORMER	245	30.48	100.0	AZ Mark Station 650030A
MK # 2	5 BARBWIRE FE	130	4.88	16.0	Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFS Ref Mon # 2 ARFY Ref Mon # 3 ARRV, OKHV	GPS DERIVED ELEV. BASED ON CONSTRAINTS ON 1ST ORDER NGS BM Y 298 AND ON ARDOT CORS SITES ARFS, ARFY & ARRV IN FINAL STATIC NETWORK ADJUSTMENT

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650030A	Date Monumented 12/19/2018	Monumented By AHTD	County SEBASTIAN	Route 45	Job Number: 040792
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	83,598.4283	0.0010			
Easting (M)	186,342.2883	0.0010			
Elevation (M)*					
Northing (SFT)	274,272.5102				
Easting (SFT)	611,357.9909				
Elevation (SFT)*					

Convergence Angle	-1	21	47.3113451		
Scale Factor	0.999976891				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252E AND STATE HIGHWAY 45S, SOUTH OF MIDLAND, GO SOUTH ON HIGHWAY 45 0.75 MILES TO THE MARK ON RIGHT, NORTHWEST OF THE C/L OF THE HIGHWAY 32'. THE STATION MARK IS A STANDARD 2" CAP STAMPED "2018 650030A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	SERVICE POLE		46	9.45	31.0
MK # 2	FENCE CORNER		230	1.46	4.8
MK # 3	GAS METER		38	23.19	76.1

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFS</p> <p>Ref Mon # 2 ARFY</p> <p>Ref Mon # 3 ARRV, OKHV</p>	<p style="text-align: center;">Comments</p> <p>GPS DERIVED ELEV. BASED ON CONSTRAINTS ON 1ST ORDER NGS BM Y 298 AND ON ARDOT CORS SITES ARFS, ARFY & ARRV IN FINAL STATIC NETWORK ADJUSTMENT</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650031	Date Monumented 12/19/2018	Monumented By AHTD	County SEBASTIAN	Route 45	Job Number: 040792
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	88,500.5650	0.0010			
Easting (M)	184,192.9467	0.0010			
Elevation (M)*					
Northing (SFT)	290,355.6037				
Easting (SFT)	604,306.3593				
Elevation (SFT)*					

Convergence Angle	-1	22	39.3653387
Scale Factor	0.999970305		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252E AND STATE HIGHWAY 45S, NORTH OF MIDLAND, GO NORTH ON HIGHWAY 45 0.2 MILES TO THE MARK ON LEFT, WEST OF THE C/L OF THE HIGHWAY 28'. THE STATION MARK IS A STANDARD 2" CAP STAMPED "2018 650031" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CENTER OF A GATE	106			AZ Mark Station
MK # 2		26.76			Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFS Ref Mon # 2 ARFY Ref Mon # 3 ARRV, OKHV	Comments GPS DERIVED ELEV. BASED ON CONSTRAINTS ON 1ST ORDER NGS BM Y 298 AND ON ARDOT CORS SITES ARFS, ARFY & ARRV IN FINAL STATIC NETWORK ADJUSTMENT
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650031A	Date Monumented 12/19/2018	Monumented By AHTD	County SEBASTIAN	Route 45	Job Number: 040792
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	88,967.9224 0.0010
Easting (M)	184,231.1108 0.0010
Elevation (M)*	

Northing (SFT)	291,888.9254		
Easting (SFT)	604,431.5693		
Elevation (SFT)*			

Convergence Angle	-1	22	38.7467941
Scale Factor	0.999969699		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252E AND STATE HIGHWAY 45S, NORTH OF MIDLAND, GO NORTH ON HIGHWAY 45 0.5 MILES TO THE MARK ON RIGHT, EAST OF THE C/L OF THE HIGHWAY 22.7'. THE STATION MARK IS A STANDARD 2" CAP STAMPED "2018 650031A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	175	13.41	44.0
MK # 2	POWER POLE W/GUY	209	35.05	115.0
MK # 3				

AZ Mark Station	650031
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFS Ref Mon # 2 ARFY Ref Mon # 3 ARRV, OKHV	GPS DERIVED ELEV. BASED ON CONSTRAINTS ON 1ST ORDER NGS BM Y 298 AND ON ARDOT CORS SITES ARFS, ARFY & ARRV IN FINAL STATIC NETWORK ADJUSTMENT

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650032	Date Monumented 1/8/2019	Monumented By ARDOT	County Sebastian	Route 71	Job Number: 040781
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	89,121.9729 0.0010
Easting (M)	193,332.2495 0.0010
Elevation (M)*	179.850

Northing (SFT)	292,394.3394		
Easting (SFT)	634,290.8886		
Elevation (SFT)*	590.059		

Convergence Angle	-1	19	9.7437642
Scale Factor	0.999969227		
Elevation Adjust. Factor	0.9999717764		
Combined Adjust. Factor	0.9999410043		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252E AND STATE HIGHWAY 71, NORTH OF MANSFIELD, GO NORTH ON HIGHWAY 71 0.4 MILES TO THE MARK ON THE LEFT, WEST 24.1' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2" CAP STAMPED "650032 2019" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE	216	6.92	22.7
MK # 2	CABLE MARKER	347	14.63	48.0
MK # 3				

AZ Mark Station	650032A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFS Ref Mon # 2 ARFY Ref Mon # 3 ARRV, OKHV	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM A 299 BY S5112 IN JANUARY 2019 FOR JOB #040781.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650032A	Date Monumented 1/8/2019	Monumented By ARDOT	County Sebastian	Route 71	Job Number: 040781
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	89,670.7592 0.0010
Easting (M)	193,357.8599 0.0010
Elevation (M)*	182.105
Northing (SFT)	294,194.8158
Easting (SFT)	634,374.9120
Elevation (SFT)*	597.455

Convergence Angle	-1	19	9.4457422
Scale Factor	0.999968528		
Elevation Adjust. Factor	0.9999714227		
Combined Adjust. Factor	0.9999399516		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER VALVE	323	3.65	12.0
MK # 2	FENCE CORNER	280	4.36	14.3
MK # 3	BENCH MARK A 299	335	12.68	41.6

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFS Ref Mon # 2 ARFY Ref Mon # 3 ARRV, OKHV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM A 299 BY S5112 IN JANUARY 2019 FOR JOB #040781.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM A 299 BY S5112 IN JANUARY 2019 FOR JOB #040781.
Comments			
ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM A 299 BY S5112 IN JANUARY 2019 FOR JOB #040781.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252E AND STATE HIGHWAY 71, NORTH OF MANSFIELD, GO NORTH ON HIGHWAY 71 0.75 MILES TO THE MARK ON THE LEFT, WEST 23.9" OF THE C/L OF THE HIGHWAY AND 22.1' SOUTH OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2" CAP STAMPED "650032A 2019" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650033	Date Monumented 8/14/2019	Monumented By ARDOT	County SEBASTIAN	Route US-71	Job Number: 040762, 040823
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	99,126.8937	0.0020			
Easting (M)	191,347.6245	0.0020			
Elevation (M)*	180.415				
Northing (SFT)	325,218.8171				
Easting (SFT)	627,779.6647				
Elevation (SFT)*	591.913				

Convergence Angle	-1	20	0.6897630
Scale Factor	0.999957714		
Elevation Adjust. Factor	0.9999716877		
Combined Adjust. Factor	0.9999294029		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
650033 TO REACH THE STATION MARK FROM THE JUNCTION OF US-71 AND SR-10 W OF GREENWOOD, GO N ON US-71 0.1 MILES TO STATION ON L IN THE MEDIAN. 29' E OF C/L US-71 SB. 56' E OF C/L US-71 NB. THE MARK IS A STANDARD 2½" CAP STAMPED "650033 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFS Ref Mon # 2 ARFY, ARGS Ref Mon # 3 ARR, V, CTA1	ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650033A	Date Monumented 8/14/2019	Monumented By ARDOT	County SEBASTIAN	Route US-71	Job Number: 040762
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	99,573.9691 0.0020
Easting (M)	191,213.4758 0.0020
Elevation (M)*	167.637
Northing (SFT)	326,685.5970
Easting (SFT)	627,339.5452
Elevation (SFT)*	549.989

Convergence Angle	-1	20	4.0146818
Scale Factor	0.999957257		
Elevation Adjust. Factor	0.9999736930		
Combined Adjust. Factor	0.9999309511		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
650033A TO REACH THE STATION MARK FROM THE JUNCTION OF US-71 AND SR-10 W OF GREENWOOD, GO N ON US-71 0.4 MILES TO STATION ON L IN THE MEDIAN. 29' E OF C/L US-71 SB. 56' E OF C/L US-71 NB. THE MARK IS A STANDARD 2½" CAP STAMPED "650033A 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFS Ref Mon # 2 ARFY, ARGS Ref Mon # 3 ARRV, CTA1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;"> ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762 </td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762
Comments			
ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650034	Date Monumented 8/14/2019	Monumented By ARDOT	County SEBASTIAN	Route COKER ST	Job Number: 040762
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	98,591.1173	0.0020
Easting (M)	194,224.4650	0.0020
Elevation (M)*	150.724	

Northing (SFT)	323,461.0240	
Easting (SFT)	637,218.0989	
Elevation (SFT)*	494.501	

Convergence Angle	-1 18	54.2397195
Scale Factor	0.999958201	
Elevation Adjust. Factor	0.9999763470	
Combined Adjust. Factor	0.9999345490	

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	CP / GY	185	21.70	71.2		
MK # 2	CTR OF GATE	252	10.97	36.0		
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFS Ref Mon # 2 ARFY, ARGS Ref Mon # 3 ARRV, CTA1	ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650034A	Date Monumented 8/14/2019	Monumented By ARDOT	County SEBASTIAN	Route COKER ST	Job Number: 040762
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	99,112.3458	0.0020	
Easting (M)	194,265.8056	0.0020	
Elevation (M)*	151.831		
Northing (SFT)	325,171.0878		
Easting (SFT)	637,353.7305		
Elevation (SFT)*	498.132		

Convergence Angle	-1	18	53.5640885
Scale Factor	0.999957659		
Elevation Adjust. Factor	0.9999761733		
Combined Adjust. Factor	0.9999338333		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	LP / TB	16	4.88	16.0	650034
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFS	ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762
Ref Mon # 2 ARFY, ARGS	
Ref Mon # 3 ARRV, CTA1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650035	Date Monumented 8/14/2019	Monumented By ARDOT	County SEBASTIAN	Route SR-10	Job Number: 040762
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	99,313.2941	0.0030			
Easting (M)	195,925.5079	0.0020			
Elevation (M)*	159.427				
Northing (SFT)	325,830.3657				
Easting (SFT)	642,798.9372				
Elevation (SFT)*	523.052				

Convergence Angle	-1	18	15.4958772
Scale Factor	0.999957413		
Elevation Adjust. Factor	0.9999749814		
Combined Adjust. Factor	0.9999323955		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SIGNAL POLE	277	11.28	37.0
MK # 2	CP	320	9.85	32.3
MK # 3	CP/TB/METER LOOP	75	8.84	29.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFS Ref Mon # 2 ARFY, ARGS Ref Mon # 3 ARRV, CTA1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762
Comments			
ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	35 12 27.2942172
Longitude	94 14 29.2608924
Ellipsoid Height (M):	128.969 0.0090
Geoid Height (M):	-30.429 0.0090

Location Description
650035 TO REACH THE STATION MARK FROM THE JUNCTION OF SR-10 AND SR-96 E OF GREENWOOD, GO E ON SR-10 0.3 MILES TO STATION ON L. 26' N OF C/L SR-10. 60.5'E OF C/L HARMONY DR. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "650035 2019" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	650035A
Geodetic Azimuth	
Grid Azimuth	

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650035A	Date Monumented 8/14/2019	Monumented By ARDOT	County SEBASTIAN	Route SR-10	Job Number: 040762
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	99,255.2295	0.0030			
Easting (M)	196,307.5805	0.0020			
Elevation (M)*	157.385				
Northing (SFT)	325,639.8655				
Easting (SFT)	644,052.4537				
Elevation (SFT)*	516.354				

Convergence Angle	-1	18	6.6775483
Scale Factor	0.999957464		
Elevation Adjust. Factor	0.9999753018		
Combined Adjust. Factor	0.9999327668		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	LP		194	5.67	18.6
MK # 2	LP/2GY		178	21.28	69.8
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFS Ref Mon # 2 ARFY, ARGS Ref Mon # 3 ARRV, CTA1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762
Comments			
ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762			

Location Description
650035A TO REACH THE STATION MARK FROM THE JUNCTION OF SR-10 AND SR-96 E OF GREENWOOD, GO E ON SR-10 0.55 MILES TO STATION ON R. 28.6' S OF C/L SR-10. 46.2'W OF C/L WELLS SCHOOL RD. THE MARK IS A STANDARD 2½" CAP STAMPED "650035A 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	650035
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650036	Date Monumented 8/28/2019	Monumented By ARDOT	County SEBASTIAN	Route 71B	Job Number: 040723, 040889
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	112,962.7980	0.0020			
Easting (M)	181,595.6556	0.0020			
Elevation (M)*	148.236				
Northing (SFT)	370,612.1131				
Easting (SFT)	595,785.0801				
Elevation (SFT)*	486.337				

Convergence Angle	-1	23	52.7426014
Scale Factor	0.999945916		
Elevation Adjust. Factor	0.9999767375		
Combined Adjust. Factor	0.9999226548		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	264	19.72	64.7
MK # 2	GAS MNETER	19.72	28.13	92.3
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARGS Ref Mon # 2 ARFS Ref Mon # 3 ARFY, ARRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.
Comments			
ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	35 19 39.1322820
Longitude	94 24 8.8230672
Ellipsoid Height (M):	117.946 0.0001
Geoid Height (M):	-30.290 0.0001

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY I 540 AND STATE HIGHWAY 255 (ZERO ST.), IN FORT SMITH, GO NORTH ON HIGHWAY 255 0.4 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF 71B AND 24.3' WEST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "650036 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	650036A
Geodetic Azimuth	
Grid Azimuth	

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650036A	Date Monumented 8/28/2019	Monumented By ARDOT	County SEBASTIAN	Route 71B	Job Number: 040723, 040889
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	112,986.7489	0.0030			
Easting (M)	181,153.1742	0.0030			
Elevation (M)*	144.908				
Northing (SFT)	370,690.6920				
Easting (SFT)	594,333.3724				
Elevation (SFT)*	475.418				

Convergence Angle	-1	24	2.9482360
Scale Factor	0.999945907		
Elevation Adjust. Factor	0.9999772598		
Combined Adjust. Factor	0.9999231680		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	240	4.66	15.3
MK # 2	LIGHT POLE	151	12.04	39.5
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARGS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARFS</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARFY, ARRV</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARGS	Ref Mon # 2	ARFS	Ref Mon # 3	ARFY, ARRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARGS										
Ref Mon # 2	ARFS										
Ref Mon # 3	ARFY, ARRV										
Comments											
ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.											

Vertical Determined By: 3rd Order - Digital Levels

Elevation Datum: NAVD 88

Geoid Datum: Geoid12B

Latitude 35 19 39.5585940

Longitude 94 24 26.3615616

Ellipsoid Height (M): 114.612 0.0001

Geoid Height (M): -30.295 0.0001

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY I 540 AND STATE HIGHWAY 255 (ZERO ST.), IN FORT SMITH, GO NORTH ON HIGHWAY 255 0.7 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF 71B 33.1', 47.5' WEST OF THE C/L OF A DRIVEWAY AND 69.5' EAST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "650036A 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	650036
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650037	Date Monumented 8/28/2019	Monumented By ARDOT	County SEBASTIAN	Route 71B	Job Number: 040723
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	115,722.7054 0.0020
Easting (M)	179,364.1106 0.0020
Elevation (M)*	131.841
Northing (SFT)	379,666.9093
Easting (SFT)	588,463.7529
Elevation (SFT)*	432.550

Convergence Angle	-1 24 45.7116386
Scale Factor	0.999944111
Elevation Adjust. Factor	0.9999793102
Combined Adjust. Factor	0.9999234224

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	59	11.55	37.9
MK # 2	END OF FE/GATE	289	2.68	8.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS Ref Mon # 2 ARFS Ref Mon # 3 ARFY, ARRV	ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 271 AND STATE HIGHWAY 255/271, IN FORT SMITH, GO NORTH ON HIGHWAY 71B 1.55 MILES TO FRESNO STREET AND TURN LEFT (WEST) AND GO 0.3 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF FRESNO STREET AND EAST 45.6' EAST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "650037 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	35 21 6.8877360
Longitude	94 25 39.8509356
Ellipsoid Height (M):	101.615 0.0001
Geoid Height (M):	-30.226 0.0001

AZ Mark Station	650037A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650037A	Date Monumented 8/28/2019	Monumented By ARDOT	County SEBASTIAN	Route 71B	Job Number: 040723
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	115,704.1419	0.0030			
Easting (M)	179,819.9248	0.0020			
Elevation (M)*	135.414				
Northing (SFT)	379,606.0056				
Easting (SFT)	589,959.2033				
Elevation (SFT)*	444.272				

Convergence Angle	-1	24	35.1987292		
Scale Factor	0.999944116				
Elevation Adjust. Factor	0.9999787495				
Combined Adjust. Factor	0.9999228667				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 271 AND STATE HIGHWAY 255/271, IN FORT SMITH, GO NORTH ON HIGHWAY 71B 1.55 MILES TO FRESNO STREET AND TURN LEFT (WEST) AND GO 0.05 MILES TO THE MARK ON THE LEFT, 20.7' SOUTH OF THE C/L OF FRESNO STREET AND EAST 33.4', EAST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "650037A 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	RR SIGNAL LIGHT BOX	90		24.08	79.0
MK # 2	LIGHT POLE	91		28.56	93.7
MK # 3	POWER POLE W/GUY	270		22.92	75.2

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARGS	<p>ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.</p>
Ref Mon # 2	ARFS	
Ref Mon # 3	ARFY, ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650038	Date Monumented 8/28/2019	Monumented By ARDOT	County SEBASTIAN	Route 71B	Job Number: 040723
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	119,070.4155	0.0030			
Easting (M)	180,258.4967	0.0030			
Elevation (M)*	137.146				
Northing (SFT)	390,650.1882				
Easting (SFT)	591,398.0846				
Elevation (SFT)*	449.953				

Convergence Angle	-1	24	26.9993554
Scale Factor	0.999942114		
Elevation Adjust. Factor	0.9999784778		
Combined Adjust. Factor	0.9999205930		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTR BANKCORPSOUTH SIGN	236	3.96	13.0
MK # 2	CROSSING LIGHT	59	3.29	10.8
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARGS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARFS</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARFY, ARRV</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARGS	Ref Mon # 2	ARFS	Ref Mon # 3	ARFY, ARRV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARGS										
Ref Mon # 2	ARFS										
Ref Mon # 3	ARFY, ARRV										
Comments											
ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.											

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 22 AND STATE HIGHWAY 71B, IN FORT SMITH, GO EAST ON HIGHWAY 22 0.15 MILES TO THE MARK ON THE RIGHT, SOUTH 52.3' OF THE C/L OF THE HIGHWAY, 40' NORTH OF THE C/L OF SOUTH A STREET AND 29.5' WEST OF THE C/L OF 14th STREET. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "650038 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

AZ Mark Station	650038A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650038A	Date Monumented 8/28/2019	Monumented By ARDOT	County SEBASTIAN	Route 71B	Job Number: 040723
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	119,278.0536	0.0030			
Easting (M)	179,896.7256	0.0020			
Elevation (M)*	131.020				
Northing (SFT)	391,331.4142				
Easting (SFT)	590,211.1739				
Elevation (SFT)*	429.856				

Convergence Angle	-1	24	35.4558285
Scale Factor	0.999942005		
Elevation Adjust. Factor	0.9999794391		
Combined Adjust. Factor	0.9999214453		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS	ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.
Ref Mon # 2 ARFS	
Ref Mon # 3 ARFY, ARRV	

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 22 AND STATE HIGHWAY 71B, IN FORT SMITH, GO WEST ON HIGHWAY 22 0.15 MILES TO THE MARK ON THE LEFT, SOUTH 38' OF THE C/L OF THE HIGHWAY, THE MARK IS A STANDARD 2 1/2" CAP STAMPED "650038A 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	650038
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650039	Date Monumented 4/8/2020	Monumented By ARDOT	County SEBASTIAN	Route 45	Job Number: 040793
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	98,457.9397 0.0020
Easting (M)	180,226.4621 0.0030
Elevation (M)*	

Northing (SFT)	323,024.0905	
Easting (SFT)	591,292.9844	
Elevation (SFT)*		

Convergence Angle	-1	24	16.0892063
Scale Factor	0.999958691		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE HIGHWAY 10W, IN HACKETT, GO NORTH ON HIGHWAY 45 0.6 MILES TO THE MARK ON THE RIGHT, EAST OF THE C/L OF THE HIGHWAY 37.8' AND 2.6' NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650039" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS MARKER	4	5.09	16.7
MK # 2	COMBINATION POLE	212	13.17	43.2
MK # 3	FENCE CORNER	190	0.80	2.6

Area Reference Monuments (used for Processing) Ref Mon # 1 ARDQ Ref Mon # 2 ARFS Ref Mon # 3 ARFY, ARRV	<div style="border: 1px solid black; height: 100px; padding: 5px;"> Comments </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650039A	Date Monumented 4/8/2020	Monumented By ARDOT	County SEBASTIAN	Route 45	Job Number: 040793
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	98,778.5951	0.0020			
Easting (M)	180,277.4641	0.0030			
Elevation (M)*					
Northing (SFT)	324,076.1074				
Easting (SFT)	591,460.3135				
Elevation (SFT)*					

Convergence Angle	-1	24	15.0970873		
Scale Factor	0.999958352				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	FENCE T INTERSECTION	264		4.94	16.2
MK # 2	SOUTH END OF A CMP	158		2.13	7.0
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	
Ref Mon # 2 ARFS	
Ref Mon # 3 ARFY, ARRV	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 11 57.9471972
Longitude	94 24 47.2394952
Ellipsoid Height (M):	139.305 0.0100
Geoid Height (M):	-30.727 0.0100

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE HIGHWAY 10W, IN HACKETT, GO NORTH ON HIGHWAY 45 0.8 MILES TO THE MARK ON THE LEFT,, WEST OF THE C/L OF THE HIGHWAY 30.4', 5.4' NORTH OF A WITNESS POST AND 57.1' NORTH OF THE C/L OF AN ASPH DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650039A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650040	Date Monumented 4/8/2020	Monumented By ARDOT	County SEBASTIAN	Route 45	Job Number: 040793
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	105,534.0440	0.0020			
Easting (M)	179,278.4642	0.0030			
Elevation (M)*					
Northing (SFT)	346,239.6094				
Easting (SFT)	588,182.7613				
Elevation (SFT)*					

Convergence Angle	-1	24	41.8999803
Scale Factor	0.999951846		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	
Ref Mon # 2 ARFS	
Ref Mon # 3 ARFY, ARRV	

Vertical Determined By: GPS - Unknown Quality	
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 15 36.2990448
Longitude	94 25 33.3005592
Ellipsoid Height (M):	114.681 0.0100
Geoid Height (M):	-30.560 0.0100

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE MHIGHWAY 253, NORTH OF BONANZA, GO SOUTH ON HIGHWAY 45 0.45 MILES TO THE MARK ON THE RIGHT,, SOUTHWEST OF THE C/L OF THE HIGHWAY 19.7', AND 11.4' NORTHEAST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650040" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650040A	Date Monumented 4/8/2020	Monumented By ARDOT	County SEBASTIAN	Route 45	Job Number: 040793
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	105,807.0271	0.0030			
Easting (M)	179,010.5820	0.0040			
Elevation (M)*					
Northing (SFT)	347,135.2214				
Easting (SFT)	587,303.8844				
Elevation (SFT)*					

Convergence Angle	-1	24	48.2202225		
Scale Factor	0.999951611				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE HIGHWAY 253, NORTH OF BONANZA, GO SOUTH ON HIGHWAY 45 0.2 MILES TO THE MARK ON THE RIGHT, WEST OF THE C/L OF THE HIGHWAY 33 AND 32.3' SOUTH OF THE C/L OF A CONCRETE DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650040A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE W/3 GUYS	177	22.31	73.2	AZ Mark Station 650040
MK # 2	GAS METER	250	16.00	52.5	Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	
Ref Mon # 2 ARFS	
Ref Mon # 3 ARFY, ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650041	Date Monumented 4/28/2020	Monumented By ARDOT	County SEBASTIAN	Route 71	Job Number: 040823
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	101,552.0507	0.0030			
Easting (M)	189,700.1147	0.0030			
Elevation (M)*					
Northing (SFT)	333,175.3530				
Easting (SFT)	622,374.4596				
Elevation (SFT)*					

Convergence Angle	-1	20	39.8909752
Scale Factor	0.999955315		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 10S, WEST OF GREENWOOD, GO NORTH ON HIGHWAY 71 0.35 MILES TO THE MARK ON THE LEFT IN THE MEDIAN, 5.6' NORTH OF THE END OF THE CABLE BARRIER, 6.5' WEST OF THE EDGE OF PAVEMENT OF THE NORTHBOUND LANE AND 9.2' EAST OF THE EDGE OF THE PAVEMENT OF THE SOUTHBOUND LANE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650041" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						650005
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650042	Date Monumented 5/18/2020	Monumented By ARDOT	County SEBASTIAN	Route 22	Job Number: 040874
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	110,897.4041	0.0030			
Easting (M)	199,992.7340	0.0030			
Elevation (M)*					
Northing (SFT)	363,835.9000				
Easting (SFT)	656,142.8281				
Elevation (SFT)*					

Convergence Angle	-1	16	47.8989038
Scale Factor	0.999947094		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER HEADWALL	65	2.53	8.3
MK # 2	FENCE CORNER	19	10.21	33.5
MK # 3	WATER VALVE	98	21.64	71.0

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARDQ</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARFS</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARFY, ARRV</td> </tr> </table>	Ref Mon # 1	ARDQ	Ref Mon # 2	ARFS	Ref Mon # 3	ARFY, ARRV	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARDQ						
Ref Mon # 2	ARFS						
Ref Mon # 3	ARFY, ARRV						

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 18 46.0788300
Longitude	94 11 58.7245380
Ellipsoid Height (M):	105.825 0.0060
Geoid Height (M):	-30.108 0.0060

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 96 AND STATE HIGHWAY 22, EAST OF CENTRAL CITY, GO EAST ON HIGHWAY 22 239' TO THE MARK ON THE LEFT, NORTH OF THE NORTH EDGE OF THE ASPHALT 12.5'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650042" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650042A	Date Monumented 5/18/2020	Monumented By ARDOT	County SEBASTIAN	Route 22	Job Number: 040874
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	110,616.7820	0.0030			
Easting (M)	200,373.9431	0.0030			
Elevation (M)*					
Northing (SFT)	362,915.2256				
Easting (SFT)	657,393.5117				
Elevation (SFT)*					

Convergence Angle	-1	16	38.9751460		
Scale Factor	0.999947297				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	FENCE CORNER	273		22.74	74.6
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	
Ref Mon # 2 ARFS	
Ref Mon # 3 ARFY, ARRV	

<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 96 AND STATE HIGHWAY 22, EAST OF CENTRAL CITY, GO EAST ON HIGHWAY 22 0.35 MILES TO THE MARK ON THE RIGHT, SOUTH OF THE C/L OF THE HIGHWAY 32' AND EAST OF THE C/L OF A DRIVEWAY 84.6'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650042A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650043	Date Monumented 5/18/2020	Monumented By ARDOT	County SEBASTIAN	Route 22	Job Number: 040874
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	109,830.5608	0.0030			
Easting (M)	202,839.2882	0.0030			
Elevation (M)*					
Northing (SFT)	360,335.7649				
Easting (SFT)	665,481.8980				
Elevation (SFT)*					

Convergence Angle	-1	15	41.7983524
Scale Factor	0.999947850		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/LIGHT	129	25.94	85.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARDQ	
Ref Mon # 2: ARFS	
Ref Mon # 3: ARFY, ARRV	

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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650043A	Date Monumented 5/18/2020	Monumented By ARDOT	County SEBASTIAN	Route 22	Job Number: 040874
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	109,642.3445	0.0030			
Easting (M)	203,312.2617	0.0030			
Elevation (M)*					
Northing (SFT)	359,718.2586				
Easting (SFT)	667,033.6453				
Elevation (SFT)*					

Convergence Angle	-1	15	30.8112096
Scale Factor	0.999947986		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER OF A BUILDING	7	1.86	6.1
MK # 2	SERVICE POLE	35	22.10	72.5
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARDQ</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARFS</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARFY, ARRV</td> </tr> </table>	Ref Mon # 1	ARDQ	Ref Mon # 2	ARFS	Ref Mon # 3	ARFY, ARRV	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Ref Mon # 1	ARDQ								
Ref Mon # 2	ARFS								
Ref Mon # 3	ARFY, ARRV								
Comments									

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 35 18 7.7483880

Longitude 94 9 46.2484944

Ellipsoid Height (M): 117.579 0.0060

Geoid Height (M): -30.082 0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255N AND STATE HIGHWAY 22, EAST OF CENTRAL CITY, GO WEST ON HIGHWAY 22 72' TO THE MARK ON THE RIGHT, NORTH OF THE C/L OF THE HIGHWAY 13' AND AND WEST 72' OF THE C/L OF HIGHWAY 255. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650043A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650044	Date Monumented 5/18/2020	Monumented By ARDOT	County SEBASTIAN	Route 22	Job Number: 040874
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	108,511.8130	0.0030			
Easting (M)	206,397.1118	0.0030			
Elevation (M)*					
Northing (SFT)	356,009.1732				
Easting (SFT)	677,154.5243				
Elevation (SFT)*					

Convergence Angle	-1	14	19.2093756		
Scale Factor	0.999948818				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252W AND STATE HIGHWAY 22, EAST OF CENTRAL CITY, GO WEST ON HIGHWAY 22 1.8 MILES TO THE MARK ON THE RIGHT, NORTH OF THE C/L OF THE HIGHWAY 30.1' AND AND EAST 24.8' OF THE C/L OF MORRIS CEMETERY ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650044" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	GAS METER		352	16.76	55.0
MK # 2	FENCE CORNER		328	20.94	68.7
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARDQ</p> <p>Ref Mon # 2 ARFS</p> <p>Ref Mon # 3 ARFY, ARRV</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650044A	Date Monumented 5/18/2020	Monumented By ARDOT	County SEBASTIAN	Route 22	Job Number: 040874
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	108,396.2306	0.0030			
Easting (M)	206,858.2912	0.0030			
Elevation (M)*					
Northing (SFT)	355,629.9666				
Easting (SFT)	678,667.5770				
Elevation (SFT)*					

Convergence Angle	-1	14	8.5330291		
Scale Factor	0.999948903				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252W AND STATE HIGHWAY 22, EAST OF CENTRAL CITY, GO WEST ON HIGHWAY 22 1.5 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF THE HIGHWAY 32'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650044A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	POWER POLE		230	10.76	35.3
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	
Ref Mon # 2 ARFS	
Ref Mon # 3 ARFY, ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650045	Date Monumented 5/18/2020	Monumented By ARDOT	County SEBASTIAN	Route 22	Job Number: 040874
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	108,339.7555	0.0030			
Easting (M)	209,488.7956	0.0030			
Elevation (M)*					
Northing (SFT)	355,444.6812				
Easting (SFT)	687,297.8236				
Elevation (SFT)*					

Convergence Angle	-1	13	7.9367202
Scale Factor	0.999948903		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/LIGHT	84	29.11	95.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	
Ref Mon # 2 ARFS	
Ref Mon # 3 ARFY, ARRV	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 17 29.8222440
Longitude	94 5 40.7171256
Ellipsoid Height (M):	138.398 0.0060
Geoid Height (M):	-30.014 0.0060

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252W AND STATE HIGHWAY 22, EAST OF CENTRAL CITY, GO EAST ON HIGHWAY 22 0.15 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF THE HIGHWAY 35.5 AND NORTH 24.2' OF THE BROTHERTON BROTHERS FUNERAL HOME SIGN AND 73.6' EAST OF THE C/LOF AN ASPHALT DRIVEWAY'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650045" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650045A	Date Monumented 5/18/2020	Monumented By ARDOT	County SEBASTIAN	Route 22	Job Number: 040874
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	108,524.1461	0.0030			
Easting (M)	209,925.3824	0.0030			
Elevation (M)*					
Northing (SFT)	356,049.6360				
Easting (SFT)	688,730.1921				
Elevation (SFT)*					

Convergence Angle	-1	12	57.9742144
Scale Factor	0.999948748		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	43	22.04	72.3
MK # 2	GAS METER	278	24.57	80.6
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	
Ref Mon # 2 ARFS	
Ref Mon # 3 ARFY, ARRV	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 17 36.1053672
Longitude	94 5 23.5964508
Ellipsoid Height (M):	139.882 0.0060
Geoid Height (M):	-30.002 0.0060

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252W AND STATE HIGHWAY 22, EAST OF CENTRAL CITY, GO EAST ON HIGHWAY 22 0.45 MILES TO THE MARK ON THE LEFT, NORTH OF THE C/L OF THE HIGHWAY 7 AND WEST OF THE C/L OF A DRIVEWAY 50.5' AND EAST OF THE C/L OF A DRIVEWAY 87.0". THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650044A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650049	Date Monumented 1/5/2021	Monumented By AHTD	County Sebastian	Route 96	Job Number: 04X104
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	82,606.5014 0.0030
Easting (M)	193,438.8308 0.0030
Elevation (M)*	
Northing (SFT)	271,018.1633
Easting (SFT)	634,640.5640
Elevation (SFT)*	

Convergence Angle	-1	19	3.8518386
Scale Factor	0.999978070		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FOC MARKER	68	24.75	81.2
MK # 2	GAS METER	358	17.98	59.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	
Ref Mon # 2 ARFS, ARFY	
Ref Mon # 3 ARRV, OKMC	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 3 23.4517644
Longitude	94 15 52.3611396
Ellipsoid Height (M):	158.139 0.0120
Geoid Height (M):	-30.838 0.0120

Location Description
<p>FROM THE INTERSECTION OF US HWY. 71 AND STATE HWY. 96 IN MANSFIELD, AR, GO WEST ON STATE HWY. 96 FOR 0.9 MILES TO THE STATION ON THE LEFT. THE STATION IS 24.6' SOUTH OF THE CL OF STATE HWY. 96, 12' NORTH OF A 6 BARB WIRE FENCE.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650049A	Date Monumented 1/5/2021	Monumented By AHTD	County Sebastian	Route 96	Job Number: 04X104
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	82,759.9284	0.0030			
Easting (M)	193,805.2237	0.0030			
Elevation (M)*					
Northing (SFT)	271,521.5318				
Easting (SFT)	635,842.6381				
Elevation (SFT)*					

Convergence Angle	-1	18	55.5211563
Scale Factor	0.999977838		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	229	10.12	33.2
MK # 2	COMBINATION POLE	307	21.98	72.1
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	
Ref Mon # 2 ARFS, ARFY	
Ref Mon # 3 ARRV, OKMC	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 3 28.7023716
Longitude	94 15 38.0447712
Ellipsoid Height (M):	154.116 0.0120
Geoid Height (M):	-30.829 0.0120

Location Description
<p>FROM THE INTERSECTION OF US HWY. 71 AND STATE HWY. 96 IN MANSFIELD, AR, GO WEST ON STATE HWY. 96 FOR 0.65 MILES TO THE STATION ON THE LEFT. THE STATION IS 30' SOUTH OF THE CL OF STATE HWY. 96, 15' NORTH OF A 6 BARB WIRE FENCE.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660001	Date Monumented 4/23/1990	Monumented By AHTD	County SEVIER	Route 71	Job Number: 30108
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Zone Arkansas South	Zone Code 302	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 531,879.7515		Geoid Datum:
Easting (M) 201,561.3541		Latitude 33 50 13.1147592
Elevation (M)* 		Longitude 94 8 39.0846336
Northing (SFT) 1,745,008.8180		Ellipsoid Height (M): 63.658
Easting (SFT) 661,289.2092		Geoid Height (M): -27.214
Elevation (SFT)* 		

Convergence Angle -1 12 0.2997803	Location Description
Scale Factor 0.999924375	<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 27 AND U S HIGHWAY 71, LOCATED ABOUT 14.48 KM (9 MI) SOUTH OF LOCKESBURG, GO SOUTH ON U S HIGHWAY 71 FOR .644 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.75 METERS SOUTH FO THE SOUTHEAST END OF THE BRIDGE OVER WILSON CREEK, 8.40 METERS EAST OF THE CENTER OF U S HIGHWAY 71, 1.5 METERS EAST OF GUARDRAIL, AND 1 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 MM CAP STAMPED "90660001. THE SHOT DISTANCE IS 682.468 METERS.</p>
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	DRILL POINT IN SE CORNER BRIDGE END	353	9.03	29.6	90660002
MK # 2	DRILL POINT IN CENCRETE CURBING	277	15.45	50.7	182 34 07.02925
MK # 3	PUNCH POINT IN TOP OF GUARDRAIL POST	185	14.26	46.8	183 46 07.33074

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPE 1	CAP IS STAMPED 90660001
Ref Mon # 2 X 303	
Ref Mon # 3 DEQUEEN CORS 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660002	Date Monumented 4/23/1990	Monumented By AHTD	County SEVIER	Route 71	Job Number: 30108, 030242, R30012
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	531,198.8138	
Easting (M)	201,516.4998	
Elevation (M)*		
Northing (SFT)	1,742,774.7749	
Easting (SFT)	661,142.0498	
Elevation (SFT)*		

Convergence Angle	-1	12	0.9655209
Scale Factor	0.999924748		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT IN TOP OF GUARDRAIL POST	0	8.43	27.7
MK # 2	PUNCH POINT IN TOP OF GUARDRAIL POST	110	2.03	6.7
MK # 3	PUNCH POINT IN TOP OF GUARDRAIL POST	169	10.88	35.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="HOPE 1"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="X 303"/> Ref Mon # 3 <input style="width: 150px;" type="text" value="DEQUEEN CORS 1"/>	<input style="width: 100%; height: 100%;" type="text" value="CAP IS STAMPED 90660002"/>

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 49 50.9869308
Longitude	94 8 40.2741132
Ellipsoid Height (M):	62.068
Geoid Height (M):	-27.204

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 27 AND U S HIGHWAY 71, LOCATED ABOUT 14.48 KM (9 MI) SOUTH OF LOCKESBURG, GO SOUTH ON U S HIGHWAY 71 FOR 1.32 KM (0.82 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.63 METERS SOUTH OF THE NORTH END OF A GUARDRAIL, 8.23 METERS WEST OF THE CENTER OF U S HIGHWAY 71, 1.5 METERS WEST OF GUARDRAIL, AND 1.30 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 MM CAP STAMPED "90660002". THE SHOT DISTANCE IS 682.468 METERS.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660003	Date Monumented 4/23/1990	Monumented By AHTD	County SEVIER	Route 27	Job Number: R30012
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	532,102.9801	
Easting (M)	202,721.5580	
Elevation (M)*		
Northing (SFT)	1,745,741.1939	
Easting (SFT)	665,095.6449	
Elevation (SFT)*		

Convergence Angle	-1	11	35.1489539
Scale Factor	0.999924242		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN RAILROAD TIE FENCE POST	23	12.44	40.8
MK # 2	NBC IN RAILROAD TIE FENCE POST	34	5.54	18.2
MK # 3	NONE	0	0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ASHDOWN NW BASE	Old point number 90660003
Ref Mon # 2 PATE	
Ref Mon # 3 FALLS	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 50 21.1452504
Longitude	94 7 54.1476228
Ellipsoid Height (M):	
Geoid Height (M):	-27.833

Location Description
THE STATION IS IN A FIELD SOUTH OF HWY. 27 BY FOUR CHICKEN HOUSES, 231 FEET SOUTHEAST OF THE SOUTHEAST OF 4TH CHICKEN HOUSE, 5 FEET FROM A FENCE LINE AND 23 FEET SOUTH OF A GATE IN THE FENCE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660004	Date Monumented 4/23/1990	Monumented By AHTD	County SEVIER	Route 27	Job Number: R30012
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Zone Arkansas South	Zone Code 302	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 532,224.6391		Geoid Datum:
Easting (M) 202,774.4470		Latitude 33 50 25.1289960
Elevation (M)* 		Longitude 94 7 52.1893380
Northing (SFT) 1,746,140.3368		Ellipsoid Height (M):
Easting (SFT) 665,269.1649		Geoid Height (M): -27.835
Elevation (SFT)* 		

Convergence Angle -1 11 34.0529201	Location Description THE STATION IS IN A FIELD SOUTH OF HWY. 27 NEAR SOME CHICKEN HOUSES, 3 FEET WEST OF A FENCE LINE, 129 FEET EAST OF THE NORTHEAST CORNER OF THE 3RD CHICKEN HOUSE AND 132 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF THE 2ND CHICKEN HOUSE.
Scale Factor 0.999924177	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE	0	0.00	0.0	AZ Mark Station 90660003
MK # 2	NONE	0	0.00	0.0	Geodetic Azimuth 202 18 12
MK # 3	NONE	0	0.00	0.0	Grid Azimuth 203 29 46

Area Reference Monuments (used for Processing) Ref Mon # 1 ASHDOWN NW BASE Ref Mon # 2 PATE Ref Mon # 3 FALLS	Comments Old point number 90660004
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660005	Date Monumented 4/23/1990	Monumented By AHTD	County SEVIER	Route 27	Job Number: R30012
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Zone Arkansas South	Zone Code 302	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1986)		Elevation Datum: NONE
Northing (M) 533,184.5621		Geoid Datum:
Easting (M) 205,403.9140		Latitude 33 50 58.0448292
Elevation (M)* 		Longitude 94 6 10.6974936
Northing (SFT) 1,749,289.6842		Ellipsoid Height (M):
Easting (SFT) 673,896.0078		Geoid Height (M): -27.834
Elevation (SFT)* 		

Convergence Angle -1 10 37.2488800	Location Description THE STATION IS NORTHEAST OF BEN LOMOND, 45 FEET NORTH OF THE CENTERLINE OF HWY. 27, 29.5 FEET WEST OF A GATE IN A FENCE AND 6 FEET SOUTH OF A FENCE ON TOP OF A HIGH BACKSLOPE.
Scale Factor 0.999923652	
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks					
	Description	Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NBC IN GATE POST	77	8.96	29.4	90660006
MK # 2	NBC IN GATE BRACE POST	82	16.36	53.7	97 18 39
MK # 3	NONE	0	0.00	0.0	98 29 16

Area Reference Monuments (used for Processing) Ref Mon # 1 ASHDOWN NW BASE Ref Mon # 2 PATE Ref Mon # 3 FALLS	Comments Old point number 90660005
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660006	Date Monumented 4/23/1990	Monumented By AHTD	County SEVIER	Route 27	Job Number: R30012
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	533,137.0191	
Easting (M)	205,722.4890	
Elevation (M)*		
Northing (SFT)	1,749,133.7035	
Easting (SFT)	674,941.1993	
Elevation (SFT)*		

Convergence Angle	-1	10	30.2927585
Scale Factor	0.999923673		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NONE	0	0.00	0.0	
MK # 2	NONE	0	0.00	0.0	
MK # 3	NONE	0	0.00	0.0	

Area Reference Monuments (used for Processing) Ref Mon # 1 ASHDOWN NW BASE Ref Mon # 2 PATE Ref Mon # 3 FALLS	Comments Old point number 90660006
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Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 50 56.7142152
Longitude	94 5 58.2689832
Ellipsoid Height (M):	
Geoid Height (M):	-27.833

Location Description
THE STATION IS NORTHEAST OF BEN LOMOND, 55 FEET SOUTH OF THE CENTERLINE OF HWY. 27, 5 FEET NORTH OF A FENCE, 8 FEET NORTH AND 4 FEET EAST OF A TELEPHONE RISER BOX AND 500 FEET EAST OF A CROSSLRAIN ON HWY. 27.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660007	Date Monumented 9/17/1992	Monumented By AHTD	County SEVIER	Route 71	Job Number: 003948, 030249
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	553,873.5096	
Easting (M)	197,659.9345	
Elevation (M)*	128.623	
Northing (SFT)	1,817,166.6727	
Easting (SFT)	648,489.3018	
Elevation (SFT)*	421.991	

Convergence Angle	-1	13	35.4625339
Scale Factor	0.999918470		
Elevation Adjust. Factor	0.9999798153		
Combined Adjust. Factor	0.9998982869		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	2	4.1476416
Longitude	94	11	29.1125184
Ellipsoid Height:	100.871		
Grid Northing (Meters)	553,873.5050		
Grid Easting (Meters)	197,659.9220		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN POWER POLE	159	45.99	150.9	
MK # 2	NBC IN POWER POLE	341	71.03	233.0	
MK # 3	NBC IN UNDERGROUND CABLE MARKER	251	28.81	94.5	

Area Reference Monuments (used for Processing) Ref Mon # 1 DEQUEEN CORS 1 Ref Mon # 2 X 303 Ref Mon # 3 HOCHATOWN	Comments OLD PN = 92660007
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 2 4.1478000
Longitude	94 11 29.1120360
Ellipsoid Height (M):	80.267
Geoid Height (M):	-27.749

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND U.S. HIGHWAY 70 LOCATED IN DEQUEEN, GO SOUTH ON U.S. HIGHWAY 71 FOR 8.40 MILES TO THE STATION ON THE LEFT. THE STATION IS 46 FEET EAST OF THE CENTER OF U.S. HIGHWAY 71, 31 FEET NORTH OF THE ENTRANCE TO JO-PAULS STORE AND 3.80 FEET WEST OF A WITNESS POST. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.

AZ Mark Station	92660007A
Geodetic Azimuth	170 27 26
Grid Azimuth	171 41 01

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660007A	Date Monumented 9/17/1992	Monumented By AHTD	County SEVIER	Route 71	Job Number: 003948, 030249
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 553,408.7860		Latitude 34 1 49.1146176
Easting (M) 197,727.8530		Longitude 94 11 26.0770776
Elevation (M)* 107.901		Ellipsoid Height (M): 80.242
		Geoid Height (M): -27.659

Northing (SFT) 1,815,641.9921		Location Description
Easting (SFT) 648,712.1311		<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND U.S. HIGHWAY 70 LOCATED IN DEQUEEN, GO SOUTH ON U.S. HIGHWAY 71 FOR 8.70 MILES TO THE STATION ON THE RIGHT. THE STATION IS 47 FEET WEST OF THE CENTER OF U.S. HIGHWAY 71, 103 FEET SOUTH OF A FIELD ENTRANCE, AND 1.75 FEET EAST OF A WITNESS POST. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.</p>
Elevation (SFT)* 354.005		
Convergence Angle -1 13 33.7638960		
Scale Factor 0.999918472		
Elevation Adjust. Factor 0.9999830671		
Combined Adjust. Factor 0.9999015405		

SUPERCEDED CONTROL				
Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN CORNER FENCE POST	341	25.64	84.1	AZ Mark Station 92660007
MK # 2	NBC IN POWER POLE	170	13.30	43.6	Geodetic Azimuth 350 27 27
MK # 3	NBC IN 18" PINE	79	34.41	112.9	Grid Azimuth 351 41 01

Area Reference Monuments (used for Processing) Ref Mon # 1 DEQUEEN CORS 1 Ref Mon # 2 X 303 Ref Mon # 3 HOCHATOWN	Comments OLD PN = 92660007A
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660008	Date Monumented 9/17/1992	Monumented By AHTD	County SEVIER	Route 71	Job Number: 003948, 030249, 30108
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 555,283.7991		Latitude 34 2 46.0888152
Easting (M) 192,230.8540		Longitude 94 15 1.9298160
Elevation (M)* 128.623		Ellipsoid Height (M): 100.871
		Geoid Height (M): -27.752

Northing (SFT) 1,821,793.5975		
Easting (SFT) 630,677.3935		
Elevation (SFT)* 421.991		

Convergence Angle -1 15 34.5746634		
Scale Factor 0.999918490		
Elevation Adjust. Factor 0.9999798153		
Combined Adjust. Factor 0.9998983069		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND U.S. HIGHWAY 70 LOCATED IN DEQUEEN, GO SOUTH ON U.S. HIGHWAY 71 FOR 4.67 MILES TO THE STATION ON THE LEFT. THE STATION IS 45 FEET NORTH OF THE CENTER OF U.S. HIGHWAY 71, 308 FEET EAST OF THE CENTER OF A PAVED PRIVATE DRIVE, AND 2 FEET SOUTH OF A WITNESS POST. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	80	43.64	143.2
MK # 2	NBC IN 10" PINE	168	28.29	92.8
MK # 3	NBC IN 10" PINE	190	29.55	96.9

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 DEQUEEN CORS 1</p> <p>Ref Mon # 2 X 303</p> <p>Ref Mon # 3 HOCHATOWN</p>	<p style="text-align: center;">Comments</p> <p>OLD PN = 92660008</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660008A	Date Monumented 9/17/1992	Monumented By AHTD	County SEVIER	Route 71	Job Number: 003948, 030249, 30108
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 555,252.5600		Latitude 34 2 45.4437816
Easting (M) 192,748.2010		Longitude 94 14 41.7357060
Elevation (M)* 121.600		Ellipsoid Height (M): 93.853
		Geoid Height (M): -27.747

Northing (SFT) 1,821,691.1073	Easting (SFT) 632,374.7228	Location Description
Elevation (SFT)* 398.949		<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND U.S. HIGHWAY 70 LOCATED IN DEQUEEN, GO SOUTH ON U.S. HIGHWAY 71 FOR 5.0 MILES TO THE STATION ON THE RIGHT. THE STATION IS 47 FEET SOUTH OF THE CENTER OF U.S. HIGHWAY 71, 121 FEET EAST OF THE SOUTH ENTRANCE TO TAYLOR TRACTOR EQUIPMENT AND 1.9 FEET NORTH OF A WITNESS POST. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.</p>
Convergence Angle -1 15 23.2722081		
Scale Factor 0.999918490		
Elevation Adjust. Factor 0.9999809174		
Combined Adjust. Factor 0.9998994089		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NBC IN COMBINATION POLE	293	52.69	172.9	92660008
MK # 2	NBC IN COMBINATION POLE	262	30.03	98.5	272 11 56
MK # 3	NBC IN POWER POLE	52	55.86	183.3	273 27 20

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 DEQUEEN CORS 1</p> <p>Ref Mon # 2 X 303</p> <p>Ref Mon # 3 HOCHATOWN</p>	<p style="text-align: center;">Comments</p> <p>OLD PN = 92660008A</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660009 RESET	4/2/2002	AHTD	SEVIER	70	30108, 3948, 030249,030427

Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	555,369.8650	
Easting (M)	184,514.9870	
Elevation (M)*	132.487	
Northing (SFT)	1,822,075.9654	
Easting (SFT)	605,362.9198	
Elevation (SFT)*	434.669	

Convergence Angle	-1	18	22.9594533
Scale Factor	0.999918488		
Elevation Adjust. Factor	0.9999792089		
Combined Adjust. Factor	0.9998976986		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	19	6.70	22.0
MK # 2	POWER POLE	242	12.25	40.2
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 DEQUEEN CORS 1 Ref Mon # 2 X 303 Ref Mon # 3 HOCHATOWN	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN BY S5112 FROM NGS BM V 302 AND U 302 DURING JOB 030427 IN OCT 2012</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN BY S5112 FROM NGS BM V 302 AND U 302 DURING JOB 030427 IN OCT 2012
Comments			
DIGITAL LEVELS WERE RAN BY S5112 FROM NGS BM V 302 AND U 302 DURING JOB 030427 IN OCT 2012			

Vertical Determined By: 3rd Order - Digital Levels

Elevation Datum: NAVD 88

Geoid Datum: Geoid 96

Latitude 34 2 43.2741588

Longitude 94 20 2.7831156

Ellipsoid Height (M): 104.708

Geoid Height (M): -27.814

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND U.S. HIGHWAY 70 LOCATED IN DEQUEEN, GO WEST ON U.S. HIGHWAY 70 FOR 0.21 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.00 METERS WEST OF THE CENTER OF A CONCRETE DRIVE TO THE FARM BUREAU OFFICE, 7.30 METERS SOUTH OF THE EDGE OF A CONCRETE SIDEWALK, 5.00 METERS NORTH OF A CONCRETE CURB, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660009 RESET 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660009A	Date Monumented 9/17/1992	Monumented By AHTD	County SEVIER	Route 70	Job Number: 30108, 3948, 030249, 030427
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Zone Arkansas South	Zone Code 302	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 555,361.3980		Geoid Datum: Geoid 96
Easting (M) 184,831.8690		Latitude 34 2 43.2337308
Elevation (M)* 126.174		Longitude 94 19 50.4231384
Northing (SFT) 1,822,048.1866		Ellipsoid Height (M): 98.459
Easting (SFT) 606,402.5569		Geoid Height (M): -27.812
Elevation (SFT)* 413.957		

Convergence Angle -1 18 16.0416891	Location Description THIS STATION IS LOCATED 168 FEET WEST OF THE JUNCTION OF U.S. HIGHWAY 71 AND U.S. HIGHWAY 70 IN DEQUEEN, 66 FEET SOUTH OF THE CENTER OF U.S. HIGHWAY 70, 33 FEET EAST OF A CONCRETE ENTRANCE TO WAL-MART, AND 1.34 METERS NORTH OF A WITNESS POST. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.
Scale Factor 0.999918488	
Elevation Adjust. Factor 0.9999801995	
Combined Adjust. Factor 0.9998986891	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF LIGHT BASE BOLT	235	6.25	20.5
MK # 2	NBC IN LIGHT POLE	87	37.73	123.8
MK # 3	"X" CUT IN RETAINING WALL	104	23.01	75.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 DEQUEEN CORS 1	DIGITAL LEVELS WERE RAN BY S5112 FROM NGS BM V 302 AND U 302 DURING JOB 030427 IN OCT 2012
Ref Mon # 2 X 303	
Ref Mon # 3 HOCHATOWN	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660011	Date Monumented 2/2/1994	Monumented By AHTD	County SEVIER	Route 71	Job Number: 030249, 30006
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	563,185.1470	
Easting (M)	186,334.3670	
Elevation (M)*	216.149	
Northing (SFT)	1,847,716.6031	
Easting (SFT)	611,332.0024	
Elevation (SFT)*	709.149	

Convergence Angle	-1	17	47.1238612
Scale Factor	0.999919483		
Elevation Adjust. Factor	0.9999660803		
Combined Adjust. Factor	0.9998855661		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE IN GILLHAM, GO NORTH OF HORNBECK AVENUE FOR 0.21 MILES TO THE JUNCTION OF U.S. HIGHWAY 71 AND 59, TURN RIGHT (SOUTH) ON U.S. HIGHWAY 71 FOR 4.60 MILES TO THE STATION ON THE RIGHT. THE STATION IS 20.10 METERS WEST NORTHWEST OF THE CENTER OF U.S. HIGHWAY 71, 24.84 METERS NORTH NORTHEAST OF THE CENTER OF A DRIVEWAY AND 0.50 METERS EAST SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660011 1994" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CENTER OF GAS METER	352	4.60	15.1	
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 DEQUEEN CORS 1</p> <p>Ref Mon # 2 X 303</p> <p>Ref Mon # 3 HOCHATOWN</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660011A	Date Monumented 2/2/1994	Monumented By AHTD	County SEVIER	Route 71	Job Number: 030249, 30006
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	563,490.1120	
Easting (M)	186,671.0710	
Elevation (M)*	202.891	
Northing (SFT)	1,848,717.1425	
Easting (SFT)	612,436.6721	
Elevation (SFT)*	665.652	

Convergence Angle	-1	17	39.9221673
Scale Factor	0.999919554		
Elevation Adjust. Factor	0.9999681608		
Combined Adjust. Factor	0.9998877174		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	28	24.45	80.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 DEQUEEN CORS 1 Ref Mon # 2 X 303 Ref Mon # 3 HOCHATOWN	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 7 8.3559360
Longitude	94 18 45.8883468
Ellipsoid Height (M):	174.893
Geoid Height (M):	-27.998

Location Description
TO REACH THE STATION FROM THE U.S. POST OFFICE IN GILLHA, GO NORTH OF HORNBECK AVENUE FOR 0.21 MILES TO THE JUNCTION OF U.S. 71 AND 59, TURN RIGHT (SOUTH) ON U.S. HIGHWAY 71 FOR 4.31 MILES TO THE STATION ON THE LEFT. THE STATION IS 16.20 METERS EAST SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 71, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660011A 1994" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.

AZ Mark Station	660011
Geodetic Azimuth	226 32 15
Grid Azimuth	227 49 54

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660012	Date Monumented 2/2/1994	Monumented By AHTD	County SEVIER	Route N/A	Job Number: 030249, 30006
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	566,652.1949	
Easting (M)	186,928.6930	
Elevation (M)*	184.367	
Northing (SFT)	1,859,091.4094	
Easting (SFT)	613,281.8870	
Elevation (SFT)*	604.877	

Convergence Angle	-1	17	35.8554716
Scale Factor	0.999920411		
Elevation Adjust. Factor	0.9999710676		
Combined Adjust. Factor	0.9998914809		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE IN GILLHAM, GO NORTH ON HORNBECK AVENUE FOR 0.21 MILES TO THE JUNCTION OF U.S. HIGHWAY 71 AND 59, TURN RIGHT (SOUTH) ON U.S. HIGHWAY 71 FOR 1.95 MILES TO THE JUNCTION OF KING ROAD ON THE LEFT. TURN LEFT (EAST) ON KING ROAD AND GO 0.27 MILES TO THE STATION ON THE RIGHT. THE STATION IS 5.40 METERS SOUTH OF A PAVED ROAD (KING ROAD), 30.00 METERS WEST OF A FIELD ENTRANCE AND 0.80 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660012 1994" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input type="text" value="DEQUEEN CORS 1"/></p> <p>Ref Mon # 2 <input type="text" value="X 303"/></p> <p>Ref Mon # 3 <input type="text" value="HOCHATOWN"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660012A	Date Monumented 2/2/1994	Monumented By AHTD	County SEVIER	Route N/A	Job Number: 030249, 30006
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	566,675.5340	
Easting (M)	186,479.1060	
Elevation (M)*	186.102	
Northing (SFT)	1,859,167.9811	
Easting (SFT)	611,806.8669	
Elevation (SFT)*	610.570	

Convergence Angle	-1	17	45.6876561
Scale Factor	0.999920415		
Elevation Adjust. Factor	0.9999707954		
Combined Adjust. Factor	0.9998912127		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE U.S. POST OFFICE IN GILLHAM, GO NORTH ON HORNBECK AVENUE FOR 0.21 MILES TO THE JUNCTION OF U.S. HIGHWAY 71 AND 59, TURN RIGHT (SOUTH) ON U.S. HIGHWAY 71 FOR 1.95 MILES TO THE JUNCTION OF BELLA MINE ROAD ON THE RIGHT. TURN RIGHT (WEST) ON BELLA MINE ROAD AND GO 0.06 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7.00 METERS NORTH OF BELLA MINE ROAD, 3.75 METERS SOUTH OF THE EDGE OF A GARDEN, 50.74 METERS WEST OF THE CENTER OF A DRIVEWAY AND 1.25 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660012A 1991" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTHWEST CORNER OF WOODEN BARN	50	25.00	82.0	
MK # 2	NGS BENCH MARK L 302	85	84.04	275.7	
MK # 3	12" CEDAR	140	25.63	84.1	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 DEQUEEN CORS 1	
Ref Mon # 2 X 303	
Ref Mon # 3 HOCHATOWN	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660013	Date Monumented 5/7/2001	Monumented By AHTD	County SEVIER	Route 71	Job Number: 30108, 030242
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	536,870.8130	
Easting (M)	199,730.7173	
Elevation (M)*		
Northing (SFT)	1,761,383.6590	
Easting (SFT)	655,283.1950	
Elevation (SFT)*		

Convergence Angle	-1	12	42.4414432
Scale Factor	0.999922007		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	347	19.55	64.1
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	HOPE 1
Ref Mon # 2	X 303
Ref Mon # 3	DEQUEEN CORS 1

Comments

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 52 53.8300272
Longitude	94 9 54.3791916
Ellipsoid Height (M):	117.932
Geoid Height (M):	-27.301

Location Description
<p>TO REACH THE STATIO FROM THE JUNCTION OF STATE HIGHWAY 27 AND U S HIGHWAY 71, LOCATED ABOUT 14.48 KM (9 MI) SOUTH OF LOCKESBURG, GO NORTH ON U S HIGHWAY 71 FOR 5.19 KM (3.18 MI) TO THE STATION ON THE RIGHT. THE STATION IS 29.50 METERS SOUTH OF THE CENTER OF TIMBER RIDGE ROAD, 12.65 METERS EAST OF THE CENTER OF U S HIGHWAY 71 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660013 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 676.735 METERS.</p>

AZ Mark Station	660013A
Geodetic Azimuth	355 44 38.13939
Grid Azimuth	356 57 20.58296

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660013A	Date Monumented 5/7/2001	Monumented By AHTD	County SEVIER	Route 71	Job Number: 30108, 030242
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	537,546.5305	
Easting (M)	199,694.7808	
Elevation (M)*		
Northing (SFT)	1,763,600.5755	
Easting (SFT)	655,165.2933	
Elevation (SFT)*		

Convergence Angle	-1	12	43.5353452
Scale Factor	0.999921731		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	182	3.10	10.2
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPE 1 Ref Mon # 2 X 303 Ref Mon # 3 DEQUEEN CORS 1	

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 33 53 15.7330716

Longitude 94 9 56.3336676

Ellipsoid Height (M): 115.418

Geoid Height (M): -27.312

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 27 AND U S HIGHWAY 71, LOCATED ABOUT 14.48 KM (9 MI) SOUTH OF LOCKESBURG, GO NORTH ON U S HIGHWAY 71 FOR 5.79 KM (3.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.75 METERS EAST OF THE CENTER OF U S HIGHWAY 71, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660013A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 676.735 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660014	Date Monumented 5/7/2001	Monumented By AHTD	County SEVIER	Route 71	Job Number: 30108, 030242
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	541,250.6237	
Easting (M)	198,803.7242	
Elevation (M)*		
Northing (SFT)	1,775,753.0879	
Easting (SFT)	652,241.8851	
Elevation (SFT)*		

Convergence Angle	-1	13	4.6557096
Scale Factor	0.999920421		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	TELEPHONE JUNCTION BOX	5	8.10	26.6	Geodetic Azimuth	0 37 10.964979
MK # 2	CONCRETE RIGHT OF WAY MARKER	170	15.15	49.7	Grid Azimuth	1 50 15.620381
MK # 3	NONE					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPE 1	
Ref Mon # 2 X 303	
Ref Mon # 3 DEQUEEN CORS 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660014A	Date Monumented 5/7/2001	Monumented By AHTD	County SEVIER	Route 71	Job Number: 30108, 030242
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	542,161.6001	
Easting (M)	198,832.9524	
Elevation (M)*		
Northing (SFT)	1,778,741.8497	
Easting (SFT)	652,337.7780	
Elevation (SFT)*		

Convergence Angle	-1	13	4.4408703
Scale Factor	0.999920149		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHAINLINK FENCE CORNER POST	196	30.40	99.7
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	HOPE 1
Ref Mon # 2	X 303
Ref Mon # 3	DEQUEEN CORS 1

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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660015	Date Monumented 5/7/2001	Monumented By AHTD	County SEVIER	Route 71	Job Number: 30108, 030242
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	546,683.1769	
Easting (M)	199,491.2238	
Elevation (M)*		
Northing (SFT)	1,793,576.3895	
Easting (SFT)	654,497.4568	
Elevation (SFT)*		

Convergence Angle	-1	12	52.1867317
Scale Factor	0.999919098		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 24, U S HIGHWAY 371, AND U S HIGHWAY 71 LOCATED IN LOCKESBURG, GO WEST ON STATE HIGHWAY 24 FOR 0.16 KM (0.10 MI) TO NORTH WEST AVENUE. TURN NORTH ON NORTH WEST AVENUE AND GO 0.29 KM (.18 MI) TO A RAILROAD CROSSING AND THE STATION ON THE RIGHT. THE STATION IS 14.00 METERS EAST OF THE CENTER OF NORTH WEST AVENUE, 10.33 METERS NORTH OF THE NORTH RAIL, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660015 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 424.904 METERS.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	99	19.90	65.3
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 HOPE 1</p> <p>Ref Mon # 2 X 303</p> <p>Ref Mon # 3 DEQUEEN CORS 1</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660015A	Date Monumented 5/7/2001	Monumented By AHTD	County SEVIER	Route 371	Job Number: 30108, 030015, 030624
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	546,688.9907	
Easting (M)	199,066.4259	
Elevation (M)*		

Northing (SFT)	1,793,595.4637	
Easting (SFT)	653,103.7656	
Elevation (SFT)*		

Convergence Angle	-1	13	1.4495578
Scale Factor	0.999919098		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 81 (1997)		
Latitude	33	58	11.9809344
Longitude	94	10	28.3420020
Ellipsoid Height:	93.474		
Grid Northing (Meters)	546,688.9927		
Grid Easting (Meters)	199,066.4005		

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 24, U S HIGHWAY 371, AND U S HIGHWAY 71 LOCATED IN LOCKESBURG, GO WEST ON STATE HIGHWAY 24 FOR .499KM (.31 MI) TO NORTH PARK AVENUE. TURN NORTH ON NORTH PARK AVENUE AND GO .29KM (.18 MI) TO A RAILROAD CROSSING AND THE STATION ON THE LEFT. THE STATION IS 11.48 METERS SOUTH OF THE SOUTH RAIL, 10.48 METERS NORTH OF THE NORTH RAIL, 11.00 METERS WEST OF THE CENTER OF NORTH PARK AVENUE, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660015A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 424.904 METERS.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	0.80 DIAMETER CONCRETE PIPE	156	7.90	25.9
MK # 2	0.80 DIAMETER CONCRETE PIPE	22	7.30	24.0
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: HOPE 1</p> <p>Ref Mon # 2: X 303</p> <p>Ref Mon # 3: DEQUEEN CORS 1</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660016	Date Monumented 5/8/2001	Monumented By AHTD	County SEVIER	Route 71	Job Number: 30108, 030015
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	550,183.5161	
Easting (M)	198,975.5133	
Elevation (M)*		
Northing (SFT)	1,805,060.4191	
Easting (SFT)	652,805.4966	
Elevation (SFT)*		

Convergence Angle	-1	13	5.0510626
Scale Factor	0.999918634		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 24, U S HIGHWAY 71, AND U S HIGHWAY 371 IN LOCKESBURG, GO NORTH ON U S HIGHWAY 71 FOR 3.88 KM (2.41 MI) TO THE STATION ON THE LEFT. THE STATION IS 48.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 10.35 METERS WEST OF THE CENTER OF U S HIGHWAY 71, AND 1.45 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660016 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 422.324 METERS.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN TOP OF METAL FENCE POST	323	2.70	8.9
MK # 2	BRICK FENCE POST	343	37.20	122.0
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="HOPE 1"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="X 303"/> Ref Mon # 3 <input style="width: 150px;" type="text" value="DEQUEEN CORS 1"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660016A	Date Monumented 5/8/2001	Monumented By AHTD	County SEVIER	Route 71	Job Number: 30108, 030015
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	549,773.4022	
Easting (M)	199,076.2027	
Elevation (M)*		
Northing (SFT)	1,803,714.9037	
Easting (SFT)	653,135.8417	
Elevation (SFT)*		

Convergence Angle	-1	13	2.6652798
Scale Factor	0.999918673		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1987)		
Latitude	33	59	52.0787184
Longitude	94	10	30.5138496
Ellipsoid Height:	99.924		
Grid Northing (Meters)	549,773.4129		
Grid Easting (Meters)	199,076.1848		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORRIGATED METAL PIPE	336	17.55	57.6
MK # 2	POWER POLE	345	26.00	85.3
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>HOPE 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>X 303</td> </tr> <tr> <td>Ref Mon # 3</td> <td>DEQUEEN CORS 1</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	HOPE 1	Ref Mon # 2	X 303	Ref Mon # 3	DEQUEEN CORS 1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	HOPE 1										
Ref Mon # 2	X 303										
Ref Mon # 3	DEQUEEN CORS 1										
Comments											

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 33 59 52.0783836

Longitude 94 10 30.5131440

Ellipsoid Height (M): 99.832

Geoid Height (M): -27.637

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 24, U S HIGHWAY 71, AND U S HIGHWAY 371 IN LOCKESBURG, GO NORTH ON U S HIGHWAY 71 FOR 3.46 KM (2.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS 22.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 11.40 METERS EAST OF THE CENTER OF U S HIGHWAY 71, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660016A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 422.324 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660017	Date Monumented 4/2/2002	Monumented By AHTD	County SEVIER	Route 71	Job Number: 30108, 030249
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	559,265.7730	
Easting (M)	185,573.1770	
Elevation (M)*	174.140	
Northing (SFT)	1,834,857.7903	
Easting (SFT)	608,834.6649	
Elevation (SFT)*	571.324	

Convergence Angle	-1	18	1.8020492
Scale Factor	0.999918794		
Elevation Adjust. Factor	0.9999726725		
Combined Adjust. Factor	0.9998914687		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER LINE OF A CONCRETE HEAD WAL	317	7.00	23.0
MK # 2	GAS METER	174	30.50	100.1
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	DEQUEEN CORS 1
Ref Mon # 2	X 303
Ref Mon # 3	HOCHATOWN

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660017A	Date Monumented 4/2/2002	Monumented By AHTD	County SEVIER	Route 71	Job Number: 30108, 030249
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	559,919.4490	
Easting (M)	185,675.0740	
Elevation (M)*		
Northing (SFT)	1,837,002.3923	
Easting (SFT)	609,168.9719	
Elevation (SFT)*		

Convergence Angle	-1	17	59.9017574
Scale Factor	0.999918883		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	LOG MILE 3 SIGN POST	339	15.50	50.9	
MK # 2					
MK # 3					

AZ Mark Station	660017
Geodetic Azimuth	187 33 37
Grid Azimuth	188 51 37

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 DEQUEEN CORS 1	
Ref Mon # 2 X 303	
Ref Mon # 3 HOCHATOWN	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660018	Date Monumented 4/2/2002	Monumented By AHTD	County SEVIER	Route 71	Job Number: 030249
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	571,349.2679	
Easting (M)	186,122.0510	
Elevation (M)*		
Northing (SFT)	1,874,501.7231	
Easting (SFT)	610,635.4290	
Elevation (SFT)*		

Convergence Angle	-1	17	55.8017737
Scale Factor	0.999922129		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHERN MOST WOODEN GATE POST	207	11.35	37.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	DEQUEEN CORS 1
Ref Mon # 2	X 303
Ref Mon # 3	HOCHATOWN

Comments

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 11 22.9710948
Longitude	94 19 14.2604580
Ellipsoid Height (M):	209.037
Geoid Height (M):	-28.256

Location Description
<p>TO REACH THE STATION FROM THE SEVIER/POLK COUNTY LINE LOCATED ON THE NORTH SIDE OF GILLHAM, GO SOUTH ON U.S. HIGHWAY 71 FOR 0.13 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.10 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71 AND 2.25 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660018 2002" SET ON TOP OF AN IRON ROD 0.95 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660019A	Date Monumented 4/8/2002	Monumented By AHTD	County SEVIER	Route 70	Job Number: 030249
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	555,442.4020	
Easting (M)	181,811.9740	
Elevation (M)*		
Northing (SFT)	1,822,313.9472	
Easting (SFT)	596,494.7847	
Elevation (SFT)*		

Convergence Angle	-1	19	21.9684118
Scale Factor	0.999918488		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	138	20.80	68.2
MK # 2	POLE WITH SIREN MOUNTED ON TOP	153	26.60	87.3
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>DEQUEEN CORS 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>X 303</td> </tr> <tr> <td>Ref Mon # 3</td> <td>HOCHATOWN</td> </tr> </table>	Ref Mon # 1	DEQUEEN CORS 1	Ref Mon # 2	X 303	Ref Mon # 3	HOCHATOWN	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	DEQUEEN CORS 1						
Ref Mon # 2	X 303						
Ref Mon # 3	HOCHATOWN						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 2 43.6151724
Longitude	94 21 48.2144904
Ellipsoid Height (M):	96.576
Geoid Height (M):	-27.836

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 399 LOCATED ON THE WEST SIDE OF DEQUEEN, GO EAST ON U.S. HIGHWAY 70 FOR 0.19 MILES TO THE STATION ON THE RIGHT. THE STATION IS 24.90 METERS WEST OF THE CENTER OF HOMERUN DRIVE, 17.95 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 70, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660019A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	660019
Geodetic Azimuth	270 51 12
Grid Azimuth	272 10 34

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660020	Date Monumented 2/11/2003	Monumented By AHTD	County SEVIER	Route 71	Job Number: 030208
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	528,515.1391	
Easting (M)	201,265.7310	
Elevation (M)*		
Northing (SFT)	1,733,970.0855	
Easting (SFT)	660,319.3191	
Elevation (SFT)*		

Convergence Angle	-1	12	5.1982232
Scale Factor	0.999926331		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF GUARD RAIL		7.10	23.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	X 303, 660015, 660017
Ref Mon # 2	DQUA CORS, 410001
Ref Mon # 3	ARTX CORS, HOPE CORS

Comments

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 33 48 23.7274236

Longitude 94 8 47.8366872

Ellipsoid Height (M): 61.922

Geoid Height (M): -27.169

Location Description

TO REACH THE STATION FROM THE SEVIER / LITTLE RIVER COUNTY LINE, GO NORTH ON U.S. HIGHWAY 71 FOR 1.12 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.40 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71, 6.40 METERS SOUTH OF A GRAVEL ROAD, (RIVER ROAD), AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660020 2003" SET ON TOP OF AN IRON ROD 0.65 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660020A	Date Monumented 2/11/2003	Monumented By AHTD	County SEVIER	Route 71	Job Number: 030208
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	527,348.4782	
Easting (M)	201,156.8490	
Elevation (M)*		
Northing (SFT)	1,730,142.4656	
Easting (SFT)	659,962.0954	
Elevation (SFT)*		

Convergence Angle	-1	12	7.0346330
Scale Factor	0.999927075		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN GUARD RAIL POST	151	5.22	17.1
MK # 2	PUNCH MARK IN GUARD RAIL POST	62	1.50	4.9
MK # 3	PUNCH MARK IN GUARD RAIL POST	126	4.48	14.7

Area Reference Monuments (used for Processing) Ref Mon # 1 X 303, 660015,660017 Ref Mon # 2 DQUA CORS,410001 Ref Mon # 3 ARTX CORS, HOPE CORS	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 47 45.7935072
Longitude	94 8 51.1178028
Ellipsoid Height (M):	61.697
Geoid Height (M):	-27.154

Location Description
TO REACH THE STATION FROM THE SEVIER / LITTLE RIVER COUNTY LINE, GO NORTH ON U.S. HIGHWAY 71 FOR 0.35 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.15 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71, 1.25 METERS WEST OF GUARD RAIL, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660020A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	660020
Geodetic Azimuth	4 07 48
Grid Azimuth	5 19 55

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660021	Date Monumented 2/11/2003	Monumented By AHTD	County SEVIER	Route 24	Job Number: 030208
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	547,311.9861	
Easting (M)	193,680.2320	
Elevation (M)*		
Northing (SFT)	1,795,639.4077	
Easting (SFT)	635,432.5612	
Elevation (SFT)*		

Convergence Angle	-1	14	59.1575149
Scale Factor	0.999919012		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 24 AND 329 LOCATED ABOUT 4 MILE WEST OF LOCKSBURG, GO EAST ON STATE HIGHWAY 24 FOR 0.12 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.35 METERS NORTH OF THE CENTER OF STATE HIGHWAY 24 AND 1.10 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660021 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 X 303, 660015,660017</p> <p>Ref Mon # 2 DQUA CORS,410001</p> <p>Ref Mon # 3 ARTX CORS, HOPE CORS</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660021A	Date Monumented 2/11/2003	Monumented By AHTD	County SEVIER	Route 24	Job Number: 030208
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	547,119.9390	
Easting (M)	194,270.4030	
Elevation (M)*		
Northing (SFT)	1,795,009.3332	
Easting (SFT)	637,368.8138	
Elevation (SFT)*		

Convergence Angle	-1	14	46.2008136
Scale Factor	0.999919042		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GATE POST	112	6.20	20.3
MK # 2	CORRIGATED METAL PIPE	358	3.25	10.7
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 X 303, 660015, 660017	
Ref Mon # 2 DQUA CORS, 410001	
Ref Mon # 3 ARTX CORS, HOPE CORS	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 58 22.6193664
Longitude	94 13 35.5002024
Ellipsoid Height (M):	76.004
Geoid Height (M):	-27.546

Location Description
<p>TO REACH THE STATION FROM THE JUCTION OF STATE HIGHWAYS 24 AND 329 LOCATED ABOUT 4 MILE WEST OF LOCKSBURG, GO EAST ON STATE HIGHWAY 24 FOR 0.50 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.50 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 24 AND, 3.60 METERS WEST OF A GRAVEL DRIVE, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660021A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	660021
Geodetic Azimuth	286 46 45
Grid Azimuth	288 01 31

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660022	Date Monumented 2/11/2003	Monumented By AHTD	County SEVIER	Route 329	Job Number: 030208
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	551,961.9411	
Easting (M)	188,606.6050	
Elevation (M)*		
Northing (SFT)	1,810,895.1351	
Easting (SFT)	618,786.8366	
Elevation (SFT)*		

Convergence Angle	-1	16	52.0271734
Scale Factor	0.999918524		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	REINFORCED CONCRETE PIPE	295	4.85	15.9
MK # 2	REINFORCED CONCRETE PIPE	155	9.20	30.2
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>X 303, 660015, 660017</td> </tr> <tr> <td>Ref Mon # 2</td> <td>DQUA CORS, 410001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARTX CORS, HOPE CORS</td> </tr> </table>	Ref Mon # 1	X 303, 660015, 660017	Ref Mon # 2	DQUA CORS, 410001	Ref Mon # 3	ARTX CORS, HOPE CORS	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	X 303, 660015, 660017						
Ref Mon # 2	DQUA CORS, 410001						
Ref Mon # 3	ARTX CORS, HOPE CORS						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 0 55.6877700
Longitude	94 17 20.3143056
Ellipsoid Height (M):	111.993
Geoid Height (M):	-27.696

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 41 AND 329 LOCATED IN DEQUEEN, GO SOUTH ON STATE HIGHWAY 329 FOR 2.94 MILES TO THE STATION ON THE RIGHT. THE STATION IS 8.2 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 329, 8.3 METERS NORTH OF A GRAVEL DRIVE, AND 1.25 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660022 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	660022A
Geodetic Azimuth	129 43 17
Grid Azimuth	131 00 09

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660022A	Date Monumented 2/11/2003	Monumented By AHTD	County SEVIER	Route 329	Job Number: 030208
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	551,545.2620	
Easting (M)	189,085.8980	
Elevation (M)*		
Northing (SFT)	1,809,528.0804	
Easting (SFT)	620,359.3170	
Elevation (SFT)*		

Convergence Angle	-1	16	41.3710171
Scale Factor	0.999918547		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY WIRE	332	1.95	6.4
MK # 2	FENCE CORNER	108	10.40	34.1
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 X 303, 660015,660017 Ref Mon # 2 DQUA CORS,410001 Ref Mon # 3 ARTX CORS, HOPE CORS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Location Description</th> </tr> <tr> <td style="height: 150px; vertical-align: top;"> TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 41 AND 329 LOCATED IN DEQUEEN,GO SOUTH ON STATE HIGHWAY 329 FOR 3.34 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.6 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 329 AND 0.90 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660022A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. </td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">AZ Mark Station</td> <td style="width: 60%;">660022</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>309 43 28</td> </tr> <tr> <td>Grid Azimuth</td> <td>311 00 09</td> </tr> </table>	Location Description		TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 41 AND 329 LOCATED IN DEQUEEN,GO SOUTH ON STATE HIGHWAY 329 FOR 3.34 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.6 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 329 AND 0.90 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660022A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	AZ Mark Station	660022	Geodetic Azimuth	309 43 28	Grid Azimuth	311 00 09
Location Description										
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 41 AND 329 LOCATED IN DEQUEEN,GO SOUTH ON STATE HIGHWAY 329 FOR 3.34 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.6 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 329 AND 0.90 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660022A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.										
AZ Mark Station	660022									
Geodetic Azimuth	309 43 28									
Grid Azimuth	311 00 09									

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660023	Date Monumented 2/23/2012	Monumented By AHTD	County Sevier	Route hwy.70	Job Number: 030412
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	557,209.3960	
Easting (M)	171,875.6332	
Elevation (M)*	107.777	
Northing (SFT)	1,828,111.1600	
Easting (SFT)	563,895.3066	
Elevation (SFT)*	353.598	

Convergence Angle	-1	22	59.6781726
Scale Factor	0.999918563		
Elevation Adjust. Factor	0.9999830866		
Combined Adjust. Factor	0.9999016509		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	south of cl. hwy 70	350	22.25	73.0	
MK # 2	NE of telephone box	257	23.16	76.0	
MK # 3	North of T of fence	170	2.43	8.0	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> 3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412. </td> </tr> </table>	Comments	3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412.
Comments			
3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660023A	Date Monumented 2/23/2012	Monumented By AHTD	County Sevier	Route hwy.70	Job Number: 030412
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	557,297.4789	
Easting (M)	172,569.2383	
Elevation (M)*	106.822	
Northing (SFT)	1,828,400.1454	
Easting (SFT)	566,170.9093	
Elevation (SFT)*	350.464	

Convergence Angle	-1	22	44.5897396
Scale Factor	0.999918570		
Elevation Adjust. Factor	0.9999832365		
Combined Adjust. Factor	0.9999018079		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	South of cl of hwy.71	345	14.93	49.0
MK # 2	West of 36" pine	83	30.00	98.4
MK # 3	East of 36" pine stump	252	32.00	105.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> 3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412. </td> </tr> </table>	Comments	3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412.
Comments			
3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412.			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660024	Date Monumented 2/23/2012	Monumented By AHTD	County Sevier	Route Hwy.70	Job Number: 030412
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	555,473.9023	
Easting (M)	177,961.0493	
Elevation (M)*	106.592	
Northing (SFT)	1,822,417.2945	
Easting (SFT)	583,860.5426	
Elevation (SFT)*	349.711	

Convergence Angle	-1	20	46.0005981
Scale Factor	0.999918486		
Elevation Adjust. Factor	0.9999832725		
Combined Adjust. Factor	0.9999017599		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Southwest of 36" CMP	40	8.84	29.0
MK # 2	West of Sevier Co. Airport entrance	90	14.32	47.0
MK # 3	South of cl hwy.70	190	31.00	101.7

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> 3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412. </td> </tr> </table>	Comments	3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412.
Comments			
3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412.			

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NGVD 29
Geoid Datum:	Geoid 96
Latitude	34 2 41.7264792
Longitude	94 24 18.3548952
Ellipsoid Height (M):	78.715
Geoid Height (M):	-27.864

Location Description
From the Arkansas and Oklahoma state line, go east on hwy. 70 for 4.2 miles to the station on the left. Standard alum cap stamped 660024 2012, on a 4 ft.x5/8s rebar.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660024A	Date Monumented 2/23/2012	Monumented By AHTD	County Sevier	Route hwy.70	Job Number: 030412
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	555,741.1691	
Easting (M)	177,325.6680	
Elevation (M)*	103.737	
Northing (SFT)	1,823,294.1523	
Easting (SFT)	581,775.9624	
Elevation (SFT)*	340.344	

Convergence Angle	-1	21	0.0000858
Scale Factor	0.999918494		
Elevation Adjust. Factor	0.9999837205		
Combined Adjust. Factor	0.9999022159		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NE of cl hwy.70	215	24.00	78.7	AZ Mark Station
MK # 2	NW fo gravel dr.	120	5.49	18.0	Geodetic Azimuth
MK # 3	South of fence w/ 5 stran barb	30	3.00	9.8	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> 3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412. </td> </tr> </table>	Comments	3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412.
Comments			
3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412.			

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660025	Date Monumented 2/23/2012	Monumented By AHTD	County Sevier	Route hwy.70	Job Number: 030413
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	560,504.3440	
Easting (M)	206,848.8038	
Elevation (M)*	115.292	
Northing (SFT)	1,838,921.3353	
Easting (SFT)	678,636.4505	
Elevation (SFT)*	378.254	

Convergence Angle	-1	10	17.9588727
Scale Factor	0.999919045		
Elevation Adjust. Factor	0.9999819072		
Combined Adjust. Factor	0.9999009537		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	North of 5 strand barb fence	175	13.71	45.0	
MK # 2	South of cl hwy.70	350	14.94	49.0	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN FROM USGS BM "GAGING STATION" DURING JOB 030413 BY S5112 IN OCT 2012</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN FROM USGS BM "GAGING STATION" DURING JOB 030413 BY S5112 IN OCT 2012
Comments			
DIGITAL LEVELS WERE RAN FROM USGS BM "GAGING STATION" DURING JOB 030413 BY S5112 IN OCT 2012			

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660025A	Date Monumented 2/23/2012	Monumented By AHTD	County Sevier	Route Hwy.70	Job Number: 030413
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	560,511.2030	
Easting (M)	207,538.7616	
Elevation (M)*	113.992	
Northing (SFT)	1,838,943.8385	
Easting (SFT)	680,900.0870	
Elevation (SFT)*	373.989	

Convergence Angle	-1	10	2.8990793
Scale Factor	0.999919048		
Elevation Adjust. Factor	0.9999821113		
Combined Adjust. Factor	0.9999011607		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	North of cl hwy.70	175	15.54	51.0
MK # 2	NW of GR	105	32.00	105.0
MK # 3	SW of Powerpole	62	32.61	107.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN FROM USGS BM "GAGING STATION" DURING JOB 030413 BY S5112 IN OCT 2012</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN FROM USGS BM "GAGING STATION" DURING JOB 030413 BY S5112 IN OCT 2012
Comments			
DIGITAL LEVELS WERE RAN FROM USGS BM "GAGING STATION" DURING JOB 030413 BY S5112 IN OCT 2012			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660026	Date Monumented 2/23/2012	Monumented By AHTD	County Sevier	Route 41	Job Number: 030415
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	542,618.9358	
Easting (M)	180,649.4962	
Elevation (M)*	109.057	
Northing (SFT)	1,780,242.2919	
Easting (SFT)	592,680.8888	
Elevation (SFT)*	357.799	

Convergence Angle	-1	19	40.8447085
Scale Factor	0.999920134		
Elevation Adjust. Factor	0.9999828857		
Combined Adjust. Factor	0.9999030210		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach the station from the junction of highways 41 and 24 in Horatio go south on hwy-41 for 1.05 miles to the station on the right at the crest of a hill. 35 feet west of the center of hwy-41 and 2 feet east of a witness post. The station mark is a 2 1/2 in. cap stamped "660026 2012" set on top of a 5/8 in. by 4 foot long rebar and is 0.20 ft. below the surface.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<p>ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS E 303, F 303, AND G 303 DURING JOB 030415 BY CREW S5112 IN OCT 2012.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660026A	Date Monumented 2/23/2012	Monumented By AHTD	County Sevier	Route 41	Job Number: 030415
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	542,283.5787	
Easting (M)	180,550.1443	
Elevation (M)*	94.758	
Northing (SFT)	1,779,142.0411	
Easting (SFT)	592,354.9318	
Elevation (SFT)*	310.886	

Convergence Angle	-1	19	42.8398975
Scale Factor	0.999920232		
Elevation Adjust. Factor	0.9999851296		
Combined Adjust. Factor	0.9999053628		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach the station from the junction of highways 41 and 24 in Horatio go south on highway 41 for 1.25 miles to the station on the left near a field entrance. 43.3 feet east of the center of hwy-41, 14.1 feet north of the center of a field entrance and 4 feet west of a witness post. The station mark is a 2 1/2 in. cap stamped "660026A 2012" set on top of a 5/8 in. by 4 foot long rebar and is 0.20 ft. below the surface.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						660026
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<p>ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS E 303, F 303, AND G 303 DURING JOB 030415 BY CREW S5112 IN OCT 2012.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660027	Date Monumented 4/11/2017	Monumented By AHTD	County SEVIER	Route US-71	Job Number: 030008
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	538,967.1475	0.0020	
Easting (M)	199,337.0968	0.0020	
Elevation (M)*			
Northing (SFT)	1,768,261.3831		
Easting (SFT)	653,991.7918		
Elevation (SFT)*			

Convergence Angle	-1	12	51.9808164
Scale Factor	0.999921189		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	S END OF SIDE CULVERT	354	11.28	37.0
MK # 2	E END OF CHURCH SIGN	168	7.32	24.0
MK # 3	NE COR OF BRICK CHURCH	226	22.86	75.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP Ref Mon # 2 TXCR Ref Mon # 3 OKHV	GPS DERIVED ELEVATION BASED ON CONSTRAINING AHTD CORS SITE ARHP AND 1ST ORDER NGS BM'S A 303 & A 304 IN FINAL STATIC NETWORK ADJUSTMENT.

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	33	54	1.5876288
Longitude	94	10	11.4232008
Ellipsoid Height (M):	95.614	0.0060	
Geoid Height (M):	-27.421	0.0060	

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF US-71 AND US-371, IN LOCKESBURG, GO SOUTH ON US-71 4.8 MILES TO THE STATION ON THE RIGHT. 58' WEST OF THE C/L OF THE HIGHWAY AND 47' SOUTH OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2½" CAP STAMPED "660027 2017" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 660027A	Date Monumented 4/11/2017	Monumented By AHTD	County SEVIER	Route US-71	Job Number: 030008
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	539,343.5756 0.0020
Easting (M)	199,168.6168 0.0020
Elevation (M)*	
Northing (SFT)	1,769,496.3809
Easting (SFT)	653,439.0370
Elevation (SFT)*	

Convergence Angle	-1	12	55.8244702
Scale Factor	0.999921054		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIBER OPTIC MARKER	188	16.15	53.0
MK # 2	R/W MARKER	195	13.41	44.0
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 2</td> <td>TXCR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>OKHV</td> </tr> </table>	Ref Mon # 1	ARHP	Ref Mon # 2	TXCR	Ref Mon # 3	OKHV	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>GPS DERIVED ELEVATION BASED ON CONSTRAINING AHTD CORS SITE ARHP AND 1ST ORDER NGS BM'S A 303 & A 304 IN FINAL STATIC NETWORK ADJUSTMENT.</td> </tr> </table>	Comments	GPS DERIVED ELEVATION BASED ON CONSTRAINING AHTD CORS SITE ARHP AND 1ST ORDER NGS BM'S A 303 & A 304 IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 1	ARHP								
Ref Mon # 2	TXCR								
Ref Mon # 3	OKHV								
Comments									
GPS DERIVED ELEVATION BASED ON CONSTRAINING AHTD CORS SITE ARHP AND 1ST ORDER NGS BM'S A 303 & A 304 IN FINAL STATIC NETWORK ADJUSTMENT.									

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF US-71 AND US-371, IN LOCKESBURG, GO SOUTH ON US-71 4.5 MILES TO THE STATION ON THE RIGHT. 33.5' WEST OF THE C/L OF THE HIGHWAY AND 7' EAST OF A CONCRETE DITCH. THE MARK IS A STANDARD 2½" CAP STAMPED "660027A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670001	Date Monumented 3/19/1999	Monumented By AHTD	County SHARP	Route 167	Job Number: 050070
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	186,973.5509	
Easting (M)	437,085.6230	
Elevation (M)*	186.541	
Northing (SFT)	613,429.0582	
Easting (SFT)	1,434,005.0815	
Elevation (SFT)*	612.010	

Convergence Angle	0	14	21.8648933
Scale Factor	0.999964512		
Elevation Adjust. Factor	0.9999707265		
Combined Adjust. Factor	0.9999352395		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTH END CMP	231	6.31	20.7	
MK # 2	GATE POST	132	9.56	31.3	
MK # 3	CORNER POST	72	4.37	14.3	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Q 313	Elevation by 3 Wire from NGS point A 167
Ref Mon # 2 FAA 7M9 A	
Ref Mon # 3 BATEPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670001A	Date Monumented 3/19/1999	Monumented By AHTD	County SHARP	Route 167	Job Number: 050070
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	187,425.4850	
Easting (M)	436,973.6380	
Elevation (M)*	168.270	
Northing (SFT)	614,911.7787	
Easting (SFT)	1,433,637.6773	
Elevation (SFT)*	552.066	

Convergence Angle	0	14	19.3061611
Scale Factor	0.999965052		
Elevation Adjust. Factor	0.9999735936		
Combined Adjust. Factor	0.9999386466		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END CMP	9	12.60	41.3
MK # 2	CORNER POST	340	11.30	37.1
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>Q 313</td> </tr> <tr> <td>Ref Mon # 2</td> <td>FAA 7M9 A</td> </tr> <tr> <td>Ref Mon # 3</td> <td>BATEPORT</td> </tr> </table>	Ref Mon # 1	Q 313	Ref Mon # 2	FAA 7M9 A	Ref Mon # 3	BATEPORT	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	Q 313						
Ref Mon # 2	FAA 7M9 A						
Ref Mon # 3	BATEPORT						

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 1 19.2606780
Longitude	91 35 23.2729872
Ellipsoid Height (M):	140.426
Geoid Height (M):	-27.844

Location Description
TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO NORTH ON U.S. HIGHWAY 167 FOR 10.99 KM (6.83 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.25 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167, 15.85 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVEWAY AND 1.51 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "670001A SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	670001
Geodetic Azimuth	166 19 17.89520
Grid Azimuth	166 04 58.60263

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670002	Date Monumented 3/19/1999	Monumented By AHTD	County SHARP	Route 167	Job Number: 050070
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	195,241.8810	
Easting (M)	434,822.9940	
Elevation (M)*	155.100	
Northing (SFT)	640,556.0712	
Easting (SFT)	1,426,581.7728	
Elevation (SFT)*	508.857	

Convergence Angle	0	13	30.0368781
Scale Factor	0.999975201		
Elevation Adjust. Factor	0.9999756603		
Combined Adjust. Factor	0.9999508619		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	326	31.92	104.7
MK # 2	SOUTH END CMP	5	35.53	116.6
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Q 313	Elevation by 3 Wire from NGS point C 166
Ref Mon # 2 FAA 7M9 A	
Ref Mon # 3 BATEPORT	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 5 33.1445508
Longitude	91 36 47.9427876
Ellipsoid Height (M):	127.165
Geoid Height (M):	-27.935

Location Description
<p>TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO NORTH ON U.S. HIGHWAY 167 FOR 19.54 KM (12.14MI) TO THE STATION ON THE LEFT. THE STATION IS 38.75 METERS SOUTH OF A GRAVEL DRIVEWAY, 17.75 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.46 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "670002 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670002A	Date Monumented 3/19/1999	Monumented By AHTD	County SHARP	Route 167	Job Number: 050070
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	195,561.6479	
Easting (M)	434,880.3570	
Elevation (M)*	145.713	
Northing (SFT)	641,605.1732	
Easting (SFT)	1,426,769.9713	
Elevation (SFT)*	478.060	

Convergence Angle	0	13	31.4004765
Scale Factor	0.999975647		
Elevation Adjust. Factor	0.9999771334		
Combined Adjust. Factor	0.9999527810		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST	6	14.20	46.6
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	Q 313
Ref Mon # 2	FAA 7M9 A
Ref Mon # 3	BATEPORT

Comments

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 5 43.5118992
Longitude	91 36 45.5994288
Ellipsoid Height (M):	117.774
Geoid Height (M):	-27.939

Location Description
<p>TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO NORTH ON U.S. HIGHWAY 167 FOR 19.86 KM (12.34 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.40 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 2.90 METERS EAST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "670002A 1999" SET ON TOP OF AN IRON ROD 0.66 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670003	Date Monumented 3/19/1999	Monumented By AHTD	County SHARP	Route 167	Job Number: 050070
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	199,183.2850	
Easting (M)	435,434.9940	
Elevation (M)*	191.661	
Northing (SFT)	653,487.1609	
Easting (SFT)	1,428,589.6428	
Elevation (SFT)*	628.808	

Convergence Angle	0	13	44.6393406
Scale Factor	0.999980883		
Elevation Adjust. Factor	0.9999699230		
Combined Adjust. Factor	0.9999508066		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	184	9.30	30.5
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Q 313	Elevation by 3 Wire from NGS point F 167
Ref Mon # 2 FAA 7M9 A	
Ref Mon # 3 BATEPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670003A	Date Monumented 3/19/1999	Monumented By AHTD	County SHARP	Route 167	Job Number: 050070
---------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	198,778.7409	
Easting (M)	435,504.8650	
Elevation (M)*	191.343	
Northing (SFT)	652,159.9191	
Easting (SFT)	1,428,818.8779	
Elevation (SFT)*	627.764	

Convergence Angle	0	13	46.2276417
Scale Factor	0.999980282		
Elevation Adjust. Factor	0.9999699729		
Combined Adjust. Factor	0.9999502555		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE R/W MARKER	171	23.65	77.6
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	Q 313
Ref Mon # 2	FAA 7M9 A
Ref Mon # 3	BATEPORT

Comments
Elevation by 3 Wire from NGS point E 167

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670004	Date Monumented 3/19/1999	Monumented By AHTD	County SHARP	Route 167	Job Number: 050070
--------------------------	-------------------------------------	------------------------------	------------------------	---------------------	------------------------------

Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	205,894.2950	
Easting (M)	434,107.9980	
Elevation (M)*	239.240	
Northing (SFT)	675,504.8662	
Easting (SFT)	1,424,235.9901	
Elevation (SFT)*	784.907	

Convergence Angle	0	13	14.3594081
Scale Factor	0.999991461		
Elevation Adjust. Factor	0.9999624569		
Combined Adjust. Factor	0.9999539182		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTH END CMP	159	26.92	88.3	AZ Mark Station 670004A
MK # 2	CORNER POST	190	11.04	36.2	Geodetic Azimuth 0 37 34.938096
MK # 3	GUY POLE	353	12.60	41.3	Grid Azimuth 0 24 20.579526

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Q 313	Elevation by 3 Wire from NGS point Q 166
Ref Mon # 2 FAA 7M9 A	
Ref Mon # 3 BATEPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670004A	Date Monumented 3/19/1999	Monumented By AHTD	County SHARP	Route 167	Job Number: 050070
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	206,344.6080	
Easting (M)	434,111.1870	
Elevation (M)*	233.696	
Northing (SFT)	676,982.2681	
Easting (SFT)	1,424,246.4527	
Elevation (SFT)*	766.718	

Convergence Angle	0	13	14.4740732
Scale Factor	0.999992210		
Elevation Adjust. Factor	0.9999633268		
Combined Adjust. Factor	0.9999555371		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF CONCRETE HEADWALL	32	17.80	58.4
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	Q 313
Ref Mon # 2	FAA 7M9 A
Ref Mon # 3	BATEPORT

Comments
Elevation by 3 Wire from NGS point Q 166

Vertical Determined By: LEVEL - Unkown Quality	
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 11 33.4505184
Longitude	91 37 14.6876376
Ellipsoid Height (M):	205.685
Geoid Height (M):	-28.003

Location Description
<p>TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO NORTH ON U.S. HIGHWAY 167 FOR 31.83 KM (19.78 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.40 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 1.24 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "670004A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	670004
Geodetic Azimuth	180 37 35.05444
Grid Azimuth	180 24 20.57953

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670005	Date Monumented 7/9/2003	Monumented By AHTD	County SHARP	Route 62	Job Number: 012157,050064
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	220,224.6367	
Easting (M)	446,983.9970	
Elevation (M)*		
Northing (SFT)	722,520.3289	
Easting (SFT)	1,466,479.9968	
Elevation (SFT)*		

Convergence Angle	0	18	16.0039462
Scale Factor	1.000017654		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	19	1.8397668
Longitude	91	28	36.5059452
Ellipsoid Height:	79.912		
Grid Northing (Meters)	220,224.6220		
Grid Easting (Meters)	446,983.9800		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	15	14.80	48.6
MK # 2	GUY WIRE	2	14.50	47.6
MK # 3	10" CONC CULVERT			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>Q 313</td> </tr> <tr> <td>Ref Mon # 2</td> <td>Q 313A</td> </tr> <tr> <td>Ref Mon # 3</td> <td>BUTLER</td> </tr> </table>	Ref Mon # 1	Q 313	Ref Mon # 2	Q 313A	Ref Mon # 3	BUTLER	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	Q 313						
Ref Mon # 2	Q 313A						
Ref Mon # 3	BUTLER						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	Geoid09
Latitude	36 19 1.8402420
Longitude	91 28 36.5052612
Ellipsoid Height (M):	79.827
Geoid Height (M):	-28.402

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. STATE 412/63/62 IN HARDY, GO EAST ON HIGHWAY 412 FOR 0.6 MILES TO THE FORTY ISLAND CREEK BRIDGE LOG MILE 2.14, GO ACROSS THE BRIDGE AND TURN LEFT ON WOODLAWN HILL ROAD AND GO 0.15 MILES TO THE STATION ON THE RIGHT. 7.9 METERS EAST OF THE CENTERLINE OF WOODLAWN HILL ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "670005 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	670005A
Geodetic Azimuth	14 37 51
Grid Azimuth	14 19 35

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670005A	Date Monumented 7/9/2003	Monumented By AHTD	County SHARP	Route 62	Job Number: 050064
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	220,649.0641	
Easting (M)	447,092.3770	
Elevation (M)*		
Northing (SFT)	723,912.8045	
Easting (SFT)	1,466,835.5735	
Elevation (SFT)*		

Convergence Angle	0	18	18.5848292
Scale Factor	1.000018509		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	EAST END OF WOOD SIGN	205	4.70	15.4		
MK # 2	8" HICKORY	355	10.20	33.5		
MK # 3						

Area Reference Monuments (used for Processing)	
Ref Mon # 1	Q 313
Ref Mon # 2	Q 313A
Ref Mon # 3	BUTLER

Comments

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 19 15.5906544
Longitude	91 28 32.0699856
Ellipsoid Height (M):	81.723
Geoid Height (M):	-28.290

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. STATE 412/63/62 IN HARDY, GO EAST ON HIGHWAY 412 FOR 0.6 MILES TO THE FORTY ISLAND CREEK BRIDGE LOG MILE 2.14, GO ACROSS THE BRIDGE AND TURN LEFT ON WOODLAWN HILL ROAD AND GO 0.40 MILES TO THE STATION ON THE LEFT. 17.0 METERS WEST OF THE CENTERLINE OF WOODLAWN HILL ROAD AND 16.0 METERS NORTH OF THE CENTERLINE OF ROBIN HOOD LANE AND 0.20 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "670005A 2003" ON TOP OF A 0.50 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670006	Date Monumented 12/9/2003	Monumented By AHTD	County SHARP	Route 62	Job Number: 050146
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	214,638.6210	
Easting (M)	439,534.4390	
Elevation (M)*	216.350	
Northing (SFT)	704,193.5424	
Easting (SFT)	1,442,039.2386	
Elevation (SFT)*	709.808	

Convergence Angle	0	15	21.6470942
Scale Factor	1.000006867		
Elevation Adjust. Factor	0.9999660488		
Combined Adjust. Factor	0.9999729155		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 62 AND 63, IN HARDY, GO SOUTHWESTERLY ON STATE HIGHWAY 62 FOR 7.28 MILES TO A PAVED ROAD ON THE RIGHT, (ALLEGHENY DRIVE). THURN RIGHT RIGHT AND GO NORTHERLY ON ALLEGHENY DRIVE FOR 0.71 MILES TO A T-JUNCTION. TURN LEFT AND GO WEST ON A PAVED ROAD FOR 0.08 MILES TO A GATE. PASS THROUGH THE GATE AND CONTINUE WEST ACROSS THE AIRPORT ENTRANCE ROAD FOR 125 FEET TO AN APRON. CONTINUE WEST ACROSS THE APRON FOR 0.07 MILES TO A RUNWAY AND TURN LEFT AND GO 0.24 MILES TO THE STATION ON THE LEFT, A 1 1/2" PLASTIC CAP ON TOP OF THE ORIGINAL SHAFT SET IN A PIECE OF 3X6 ROCK OUTCROP STAMPED "KITTLER PLS". THE STATION IS 30.1 METERS SOUTHEAST FROM THE RUNWAY CENTERLINE AND 0.9 METERS NORTHWEST FROM A CARSONITE WINESS POST.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	RUNWAY LIGHT	0	34.30	112.5	CHERPORT AZ MK	
MK # 2					Geodetic Azimuth	225 17 34
MK # 3					Grid Azimuth	225 02 13

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER	<p>Elevation by 3 Wire from NGS point D 167</p>
Ref Mon # 2 Q 313	
Ref Mon # 3 FAA 7M9 A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670007	Date Monumented 3/25/2008	Monumented By AHTD	County Sharp	Route 62	Job Number: 050187
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	211,454.9130	
Easting (M)	436,270.0870	
Elevation (M)*		
Northing (SFT)	693,748.3271	
Easting (SFT)	1,431,329.4438	
Elevation (SFT)*		

Convergence Angle	0	14	5.2435967
Scale Factor	1.000001049		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Right of Way monument	358	3.65	12.0
MK # 2	Combination pole	007	13.87	45.5
MK # 3	Power pole w/guy	240	16.76	55.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARMH Ref Mon # 3 ARPG	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description
From the junction of U.S. highways 62/412 and 167 on the north side of Ash Flat, go north and east on hwy-62/412 for 0.36 miles to the station on the left at the top of a slope. 96.0 feet northwest of the center of the highway, 85.0 feet southwest of the center of an asphalt drive and 3.0 feet southeast of a witness post. The station mark is a 2 1/2 inch cap stamped "670007 2008" set on top of a 5/8 inch by 4.0 foot rebar and is 0.20 feet below the surface.

AZ Mark Station	670007A
Geodetic Azimuth	224 07 51
Grid Azimuth	223 53 46

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670007A	Date Monumented 3/25/2008	Monumented By AHTD	County Sharp	Route 167	Job Number: 050187
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	210,965.2320	
Easting (M)	435,798.9220	
Elevation (M)*		
Northing (SFT)	692,141.7653	
Easting (SFT)	1,429,783.6299	
Elevation (SFT)*		

Convergence Angle	0	13	54.2174627
Scale Factor	1.000000176		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole w/light	196	17.98	59.0
MK # 2	Power pole w/transformer	156	7.92	26.0
MK # 3	South end of 18in.cmp	034	16.00	52.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARMH Ref Mon # 3 ARPG	

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 14 3.1418484
Longitude	91 36 6.3881892
Ellipsoid Height (M):	168.443
Geoid Height (M):	-28.086

Location Description
From the junction of U.S. highways 62/412 and 167 on the north side of Ash Flat, go south on hwy-167 for 0.20 miles to the station on the left. 43.0 feet southeast of the center of the highway, 59.0 feet southwest of the center of a gravel drive and 13.7 feet northwest of a witness post. The station mark is a 2 1/2 inch cap stamped "670007A 2008" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.

AZ Mark Station	670007
Geodetic Azimuth	44 07 40
Grid Azimuth	43 53 46

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670008	Date Monumented 8/16/2010	Monumented By AHTD	County Sharp	Route 230	Job Number: 050213
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	178,529.5909		
Easting (M)	441,380.5020		
Elevation (M)*	189.737		
Northing (SFT)	585,725.8328		
Easting (SFT)	1,448,095.8636		
Elevation (SFT)*	622.496		

Convergence Angle	0	16	0.7618880
Scale Factor	0.999955338		
Elevation Adjust. Factor	0.9999702249		
Combined Adjust. Factor	0.9999255643		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center of a triple box culvert	261	16.15	53.0
MK # 2	Combination pole	86	18.30	60.0
MK # 3	24 inch culvert	240	2.44	8.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARPG Ref Mon # 3 MONA, MOWS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670008A	Date Monumented 8/16/2010	Monumented By AHTD	County Sharp	Route 230	Job Number: 050213
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	178,496.6409	
Easting (M)	441,872.4120	
Elevation (M)*	186.218	
Northing (SFT)	585,617.7294	
Easting (SFT)	1,449,709.7384	
Elevation (SFT)*	610.950	

Convergence Angle	0	16	12.1791553
Scale Factor	0.999955304		
Elevation Adjust. Factor	0.9999707772		
Combined Adjust. Factor	0.9999260825		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	West end of a guard rail	266	23.77	78.0
MK # 2	Combination pole	230	26.52	87.0
MK # 3	Corner of bridge	64	5.18	17.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	
Ref Mon # 2 ARPG	
Ref Mon # 3 MONA, MOWS	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 56 28.8542616
Longitude	91 32 9.2995152
Ellipsoid Height (M):	158.459
Geoid Height (M):	-27.759

Location Description
<p>To reach the station from the junction of highways 167 and 230 in Cave City go east on hwy-230 for 0.70 miles to the station on the right behind a guard rail. 26.0 feet south of hwy-230 and 5.70 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "670008A 2010" set on top of a 5/8 inch by 2.0 foot long rebar and is 0.20 feet below the surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670009	Date Monumented 9/14/2011	Monumented By AHTD	County sharp	Route 63	Job Number: 012157,050265,050275
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	220,518.4565	
Easting (M)	447,138.4454	
Elevation (M)*	128.974	
Northing (SFT)	723,484.3027	
Easting (SFT)	1,466,986.7163	
Elevation (SFT)*	423.142	

Convergence Angle	0	18	19.6432623
Scale Factor	1.000018245		
Elevation Adjust. Factor	0.9999797602		
Combined Adjust. Factor	0.9999980048		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Edge of rock fill	275	15.25	50.0	
MK # 2	S.E. corner of bridge	330	24.38	80.0	
MK # 3	CL of 63	10	29.87	98.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Elevations est. by digital level by CLS from NGS BM's R313 and O1, during Job 012157. <div style="height: 100px;"></div>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670010	Date Monumented 9/13/2011	Monumented By AHTD	County sharp	Route 63	Job Number: 012157,050266,050275
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	218,609.7165	
Easting (M)	449,855.0987	
Elevation (M)*	116.295	
Northing (SFT)	717,222.0449	
Easting (SFT)	1,475,899.6030	
Elevation (SFT)*	381.544	

Convergence Angle	0	19	22.7648991
Scale Factor	1.000014405		
Elevation Adjust. Factor	0.9999817499		
Combined Adjust. Factor	0.9999961546		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Gravel Driveway	35	4.27	14.0
MK # 2	CL 175	120	17.37	57.0
MK # 3	Edge of sign	310	5.80	19.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation established from NGS BM R313, T313, V313, O1 by crew S5102 in July 2013 during Job 050275.</td> </tr> </table>	Comments	Elevation established from NGS BM R313, T313, V313, O1 by crew S5102 in July 2013 during Job 050275.
Comments			
Elevation established from NGS BM R313, T313, V313, O1 by crew S5102 in July 2013 during Job 050275.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670010A	Date Monumented 9/13/2011	Monumented By AHTD	County sharp	Route 63	Job Number: 012157,050266,050275
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	218,227.9469	
Easting (M)	450,312.5471	
Elevation (M)*	108.089	
Northing (SFT)	715,969.5225	
Easting (SFT)	1,477,400.4149	
Elevation (SFT)*	354.622	

Convergence Angle	0	19	33.3830364
Scale Factor	1.000013649		
Elevation Adjust. Factor	0.9999830376		
Combined Adjust. Factor	0.9999966864		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center of Head Wall stamped 1916 (under railway)	175	9.75	32.0
MK # 2	closest rail	210	9.45	31.0
MK # 3	CL63	20	23.47	77.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Elevation established from NGS BM R313, T313, V313, O1 by crew S5102 in July 2013 during Job 050275.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670011	Date Monumented 9/13/2011	Monumented By AHTD	County sharp	Route 63	Job Number: 012157,050266
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	216,187.3038	
Easting (M)	455,405.6744	
Elevation (M)*	188.644	
Northing (SFT)	709,274.5126	
Easting (SFT)	1,494,110.1168	
Elevation (SFT)*	618.908	

Convergence Angle	0	21	31.8632930
Scale Factor	1.000009638		
Elevation Adjust. Factor	0.9999703965		
Combined Adjust. Factor	0.9999800343		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	concrete pipe under gravel drive	275	15.85	52.0
MK # 2	CL63	210	13.40	44.0
MK # 3	Old concrete sign base	35	7.32	24.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN FROM NGS BM C 317 BY CLS DURING JOB 050266 IN APRIL 2012.</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN FROM NGS BM C 317 BY CLS DURING JOB 050266 IN APRIL 2012.
Comments			
DIGITAL LEVELS WERE RAN FROM NGS BM C 317 BY CLS DURING JOB 050266 IN APRIL 2012.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670011A	Date Monumented 9/13/2011	Monumented By AHTD	County sharp	Route 63	Job Number: 012157,050266
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	215,902.0714	
Easting (M)	455,665.0634	
Elevation (M)*	181.379	
Northing (SFT)	708,338.7126	
Easting (SFT)	1,494,961.1288	
Elevation (SFT)*	595.076	

Convergence Angle	0	21	37.8693160
Scale Factor	1.000009090		
Elevation Adjust. Factor	0.9999715365		
Combined Adjust. Factor	0.9999806262		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Coregated Metal Pipe	330	21.00	68.9	
MK # 2	Concrete Pipe	120	25.60	84.0	
MK # 3	Steel Pipe Fence	230	5.00	16.4	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	DIGITAL LEVELS WERE RAN FROM NGS BM C 317 BY CLS DURING JOB 050266 IN APRIL 2012.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670012	Date Monumented 9/13/2011	Monumented By AHTD	County sharp	Route 63	Job Number: 012157,050266
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	215,552.6281	
Easting (M)	459,102.8799	
Elevation (M)*	119.974	
Northing (SFT)	707,192.2474	
Easting (SFT)	1,506,240.0318	
Elevation (SFT)*	393.614	

Convergence Angle	0	22	57.9676323
Scale Factor	1.000008384		
Elevation Adjust. Factor	0.9999811726		
Combined Adjust. Factor	0.9999895564		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL gravel drive	275	14.94	49.0
MK # 2	Coregated Metal Pipe	250	11.58	38.0
MK # 3	fence	0	7.45	24.4

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN FROM NGS BM W 316 BY CLS DURING JOB 050266 IN APRIL 2012.</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN FROM NGS BM W 316 BY CLS DURING JOB 050266 IN APRIL 2012.
Comments			
DIGITAL LEVELS WERE RAN FROM NGS BM W 316 BY CLS DURING JOB 050266 IN APRIL 2012.			

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670012A	Date Monumented 9/13/2011	Monumented By AHTD	County sharp	Route 63	Job Number: 012157,050266
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	215,587.9901	
Easting (M)	458,425.8684	
Elevation (M)*	106.396	

Northing (SFT)	707,308.2642	
Easting (SFT)	1,504,018.8699	
Elevation (SFT)*	349.069	

Convergence Angle	0	22	42.1891996
Scale Factor	1.000008460		
Elevation Adjust. Factor	0.9999833032		
Combined Adjust. Factor	0.9999917631		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
Starting at the junction of highway 63 and 58 east go west 0.45 miles to the station on the right. The station is a standard alum. cap (stamped 670012A 2011) and is on a 5/8" rebar that's 4 foot long and is 2 foot north of a witness post. And As described above. Lat. 36.1630 Lon. 091.2059				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Light pole	0	6.71	22.0	
MK # 2	The western most driveway to the water wheel gas	85	13.11	43.0	
MK # 3	The eastern most driveway to the water wheel gas	270	17.37	57.0	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> DIGITAL LEVELS WERE RAN FROM NGS BM W 316 BY CLS DURING JOB 050266 IN APRIL 2012. </td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN FROM NGS BM W 316 BY CLS DURING JOB 050266 IN APRIL 2012.
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670013	Date Monumented 9/14/2011	Monumented By AHTD	County sharp	Route 63	Job Number: 012157,050266
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	215,531.3864	
Easting (M)	462,335.7823	
Elevation (M)*	172.518	
Northing (SFT)	707,122.5569	
Easting (SFT)	1,516,846.6458	
Elevation (SFT)*	566.003	

Convergence Angle	0	24	13.3359557
Scale Factor	1.000008302		
Elevation Adjust. Factor	0.9999729270		
Combined Adjust. Factor	0.9999812288		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	15	7.62	25.0
MK # 2	Extended CL of a gravel drive to a 1 1/2 story fra	205	9.45	31.0
MK # 3	CL63	230	11.89	39.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN FROM NGS BMs: S 316, T 316, & RAVEN AZ MK BY CLS DURING JOB 050266 IN APRIL 2012.</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN FROM NGS BMs: S 316, T 316, & RAVEN AZ MK BY CLS DURING JOB 050266 IN APRIL 2012.
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670013A	Date Monumented 9/14/2011	Monumented By AHTD	County sharp	Route 63	Job Number: 012157,050266
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	215,175.7704	
Easting (M)	462,595.1524	
Elevation (M)*	179.560	
Northing (SFT)	705,955.8401	
Easting (SFT)	1,517,697.5958	
Elevation (SFT)*	589.108	

Convergence Angle	0	24	19.3242165
Scale Factor	1.000007627		
Elevation Adjust. Factor	0.9999718219		
Combined Adjust. Factor	0.9999794487		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18" Corrugated Metal Pipe	320	6.71	22.0
MK # 2	Light Pole	165	30.18	99.0
MK # 3	Corner of Rock on house	265	18.90	62.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN FROM NGS BMs: S 316, T 316, & RAVEN AZ MK BY CLS DURING JOB 050266 IN APRIL 2012.</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN FROM NGS BMs: S 316, T 316, & RAVEN AZ MK BY CLS DURING JOB 050266 IN APRIL 2012.
Comments			
DIGITAL LEVELS WERE RAN FROM NGS BMs: S 316, T 316, & RAVEN AZ MK BY CLS DURING JOB 050266 IN APRIL 2012.			

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670014	Date Monumented 7/7/2013	Monumented By AHTD	County SHARP	Route 63	Job Number: 050275
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	218,152.6248	
Easting (M)	453,862.8558	
Elevation (M)*	216.311	
Northing (SFT)	715,722.4032	
Easting (SFT)	1,489,048.3861	
Elevation (SFT)*	709.679	

Convergence Angle	0	20	56.1702225
Scale Factor	1.000013460		
Elevation Adjust. Factor	0.9999660550		
Combined Adjust. Factor	0.9999795145		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	190	24.00	78.7	670014A
MK # 2	POWER POLE WITH LIGHT	164	28.30	92.8	
MK # 3	TELEPHONE BOX	56	28.90	94.8	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Elevation established from NGS BM R313, T313, V313, O1 by crew S5102 in July 2013 during Job 050275.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670014A	Date Monumented 7/7/2013	Monumented By AHTD	County SHARP	Route 63	Job Number: 050275
---------------------------	------------------------------------	------------------------------	------------------------	--------------------	------------------------------

Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	217,754.2111	
Easting (M)	454,190.9933	
Elevation (M)*	210.342	
Northing (SFT)	714,415.2743	
Easting (SFT)	1,490,124.9505	
Elevation (SFT)*	690.097	

Convergence Angle	0	21	3.7658076
Scale Factor	1.000012677		
Elevation Adjust. Factor	0.9999669916		
Combined Adjust. Factor	0.9999796682		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	65	6.20	20.3
MK # 2	SOUTHWEST CORNER OF 1 STORY FRAME HOME	108	20.00	65.6
MK # 3	30 " OAK TREE	347	19.00	62.3

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation established from NGS BM R313, T313, V313, O1 by crew S5102 in July 2013 during Job 050275.</td> </tr> </table>	Comments	Elevation established from NGS BM R313, T313, V313, O1 by crew S5102 in July 2013 during Job 050275.
Comments			
Elevation established from NGS BM R313, T313, V313, O1 by crew S5102 in July 2013 during Job 050275.			

Location Description
<p>TO REACH FROM THE INTERSECTION OF HWY. 63 AND HWY. 63B SOUTH OF HARDY. GO SOUTH ON HWY. 63 FOR 4.6 MILES TO THE STATION ON THE LEFT. THE STATION IS 19 FT. SOUTHWEST OF WITNESS POST, AND 28 FT. SOUTHEAST OF CL OF MAYO ROAD. THE STATION IS A 2 1/2 IN. CAP STAMPED "670014A 2013" SET ON A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670015	Date Monumented 12/4/2013	Monumented By AHTD	County SHARP	Route 115	Job Number: FA6713
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD83 (1997)	
Northing (M)	186,383.6115	
Easting (M)	454,207.1041	
Elevation (M)*	96.262	
Northing (SFT)	611,493.5654	
Easting (SFT)	1,490,177.8074	
Elevation (SFT)*	315.819	

Convergence Angle	0	20	59.6737533
Scale Factor	0.999963712		
Elevation Adjust. Factor	0.9999848936		
Combined Adjust. Factor	0.9999486062		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	68	8.80	28.9
MK # 2	NORTHWEST BRIDGE CORNER	45	25.40	83.3
MK # 3	GUY POLE	261	27.50	90.2

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation based on digital levels from 670015A which was based on static observation from BMs A167, V165, O2 during job FA6713 by crew s5102 in December 2013.</td> </tr> </table>	Comments	Elevation based on digital levels from 670015A which was based on static observation from BMs A167, V165, O2 during job FA6713 by crew s5102 in December 2013.
Comments			
Elevation based on digital levels from 670015A which was based on static observation from BMs A167, V165, O2 during job FA6713 by crew s5102 in December 2013.			

Location Description
TO REACH FROM THE JCT. OF HWY 167 AND 115 IN CAVE CITY. GO EAST ON HWY 115 FOR 11.1 MILES TO THE STATION ON THE LEFT. THE STATION IS 1 FT. SOUTH OF A WITNESS POST, AND 34.8 FT. NORTH OF THE CENTERLINE OF HWY 115. THE STATION MARK IS A 2 1/2 IN ALUMINIUM CAP STAMPED "670015 2013" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

AZ Mark Station	670015A
Geodetic Azimuth	
Grid Azimuth	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670015A	Date Monumented 12/4/2013	Monumented By AHTD	County SHARP	Route 115	Job Number: FA6713
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas North</td> <td>301</td> </tr> <tr> <td>Horizontal Datum</td> <td>NAD83 (1997)</td> </tr> <tr> <td>Northing (M)</td> <td>186,090.1323</td> </tr> <tr> <td>Easting (M)</td> <td>453,775.5811</td> </tr> <tr> <td>Elevation (M)*</td> <td>118.473</td> </tr> <tr> <td>Northing (SFT)</td> <td>610,530.7091</td> </tr> <tr> <td>Easting (SFT)</td> <td>1,488,762.0523</td> </tr> <tr> <td>Elevation (SFT)*</td> <td>388.690</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Convergence Angle</td> <td style="width: 10%;">0</td> <td style="width: 10%;">20</td> <td style="width: 30%;">49.6048781</td> </tr> <tr> <td>Scale Factor</td> <td colspan="3">0.999963372</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td colspan="3">0.9999814081</td> </tr> <tr> <td>Combined Adjust. Factor</td> <td colspan="3">0.9999447808</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;"> SUPERCEDED CONTROL </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas North	301	Horizontal Datum	NAD83 (1997)	Northing (M)	186,090.1323	Easting (M)	453,775.5811	Elevation (M)*	118.473	Northing (SFT)	610,530.7091	Easting (SFT)	1,488,762.0523	Elevation (SFT)*	388.690	Convergence Angle	0	20	49.6048781	Scale Factor	0.999963372			Elevation Adjust. Factor	0.9999814081			Combined Adjust. Factor	0.9999447808			Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Vertical Determined By:</td> <td style="width: 50%;">None</td> </tr> <tr> <td>Elevation Datum:</td> <td></td> </tr> <tr> <td>Geoid Datum:</td> <td>GEOID96</td> </tr> <tr> <td>Latitude</td> <td>36 0 33.1481880</td> </tr> <tr> <td>Longitude</td> <td>91 24 12.5403840</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>90.502</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-27.970</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center;">Location Description</p> <p>TO REACH FROM THE JCT. OF HWY 167 AND 115 IN CAVE CITY. GO EAST ON HWY 115 FOR 10.8 MILES TO THE STATION ON THE LEFT. THE STATION IS 12 FT. SOUTH OF A WITNESS POST, AND 25.3 FT. NORTH OF THE CENTERLINE OF HWY 115. THE STATION MARK IS A 2 1/2 IN. ALUMINIUM CAP STAMPED "670015A 2013" SET ON TOP OF A 5/8 IN BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p> </div>	Vertical Determined By:	None	Elevation Datum:		Geoid Datum:	GEOID96	Latitude	36 0 33.1481880	Longitude	91 24 12.5403840	Ellipsoid Height (M):	90.502	Geoid Height (M):	-27.970
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Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	18" CMP		45	54.80	179.8
MK # 2	POWER POLE		132	23.00	75.5
MK # 3					

AZ Mark Station	670015
Geodetic Azimuth	
Grid Azimuth	

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation based on static observation from BMs A167, V165, O2 during job FA6713 by crew s5102 in December 2013.</td> </tr> </table>	Comments	Elevation based on static observation from BMs A167, V165, O2 during job FA6713 by crew s5102 in December 2013.
Comments			
Elevation based on static observation from BMs A167, V165, O2 during job FA6713 by crew s5102 in December 2013.			

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680001 RESET	3/8/1995	AHTD	ST. FRANCIS	40	11884

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	78,667.4901	
Easting (M)	510,388.5610	
Elevation (M)*	87.483	
Northing (SFT)	258,094.9238	
Easting (SFT)	1,674,499.8039	
Elevation (SFT)*	287.017	

Convergence Angle	0	42	14.3743768
Scale Factor	0.999981355		
Elevation Adjust. Factor	0.9999862713		
Combined Adjust. Factor	0.9999676265		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH HOLE IN TOP OF BRIDGE END	33	17.70	58.1
MK # 2	PUNCH HOLE IN TOP OF BRIDGE END	97	9.40	30.8
MK # 3	PUNCH HOLE IN TOP OF WINGWALL	155	3.10	10.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 GIL 1986 Ref Mon # 2 MORGAN 1954 Ref Mon # 3 NONE	(OLD PN = 92680001 RESET) ELEVATION BY 3-WIRE USING ELEVATION FROM USGS BENCH MARK NO. P-15 1932. EDM DISTANCE FROM THIS STATION TO 92680001A (SET ON JOB R10015) IS 1143.962 FEET.

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 2 10.7063988

Longitude 90 47 24.6499836

Ellipsoid Height (M): 59.599

Geoid Height (M): -27.754

Location Description

AT THE JCT. OF I-40 AND HWY. 1 IN FORREST CITY, THE STATION IS ON I-40 NEAR THE WEST END OF THE OVERPASS IN THE CENTER OF THE MEDIAN, 4.75 METERS NORTH OF THE EDGE OF THE EASTBOUND LANE, 13.70 METERS SOUTH OF THE EDGE OF THE WESTBOUND LANE AND 2.0 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "92680001 1995 RESET" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.10 METERS BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680001A	Date Monumented 5/28/1992	Monumented By AHTD	County ST. FRANCIS	Route 40	Job Number: 11884, R10015
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 78,414.8001		Latitude 35 2 2.9497416
Easting (M) 509,272.8800		Longitude 90 48 8.7857568
Elevation (M)* 82.859		Ellipsoid Height (M): 55.044
		Geoid Height (M): -27.709

Northing (SFT) 257,265.8900		
Easting (SFT) 1,670,839.4405		
Elevation (SFT)* 271.847		

Convergence Angle 0 41 48.6918089		
Scale Factor 0.999981712		
Elevation Adjust. Factor 0.9999869969		
Combined Adjust. Factor 0.9999687091		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks				
Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 PUNCH HOLE IN TOP OF WINGWALL	190	15.11	49.6	AZ Mark Station 92680001
MK # 2 PUNCH HOLE IN TOP OF WINGWALL	259	8.40	27.6	Geodetic Azimuth 77 42 40.98088
MK # 3 PUNCH HOLE IN END OF WINGWALL	337	2.35	7.7	Grid Azimuth 77 00 52.46170

Area Reference Monuments (used for Processing) Ref Mon # 1 GIL Ref Mon # 2 MORGAN Ref Mon # 3 NONE	Comments OLD PN = 92680001A
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680002	Date Monumented 5/28/1992	Monumented By AHTD	County ST. FRANCIS	Route 1	Job Number: 11884, R10015
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Northing (M) 83,647.0891		Geoid Datum:
Easting (M) 507,954.3720		Latitude 35 4 53.2435980
Elevation (M)* 73.377		Longitude 90 48 58.3189020
Northing (SFT) 274,432.1582		Ellipsoid Height (M): 45.555
Easting (SFT) 1,666,513.6355		Geoid Height (M): -27.745
Elevation (SFT)* 240.738		

Convergence Angle	0	41	19.8685149
Scale Factor	0.999974185		
Elevation Adjust. Factor	0.9999884849		
Combined Adjust. Factor	0.9999626702		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NBC IN TELEPHONE POLE	350	6.38	20.9	AZ Mark Station 92680002A AZ. MK.
MK # 2	NBC IN POWER POLE	312	50.74	166.5	Geodetic Azimuth 21 35 12.94121
MK # 3	PUNCH POINT IN TOP OF FIRE HYDRANT	198	67.51	221.5	Grid Azimuth 20 53 53.11909

Area Reference Monuments (used for Processing) Ref Mon # 1 GIL Ref Mon # 2 MORGAN Ref Mon # 3 NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>OLD PN = 92680002</td> </tr> </table>	Comments	OLD PN = 92680002
Comments			
OLD PN = 92680002			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680002A RESET	3/8/1995	AHTD	ST. FRANCIS	1	11884

Zone	Zone Code	Vertical Determined By:
Arkansas North	301	LEVEL - Unkown Quality
Horizontal Datum	NAD 83 (1986)	
Northing (M)	84,486.5081	
Easting (M)	508,279.8300	
Elevation (M)*	80.613	
Northing (SFT)	277,186.1520	
Easting (SFT)	1,667,581.4089	
Elevation (SFT)*	264.478	

Convergence Angle	0	41	27.5765719
Scale Factor	0.999973049		
Elevation Adjust. Factor	0.9999873494		
Combined Adjust. Factor	0.9999603987		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN TELEPHONE POLE	170		4.90	16.1
MK # 2	NBC IN 6" LOCUST	85		27.00	88.6
MK # 3	30" METAL PIPE	315		7.70	25.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	S.A.F. FOR JOB NO. R10015 = 0.999965545 (OLD PN = 92680002A RESET) ELEVATION FOR WAS ARRIVED BY PRECISE METHODS FROM USGS BENCH MARK NO. P-15 1932. EDM DISTANCE FROM THIS STATION TO 92680002A (SET ON JOB R10015) IS 900.326 FEET.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680003A	Date Monumented 5/28/1992	Monumented By AHTD	County ST. FRANCIS	Route 1	Job Number: R10071, R10015
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 90,194.4301		Geoid Datum:
Easting (M) 508,787.2860		Latitude 35 8 25.3642416
Elevation (M)* 77.174		Longitude 90 48 22.3078320
Northing (SFT) 295,912.8928		Ellipsoid Height (M): 50.190
Easting (SFT) 1,669,246.2875		Geoid Height (M): -26.963
Elevation (SFT)* 253.194		

Convergence Angle 0 41 40.8233251	Scale Factor 0.999965752	Location Description TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 306, LOCATED IN COLT, GO NORTH ON STATE HIGHWAY 1 FOR 1.09 KM (0.68 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.288 METERS EAST OF THE CENTER OF STATE HIGHWAY 1, 23.77 METERS SOUTH OF THE CENTER OF THE ENTRANCE TO A SALAVAGE YARD AND 0.61 METERS WEST OF A WITNESS POST. THE SHOT DISTANCE IS 719.381METERS. THIS STATION WAS UPDATED ON 3/6/00.
Elevation Adjust. Factor 0.9999878891	Combined Adjust. Factor 0.9999536415	

SUPERCEDED CONTROL			
Horizontal Datum		Latitude	
Longitude		Ellipsoid Height:	
Grid Northing (Meters)		Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN LIGHT POLE	43	18.82	61.8
MK # 2	NBD IN COMBINATION POLE	285	40.44	132.7
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	3 WIRE LEVEL FROM NGS PT H 175 OLD PN = 92680003A
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 MEM2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680004	Date Monumented 3/8/1995	Monumented By AHTD	County ST. FRANCIS	Route 1	Job Number: 11884,110702
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	68,474.1737	0.0020			
Easting (M)	510,450.1926	0.0020			
Elevation (M)*	69.075				
Northing (SFT)	224,652.3515				
Easting (SFT)	1,674,702.0069				
Elevation (SFT)*	226.624				

Convergence Angle	0	42	12.9155492
Scale Factor	0.999997842		
Elevation Adjust. Factor	0.9999891600		
Combined Adjust. Factor	0.9999870020		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	56	39.9405696
Longitude	90	47	27.1547952
Ellipsoid Height:	41.247		
Grid Northing (Meters)	68,474.4501		
Grid Easting (Meters)	510,450.2450		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARWY	Updated by crew S5102 in 11/2018 during job 110702 by constraining elevation on ARWY
Ref Mon # 2 ZME1	
Ref Mon # 3 ARJB	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680004A	Date Monumented 3/8/1995	Monumented By AHTD	County ST. FRANCIS	Route 1	Job Number: 11884,110702
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	67,954.7138 0.0020
Easting (M)	510,451.1427 0.0020
Elevation (M)*	68.913
Northing (SFT)	222,948.0902
Easting (SFT)	1,674,705.1240
Elevation (SFT)*	226.092

Convergence Angle	0 42 12.7910656
Scale Factor	0.999998750
Elevation Adjust. Factor	0.9999891854
Combined Adjust. Factor	0.9999879354

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34 56 23.0846676		
Longitude	90 47 27.3688116		
Ellipsoid Height:	41.077		
Grid Northing (Meters)	67,954.9830		
Grid Easting (Meters)	510,451.1930		

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AEWY	Updated br crew S5102 in 11/2018 during job 110702.by constraining elevation on ARWY
Ref Mon # 2 ZME1	
Ref Mon # 3 ARJB	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680005	Date Monumented 3/8/1995	Monumented By AHTD	County ST. FRANCIS	Route 70	Job Number: 11884
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	74,115.4831	
Easting (M)	508,413.9910	
Elevation (M)*	67.626	
Northing (SFT)	243,160.5475	
Easting (SFT)	1,668,021.5688	
Elevation (SFT)*	221.870	

Convergence Angle	0	41	27.7848950
Scale Factor	0.999988364		
Elevation Adjust. Factor	0.9999893874		
Combined Adjust. Factor	0.9999777515		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	45	2.65	8.7
MK # 2	24" CONCRETE PIPE	35	6.70	22.0
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 GIL 1986 Ref Mon # 2 MORGAN 1954 Ref Mon # 3 NONE	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>THE ELEVATION AT THE STATION WAS ARRIVED AT BY PRECISE METHODS USING ELEVATION FROM USGS BENCH MARK NO. X-169 1956.</td> </tr> </table>	Comments	THE ELEVATION AT THE STATION WAS ARRIVED AT BY PRECISE METHODS USING ELEVATION FROM USGS BENCH MARK NO. X-169 1956.
Comments			
THE ELEVATION AT THE STATION WAS ARRIVED AT BY PRECISE METHODS USING ELEVATION FROM USGS BENCH MARK NO. X-169 1956.			

Location Description
FROM THE JCT. OF HWY. 70 AND HWY. 1 IN THE TOWN OF FORREST CITY, GO WEST ON HWY. 70 FOR 3.347 KM (2.08 MILES) TO THE STATION ON THE LEFT AND SOUTHWEST OF THE JCT. OF STEWART STREET AND HWY. 70. THE STATION IS 16.30 METERS SOUTH OF THE CENTER OF HWY. 70, 12.30 METERS WEST OF THE CENTER OF STEWART STREET AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "680005 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

AZ Mark Station	680005A
Geodetic Azimuth	01 54 27.99572
Grid Azimuth	01 13 00.20843

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680005A	Date Monumented 3/8/1995	Monumented By AHTD	County ST. FRANCIS	Route N/A	Job Number: 11884
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	74,549.5441	
Easting (M)	508,423.2100	
Elevation (M)*	68.523	
Northing (SFT)	244,584.6293	
Easting (SFT)	1,668,051.8148	
Elevation (SFT)*	224.813	

Convergence Angle	0	41	28.1165664
Scale Factor	0.999987671		
Elevation Adjust. Factor	0.9999892466		
Combined Adjust. Factor	0.9999769178		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	16" ELM TREE	160	18.20	59.7
MK # 2	30" METAL PIPE (DROP INLET)	155	9.40	30.8
MK # 3	30" METAL PIPE (DROP INLET)	205	12.70	41.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	THE ELEVATION AT THE STATION WAS ARRIVED AT BY PRECISE METHODS USING ELEVATION FROM USGS BENCH MARK NO. X-169 1956.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680006	Date Monumented 4/28/1998	Monumented By AHTD	County ST. FRANCIS	Route 38	Job Number: R10010
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	69,311.9841	
Easting (M)	538,336.8770	
Elevation (M)*	62.124	
Northing (SFT)	227,401.0678	
Easting (SFT)	1,766,193.5706	
Elevation (SFT)*	203.818	

Convergence Angle	0	52	52.6359207
Scale Factor	0.999997057		
Elevation Adjust. Factor	0.9999902508		
Combined Adjust. Factor	0.9999873078		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WOODEN CORNER POST	15	1.43	4.7	
MK # 2	TELEPHONE JUNCTION BOX	267	43.29	142.0	
MK # 3	CORNER POST OF A CHAIN LINK FENCE	322	44.28	145.3	

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>DAWSEY</td> </tr> <tr> <td>Ref Mon # 2</td> <td>BRINKLEYPOR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>H 349</td> </tr> </table>	Ref Mon # 1	DAWSEY	Ref Mon # 2	BRINKLEYPOR	Ref Mon # 3	H 349	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3 WIRE FROM NGS POINT K 251</td> </tr> </table>	Comments	ELEVATION BY 3 WIRE FROM NGS POINT K 251
Ref Mon # 1	DAWSEY								
Ref Mon # 2	BRINKLEYPOR								
Ref Mon # 3	H 349								
Comments									
ELEVATION BY 3 WIRE FROM NGS POINT K 251									

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 56 54.6007956
Longitude	90 29 7.7905572
Ellipsoid Height (M):	35.195
Geoid Height (M):	-26.881

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 38 AND U.S. HIGHWAY 79, LOCATED ON THE WEST SIDE OF HUGHES, GO WEST ON STATE HIGHWAY 38 FOR 0.27 KM (0.17 MI) TO THE STATION ON THE RIGHT. THE STATION IS 32.452 METERS EAST OF THE CENTER OF A GRAVEL ENTRANCE TO THE HIGH SCHOOL FOOTBALL FIELD, 13.421 METERS NORTH OF THE CENTER OF STATE HIGHWAY 38 AND 1.22 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "680006 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	680006A
Geodetic Azimuth	271 05 29.20603
Grid Azimuth	270 12 36.66506

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680006A	Date Monumented 4/28/1998	Monumented By AHTD	County ST. FRANCIS	Route 38	Job Number: R10010
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	69,313.9361	
Easting (M)	537,804.8950	
Elevation (M)*	61.450	
Northing (SFT)	227,407.4720	
Easting (SFT)	1,764,448.2263	
Elevation (SFT)*	201.607	

Convergence Angle	0	52	40.4379747
Scale Factor	0.999997039		
Elevation Adjust. Factor	0.9999903566		
Combined Adjust. Factor	0.9999873956		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	221	37.51	123.1
MK # 2	TELEPHONE JUNCTION BOX	263	38.91	127.7
MK # 3	POWER POLE	323	46.73	153.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 DAWSEY Ref Mon # 2 BRINKLEYPORT Ref Mon # 3 H 349	ELEVATION BY 3 WIRE FROM NGS POINT K 251

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680007	Date Monumented 4/28/1998	Monumented By AHTD	County ST. FRANCIS	Route 38	Job Number: R10010
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 67,063.1321		Latitude 34 55 39.1297980
Easting (M) 543,267.2520		Longitude 90 25 54.9155964
Elevation (M)* 61.522		Ellipsoid Height (M): 34.511
Northing (SFT) 220,022.9592		Geoid Height (M): -26.927
Easting (SFT) 1,782,369.3093		
Elevation (SFT)* 201.843		

Convergence Angle	0	54	44.8696922
Scale Factor	1.000001149		
Elevation Adjust. Factor	0.9999903453		
Combined Adjust. Factor	0.9999914943		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	GAS RISER	160	1.95	6.4	AZ Mark Station 680007A
MK # 2	TELEPHONE JUNCTION BOX	285	21.70	71.2	Geodetic Azimuth 109 34 52.65001
MK # 3	COMBINATION POLE = TBM 920	7	24.80	81.4	Grid Azimuth 108 40 07.70160

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>DAWSEY</td> </tr> <tr> <td>Ref Mon # 2</td> <td>BRINKLEYPOR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>H 349</td> </tr> </table>	Ref Mon # 1	DAWSEY	Ref Mon # 2	BRINKLEYPOR	Ref Mon # 3	H 349	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3 WIRE FROM NGS POINT K 251</td> </tr> </table>	Comments	ELEVATION BY 3 WIRE FROM NGS POINT K 251
Ref Mon # 1	DAWSEY								
Ref Mon # 2	BRINKLEYPOR								
Ref Mon # 3	H 349								
Comments									
ELEVATION BY 3 WIRE FROM NGS POINT K 251									

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680007A	Date Monumented 4/28/1998	Monumented By AHTD	County ST. FRANCIS	Route 38	Job Number: R10010
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 66,918.2010		Latitude 34 55 34.2053652
Easting (M) 543,696.2010		Longitude 90 25 38.1080208
Elevation (M)* 60.927		Ellipsoid Height (M): 33.891
Northing (SFT) 219,547.4644		Geoid Height (M): -26.932
Easting (SFT) 1,783,776.6194		
Elevation (SFT)* 199.891		

Convergence Angle	0	54	54.6500057
Scale Factor	1.000001420		
Elevation Adjust. Factor	0.9999904387		
Combined Adjust. Factor	0.9999918586		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	104	22.78	74.8
MK # 2	GAS METER	181	2.31	7.6
MK # 3	GUY POLE = TBM 921	319	45.96	150.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 DAWSEY	ELEVATION BY 3 WIRE FROM NGS POINT K 251
Ref Mon # 2 BRINKLEYPOR	
Ref Mon # 3 H 349	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680008	Date Monumented 3/6/2000	Monumented By AHTD	County ST. FRANCIS	Route 1	Job Number: R10071
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 89,601.9581		Latitude 35 8 6.3000384
Easting (M) 508,379.3030		Longitude 90 48 38.7065052
Elevation (M)* 78.863		Ellipsoid Height (M): 51.893
Northing (SFT) 293,969.0909		Geoid Height (M): -26.956
Easting (SFT) 1,667,907.7633		
Elevation (SFT)* 258.736		

Convergence Angle	0	41	31.2809515
Scale Factor	0.999966467		
Elevation Adjust. Factor	0.9999876240		
Combined Adjust. Factor	0.9999540914		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTHEAST CORNER OF HEADWALL	252	9.60	31.5	AZ Mark Station 92680003A
MK # 2	NONE				Geodetic Azimuth 35 14 37.762868
MK # 3	NONE				Grid Azimuth 34 33 06.429713

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	3 WIRE LEVEL FROM NGS PT H 175
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 MEM2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680009	Date Monumented 12/12/2000	Monumented By AHTD	County ST. FRANCIS	Route 70	Job Number: 110388
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	86,893.9791	
Easting (M)	529,866.9690	
Elevation (M)*		
Northing (SFT)	285,084.6631	
Easting (SFT)	1,738,405.2141	
Elevation (SFT)*		

Convergence Angle	0	49	44.2473926
Scale Factor	0.999970242		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	164	12.60	41.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	DAWSEY
Ref Mon # 3	680006

Comments

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 6 29.1785544
Longitude	90 34 31.5382980
Ellipsoid Height (M):	34.673
Geoid Height (M):	-26.958

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 75 SOUTH LOCATED IN HICKS STATION, GO EAST ON U.S. HIGHWAY 70 FOR 3.669 KM (2.28 MI) TO THE STATION ON THE LEFT. THE STATION IS 30.30 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 70, 5.25 METERS EAST OF THE CENTER OF ST. FRANCIS COUNTY ROAD 447, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "680009 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 578.299 METERS.</p>

AZ Mark Station	680009A
Geodetic Azimuth	70 48 02
Grid Azimuth	69 58 18

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680009A	Date Monumented 12/12/2000	Monumented By AHTD	County ST. FRANCIS	Route 70	Job Number: 110388
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 87,092.0291		Geoid Datum:
Easting (M) 530,410.2720		Latitude 35 6 35.3490372
Elevation (M)* 		Longitude 90 34 9.9725880
Northing (SFT) 285,734.4321		Ellipsoid Height (M): 34.056
Easting (SFT) 1,740,187.7007		Geoid Height (M): -26.962
Elevation (SFT)* 		

Convergence Angle 0 49 56.7964604	Scale Factor 0.999969995
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL	
Horizontal Datum 	
Latitude 	
Longitude 	
Ellipsoid Height: 	
Grid Northing (Meters) 	
Grid Easting (Meters) 	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 75 SOUTH LOCATED IN HICKS STATION, GO EAST ON U.S. HIGHWAY 70 FOR 4.216 KM (2.62 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.90 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 70 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "680009A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 578.299 METERS.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF A CONCRETE HEADWALL	238	11.15	36.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="BRINKLEYPORT"/> Ref Mon # 2 <input type="text" value="DAWSEY"/> Ref Mon # 3 <input type="text" value="680006"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680010	Date Monumented 12/12/2000	Monumented By AHTD	County ST. FRANCIS	Route 50	Job Number: 110390
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	76,490.7261	
Easting (M)	525,078.9310	
Elevation (M)*	60.538	
Northing (SFT)	250,953.3239	
Easting (SFT)	1,722,696.4595	
Elevation (SFT)*	198.615	

Convergence Angle	0	47	50.9091581
Scale Factor	0.999984960		
Elevation Adjust. Factor	0.9999904997		
Combined Adjust. Factor	0.9999754598		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NW CORNER BURNT CANE BAPTIST CHUR	145	24.60	80.7
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	
Ref Mon # 2 DAWSEY	
Ref Mon # 3 680006	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 0 53.8299900
Longitude	90 37 46.3112904
Ellipsoid Height (M):	33.688
Geoid Height (M):	-26.845

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 75, 38, AND 50 LOCATED ABOUT 14.484 KM (9.00 MI) EAST OF FORREST CITY, GO WEST ON HIGHWAY 50 FOR 0.402 KM (0.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.10 METERS SOUTH OF THE CENTER OF HIGHWAY 50 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "680010 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 362.160 METERS. ELEVATION WAS ARRIVED AT ON THIS STATION FROM U.S. ARMY C.O.E. BENCH MARK N 12 87 7V BY 3 WIRE LEVEL RUN BY CREW S5102.</p>

AZ Mark Station	680010A
Geodetic Azimuth	277 04 11
Grid Azimuth	276 16 20

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680010A	Date Monumented 12/12/2000	Monumented By AHTD	County ST. FRANCIS	Route 50	Job Number: 110390
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	76,530.2931	
Easting (M)	524,718.9440	
Elevation (M)*	61.733	
Northing (SFT)	251,083.1366	
Easting (SFT)	1,721,515.4021	
Elevation (SFT)*	202.536	

Convergence Angle	0	47	42.6601221
Scale Factor	0.999984891		
Elevation Adjust. Factor	0.9999903122		
Combined Adjust. Factor	0.9999752033		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	U.S. ARMY C.O.E. BENCH MARK N 1287 7V	122	29.45	96.6	AZ Mark Station 680010
MK # 2	.26 DIAMETER PINE TREE	176	31.40	103.0	Geodetic Azimuth 277 04 11
MK # 3					Grid Azimuth 276 16 20

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>BRINKLEYPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>DAWSEY</td> </tr> <tr> <td>Ref Mon # 3</td> <td>680006</td> </tr> </table>	Ref Mon # 1	BRINKLEYPORT	Ref Mon # 2	DAWSEY	Ref Mon # 3	680006	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	BRINKLEYPORT						
Ref Mon # 2	DAWSEY						
Ref Mon # 3	680006						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680011	Date Monumented 6/29/2010	Monumented By AHTD	County ST. FRANCIS	Route 261	Job Number: 110543
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	72,189.9140				
Easting (M)	500,261.1660				
Elevation (M)*	64.257				
Northing (SFT)	236,843.0762				
Easting (SFT)	1,641,273.5088				
Elevation (SFT)*	210.816				

Convergence Angle	0	38	20.2247471		
Scale Factor	0.999991341				
Elevation Adjust. Factor	0.9999899161				
Combined Adjust. Factor	0.9999812572				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	North west corner of a church sign		86	0.60	2.0
MK # 2	Combination pole		268	6.09	20.0
MK # 3	South end of a 18 inch culvert		309	13.56	44.5

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 ARLR Ref Mon # 3 TN45	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital levels were ran by crew s5103 from NGS BM S 169 & R 169 in July 2010 during JOB 110543.</td> </tr> </table>	Comments	Digital levels were ran by crew s5103 from NGS BM S 169 & R 169 in July 2010 during JOB 110543.
Comments			
Digital levels were ran by crew s5103 from NGS BM S 169 & R 169 in July 2010 during JOB 110543.			

Location Description
To reach the station from the junction of highway 261 and the Union Pacific railroad crossing in Palestine go north on hwy-261 for 0.35 miles to the station on the right in front of the Twin assembly of god church. 52.0 feet east of the center of hwy-261, 42 feet south of a paved driveway and 19.0 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "680011 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680011A	Date Monumented 6/29/2010	Monumented By AHTD	County ST. FRANCIS	Route 261	Job Number: 110543
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	72,536.0241				
Easting (M)	500,057.7050				
Elevation (M)*	64.915				
Northing (SFT)	237,978.6057				
Easting (SFT)	1,640,605.9872				
Elevation (SFT)*	212.974				

Convergence Angle	0	38	15.6456370
Scale Factor	0.999990768		
Elevation Adjust. Factor	0.9999898129		
Combined Adjust. Factor	0.9999805810		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Light pole with arm		347	7.62	25.0
MK # 2	Concrete right of way marker		251	9.14	30.0
MK # 3	Northeast corner of a cafe		193	35.97	118.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 ARLR Ref Mon # 3 TN45	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital levels were ran by crew s5103 from NGS BM S 169 & R 169 in July 2010 during JOB 110543.</td> </tr> </table>	Comments	Digital levels were ran by crew s5103 from NGS BM S 169 & R 169 in July 2010 during JOB 110543.
Comments			
Digital levels were ran by crew s5103 from NGS BM S 169 & R 169 in July 2010 during JOB 110543.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680012	Date Monumented 6/16/2010	Monumented By AHTD	County ST. FRANCIS	Route 38	Job Number: 110543
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	80,303.7181				
Easting (M)	519,542.4800				
Elevation (M)*	61.524				
Northing (SFT)	263,463.1151				
Easting (SFT)	1,704,532.2865				
Elevation (SFT)*	201.849				

Convergence Angle	0	45	45.0122091
Scale Factor	0.999979116		
Elevation Adjust. Factor	0.9999903450		
Combined Adjust. Factor	0.9999694612		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Power pole	237	20.73	68.0	AZ Mark Station 680012A
MK # 2	Power pole	307	24.38	80.0	Geodetic Azimuth 180 51 29
MK # 3	36 inch pine tree	0	42.06	138.0	Grid Azimuth 180 05 44

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG	Digital levels were ran by crew s5103 from NGS BM G 170 in July 2010 during JOB 110543
Ref Mon # 2 ARLR	
Ref Mon # 3 TN45	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680012A	Date Monumented 6/16/2010	Monumented By AHTD	County ST. FRANCIS	Route 38	Job Number: 110543
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Level
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 79,621.3681		Latitude 35 2 37.8566772
Easting (M) 519,541.3410		Longitude 90 41 23.0698032
Elevation (M)* 61.405		Ellipsoid Height (M): 34.524
		Geoid Height (M): -26.860

Northing (SFT) 261,224.4385		
Easting (SFT) 1,704,528.5496		
Elevation (SFT)* 201.459		

Convergence Angle	0	45	44.7775685
Scale Factor	0.999980114		
Elevation Adjust. Factor	0.9999903637		
Combined Adjust. Factor	0.9999704779		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

To reach the station from the junction of highways 38 and 70 go south on hwy-38 for 1.10 miles to the station on the left at a field road east. 27 feet north of the field entrance, 28.0 feet east of the center of hwy-38 and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "680012A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18 inch CMP	209	5.79	19.0
MK # 2	East end of 18 inch steel culvert	349	14.02	46.0
MK # 3				

AZ Mark Station 680012	
Geodetic Azimuth 0 51 29	
Grid Azimuth 0 05 44	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG	Digital levels were ran by crew s5103 from NGS BM G 170 in July 2010 during JOB 110543
Ref Mon # 2 ARLR	
Ref Mon # 3 TN45	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680013	Date Monumented 6/16/2010	Monumented By AHTD	County ST. FRANCIS	Route 70	Job Number: 110543
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	89,384.0231	
Easting (M)	537,678.4640	
Elevation (M)*	62.218	
Northing (SFT)	293,254.0825	
Easting (SFT)	1,764,033.4273	
Elevation (SFT)*	204.128	

Convergence Angle	0	52	44.6002542
Scale Factor	0.999967231		
Elevation Adjust. Factor	0.9999902360		
Combined Adjust. Factor	0.9999574673		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	center of drop inlet	180	2.59	8.5
MK # 2	West end of a 18 inch cmp	251	13.56	44.5
MK # 3	Southwest end of post office	0	19.51	64.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG Ref Mon # 2 ARLR Ref Mon # 3 TN45	Digital levels were ran by crew s5103 from NGS BM H 173 in july 2010 during JOB 110543. H 173 is a height mod stations so the superceded elev was utilized.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680013A	Date Monumented 6/16/2010	Monumented By AHTD	County ST. FRANCIS	Route 149	Job Number: 110543
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	88,793.9141	
Easting (M)	537,992.1200	
Elevation (M)*	61.743	
Northing (SFT)	291,318.0332	
Easting (SFT)	1,765,062.4804	
Elevation (SFT)*	202.567	

Convergence Angle	0	52	51.6000951
Scale Factor	0.999967972		
Elevation Adjust. Factor	0.9999903107		
Combined Adjust. Factor	0.9999582830		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone box	105	16.15	53.0
MK # 2	North end of 18 inch culvert	88	7.16	23.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG	Digital levels were ran by crew s5103 from NGS BM H 173 in july 2010 during JOB 110543. H 173 is a height mod stations so the superceded elev was utilized.
Ref Mon # 2 ARLR	
Ref Mon # 3 TN45	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680014	Date Monumented 2/9/2012	Monumented By AHTD	County ST. FRANCIS	Route 261	Job Number: 110573
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	81,997.5662	
Easting (M)	502,730.3807	
Elevation (M)*	66.183	
Northing (SFT)	269,020.3484	
Easting (SFT)	1,649,374.5907	
Elevation (SFT)*	217.135	

Convergence Angle	0	39	19.4431688
Scale Factor	0.999976392		
Elevation Adjust. Factor	0.9999896138		
Combined Adjust. Factor	0.9999660061		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	east of a field entrance		270		3.05	10.0
MK # 2	south of the centerline of highway 261		0		8.23	27.0
MK # 3	south east of a power pole with guide wire		310		32.93	108.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3 wire levels completed by Garver 1/2013 from NGS points P 15 and RV 219</td> </tr> </table>	Comments	3 wire levels completed by Garver 1/2013 from NGS points P 15 and RV 219
Comments			
3 wire levels completed by Garver 1/2013 from NGS points P 15 and RV 219			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680014A	Date Monumented 2/9/2012	Monumented By AHTD	County ST. FRANCIS	Route 261	Job Number: 110573
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - 3 Wire Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 81,995.7890		Geoid Datum: GEIOD09
Easting (M) 502,308.4204		Latitude 35 4 1.8071148
Elevation (M)* 64.942		Longitude 90 52 41.9251404
Northing (SFT) 269,014.5177		Ellipsoid Height (M): 37.967
Easting (SFT) 1,647,990.2093		Geoid Height (M): -26.960
Elevation (SFT)* 213.064		

Convergence Angle	0	39	9.7522398
Scale Factor	0.999976388		
Elevation Adjust. Factor	0.9999898086		
Combined Adjust. Factor	0.9999661968		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	north of the centerline of highway 261	180	7.32	24.0	AZ Mark Station
MK # 2	east of th centerline of county road 251	270	17.98	59.0	Geodetic Azimuth
MK # 3	west of gravel driveway	90	22.25	73.0	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px; vertical-align: top;">3 wire levels completed by Garver 1/2013 from NGS points P 15 and RV 219</td> </tr> </table>	Comments	3 wire levels completed by Garver 1/2013 from NGS points P 15 and RV 219
Comments			
3 wire levels completed by Garver 1/2013 from NGS points P 15 and RV 219			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680015	Date Monumented 4/13/2020	Monumented By RASBURY	County ST. FRANCIS	Route 75	Job Number: 110717
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	83,465.2698	0.0040			
Easting (M)	525,914.4894	0.0040			
Elevation (M)*					
Northing (SFT)	273,835.6393				
Easting (SFT)	1,725,437.7873				
Elevation (SFT)*					

Convergence Angle	0	48	12.3296757
Scale Factor	0.999974757		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARJB	
Ref Mon # 2: ARLR, ARPB	
Ref Mon # 3: ARWY, MSGN	

Vertical Determined By: GPS - Unknown Quality	Elevation Datum: NAVD 88
Geoid Datum: Geoid 18	
Latitude	35 4 39.7545528
Longitude	90 37 9.4998972
Ellipsoid Height (M):	34.033 0.0160
Geoid Height (M):	-27.025 0.0160

Location Description
<p>TO REACH THE MARK FROM THE INTERSECTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 75, GO SOUTH ON HIGHWAY 75 APPROXIMATELY 1.3 MILES AND THE MONUMENT IS APPROXIMATELY 33' LEFT OF THE CENTERLINE OF THE HIGHWAY</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680015A	Date Monumented 4/13/2020	Monumented By RASBURY	County ST. FRANCIS	Route 75	Job Number: 110717
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	83,048.8982	0.0030			
Easting (M)	525,918.2734	0.0040			
Elevation (M)*					
Northing (SFT)	272,469.5935				
Easting (SFT)	1,725,450.2020				
Elevation (SFT)*					

Convergence Angle	0	48	12.2824812
Scale Factor	0.999975334		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						680015
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARJB	
Ref Mon # 2: ARLR, ARPB	
Ref Mon # 3: ARWY, MSGN	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680016	Date Monumented 4/13/2020	Monumented By RASBURY	County ST. FRANCIS	Route 50	Job Number: 110717
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	77,451.3803	0.0030			
Easting (M)	535,904.3531	0.0030			
Elevation (M)*					
Northing (SFT)	254,105.0702				
Easting (SFT)	1,758,212.8651				
Elevation (SFT)*					

Convergence Angle	0	51	59.6797771
Scale Factor	0.999983722		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	
Ref Mon # 2 ARLR, ARPB	
Ref Mon # 3 ARWY, MSGN	

Vertical Determined By: GPS - Unknown Quality	Elevation Datum: NAVD 88
Geoid Datum: Geoid 18	
Latitude	35 1 19.8990696
Longitude	90 30 38.7962676
Ellipsoid Height (M):	34.162 0.0140
Geoid Height (M):	-27.023 0.0140

Location Description
<p>TO REACH THE MARK FROM THE INTERSECTION OF STATE HIGHWAY 149 AND STATE HIGHWAY 50, GO WEST ON HIGHWAY 50 APPROXIMATELY 1.3 MILES AND THE MONUMENT IS APPROXIMATELY 28' RIGHT OF THE CENTERLINE OF THE HIGHWAY</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680016A	Date Monumented 4/13/2020	Monumented By RASBURY	County ST. FRANCIS	Route 50	Job Number: 110717
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	77,437.2830	0.0030			
Easting (M)	536,307.5422	0.0030			
Elevation (M)*					
Northing (SFT)	254,058.8193				
Easting (SFT)	1,759,535.6614				
Elevation (SFT)*					

Convergence Angle	0	52	8.9286432
Scale Factor	0.999983753		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	
Ref Mon # 2 ARLR, ARPB	
Ref Mon # 3 ARWY, MSGN	

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	1	19.2434916
Longitude	90	30	22.9019904
Ellipsoid Height (M):	34.368	0.0140	
Geoid Height (M):	-27.026	0.0140	

Location Description
<p>TO REACH THE MARK FROM THE INTERSECTION OF STATE HIGHWAY 149 AND STATE HIGHWAY 50, GO WEST ON HIGHWAY 50 APPROXIMATELY 1.0 MILES AND THE MONUMENT IS APPROXIMATELY 28' RIGHT OF THE CENTERLINE OF THE HIGHWAY</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680017	Date Monumented 4/13/2020	Monumented By RASBURY	County ST. FRANCIS	Route 357	Job Number: 110717
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	85,096.8851	0.0030			
Easting (M)	541,707.6882	0.0040			
Elevation (M)*					
Northing (SFT)	279,188.6972				
Easting (SFT)	1,777,252.6404				
Elevation (SFT)*					

Convergence Angle	0	54	15.6433474
Scale Factor	0.999972854		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					680017A	
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARJB	
Ref Mon # 2: ARLR, ARPB	
Ref Mon # 3: ARWY, MSGN	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680017A	Date Monumented 4/13/2020	Monumented By RASBURY	County ST. FRANCIS	Route 357	Job Number: 110717
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	85,500.1769	0.0030			
Easting (M)	541,704.0736	0.0040			
Elevation (M)*					
Northing (SFT)	280,511.8304				
Easting (SFT)	1,777,240.7815				
Elevation (SFT)*					

Convergence Angle	0	54	15.7065507
Scale Factor	0.999972313		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE MARK FROM THE INTERSECTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 357, GO SOUTH ON HIGHWAY 357 APPROXIMATELY 2.9 MILES AND THE MONUMENT IS APPROXIMATELY 36' RIGHT OF THE CENTERLINE OF THE HIGHWAY</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						680017
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)		<div style="border: 1px solid black; height: 100px; margin: 5px;"></div>
Ref Mon # 1	ARJB	
Ref Mon # 2	ARLR, ARPB	
Ref Mon # 3	ARWY, MSGN	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690001	Date Monumented 10/23/1995	Monumented By AHTD	County Stone	Route 5	Job Number: R50116,R50089
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	161,850.2639	
Easting (M)	402,369.0980	
Elevation (M)*	371.220	
Northing (SFT)	531,003.7408	
Easting (SFT)	1,320,105.9490	
Elevation (SFT)*	1,217.911	

Convergence Angle	0	0	54.9024271
Scale Factor	0.999942500		
Elevation Adjust. Factor	0.9999417469		
Combined Adjust. Factor	0.9998842502		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>FROM THE JCT. OF HWYS. 5, 14 AND 9 ON THE EAST SIDE OF MOUNTAIN VIEW, GO EASTERLY ON HWYS. 5 AND 14 FOR 2.66 KM (1.65 MILES) TO THE JCT. WITH HWY. 5 SOUTH ON THE RIGHT, TURN RIGHT AND GO SOUTHERLY ON HWY. 5 FOR 8.05 KM (5.00 MILES) TO A BRIDGE OVER "COVE PRONG CREEK", CONTINUE AHEAD ON HWY. 5 FOR 6.68 KM (4.15 MILES) TO THE STATION ON THE LEFT. THE STATION IS 22.7 METERS EAST-SOUTHEAST OF A FIELD ENTRANCE, 11.8 METERS NORTH-NORTHEAST OF THE CENTER OF HWY. 5, 0.61 METERS SOUTH-SOUTHWEST OF A WITNESS POST AND 0.78 METERS SOUTH-SOUTHWEST OF A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "690001 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	MOST EASTERLY WOODEN GATE POST	300	20.35	66.8	
MK # 2	WOODEN FENCE POST	320	2.40	7.9	
MK # 3	WOODEN FENCE POST	96	2.35	7.7	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR, ARBT, ARHR	
Ref Mon # 2 690006, N 42	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690001A	Date Monumented 10/23/1995	Monumented By AHTD	County Stone	Route 5	Job Number: R50116,R50089
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	161,655.9169
Easting (M)	402,701.3290
Elevation (M)*	379.542
Northing (SFT)	530,366.1207
Easting (SFT)	1,321,195.9436
Elevation (SFT)*	1,245.214

Convergence Angle	0	1	2.6003158
Scale Factor	0.999942390		
Elevation Adjust. Factor	0.9999404410		
Combined Adjust. Factor	0.9998828345		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>FROM THE JCT. OF HWYS. 5, 9 AND 14 ON THE EAST SIDE OF MOUNTAIN VIEW, GO EASTERLY ON HWYS. 5 AND 14 FOR 2.66 KM (1.65 MILES) TO THE JCT WITH HWY. 5 SOUTH ON THE RIGHT, TURN RIGHT AND GO SOUTHERLY ON HWY. 5 FOR 8.05 KM (5.0 MILES) TO A BRIDGE OVER "COVE PRONG CREEK", CONTINUE SOUTHERLY ON HWY. 5 FOR 7.08 KM (4.40 MILES) TO THE STATION ON THE LEFT. THE STATION IS 11.5 METERS NORTH-NORTHEAST OF THE CENTER OF HWY. 5 AND 0.83 METERS SOUTH-SOUTHWEST OF A WITNESS POST SET NEAR A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "690001A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	16" (0.40 M) CEDAR TREE	104	24.00	78.7
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARBA, ARLR, ARHR</p> <p>Ref Mon # 2 690006, N 42</p> <p>Ref Mon # 3 </p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690002	Date Monumented 10/23/1995	Monumented By AHTD	County Stone	Route 5	Job Number: R50116,R50089
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Geoid Datum:		
Northing (M) 163,693.3999		Latitude 35 48 31.7251116
Easting (M) 397,238.3500		Longitude 92 1 50.0067660
Elevation (M)* 206.266		Ellipsoid Height (M): 178.807
		Geoid Height (M): -27.459

Northing (SFT) 537,050.7628		
Easting (SFT) 1,303,272.8200		
Elevation (SFT)* 676.724		

Convergence Angle	0	1	4.0128412
Scale Factor	0.999943591		
Elevation Adjust. Factor	0.9999676312		
Combined Adjust. Factor	0.9999112240		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

FROM THE JCT. OF HWYS. 5, 14 AND 9 ON THE EAST SIDE OF MOUNTAIN VIEW, GO EASTERLY ON HWYS. 5 AND 14 FOR 2.66 KM (1.65 MILES) TO THE JCT WITH HWY. 5 SOUTH ON THE RIGHT, TURN RIGHT AND GO SOUTHERLY ON HWY. 5 FOR 8.05 KM (5.0 MILES) TO A BRIDGE OVER "COVE PRONG CREEK" AND THE STATION ON THE LEFT NEAR THE NORTHEAST CORNER OF THE BRIDGE. THE STATION IS 7.30 METERS EAST-NORTHEAST OF THE CENTER OF HWY. 5, 2.70 METERS NORTH OF THE NORTHEAST CORNER OF THE BRIDGE AND 0.86 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "690002 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUARD RAIL POST	335	2.40	7.9
MK # 2	GUARD RAIL POST	241	0.50	1.6
MK # 3	GUARD RAIL POST	174	12.45	40.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBA, ARLR, ARHR	
Ref Mon # 2 690006, N 42	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690004	Date Monumented 10/23/1995	Monumented By AHTD	County Stone	Route 5	Job Number: R50116,R50089
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	168,850.7390	
Easting (M)	392,610.3350	
Elevation (M)*		
Northing (SFT)	553,971.1329	
Easting (SFT)	1,288,089.0741	
Elevation (SFT)*		

Convergence Angle	0	2	51.3858266
Scale Factor	0.999947088		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	GUY POLE	303	8.90	29.2		690004A
MK # 2	COMBINATION POLE	99	16.30	53.5		298 44 51
MK # 3	WEST CORNER OF A 1.7M X 1.7M X 1.0M W ALL	115	5.15	16.9		298 47 42

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBA, ARLR, ARHR	
Ref Mon # 2 690006, N 42	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690004A	Date Monumented 10/23/1995	Monumented By AHTD	County Stone	Route 5	Job Number: R50116,R50089
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	169,056.9539	
Easting (M)	392,235.1550	
Elevation (M)*		
Northing (SFT)	554,647.6896	
Easting (SFT)	1,286,858.1710	
Elevation (SFT)*		

Convergence Angle	0	3	0.0914114
Scale Factor	0.999947241		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	FIRE HYDRANT	270	3.45	11.3		690004
MK # 2	SOUTHEAST CORNER OF BRICK SIGN BASE	325	28.40	93.2		118 44 42
MK # 3	22" (0.55 METER) BLACK WALNUT TREE	10	26.80	87.9		118 47 42

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBA, ARLR, ARHR	
Ref Mon # 2 690006, N 42	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690005	Date Monumented 11/9/2004	Monumented By AHTD	County STONE	Route 263	Job Number: 050164
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	177,383.8940	
Easting (M)	367,993.4790	
Elevation (M)*	276.611	
Northing (SFT)	581,966.9922	
Easting (SFT)	1,207,325.2724	
Elevation (SFT)*	907.515	

Convergence Angle	0	12	23.0255377
Scale Factor	0.999954269		
Elevation Adjust. Factor	0.9999565926		
Combined Adjust. Factor	0.9999108636		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole #110	341	27.80	91.2
MK # 2	NW corner of rock post	152	28.55	93.7
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input type="text" value="Butler"/> Ref Mon # 2 <input type="text" value="Tri County"/> Ref Mon # 3 <input type="text" value="640009"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 55 54.0810732
Longitude	92 21 16.8974928
Ellipsoid Height (M):	248.774
Geoid Height (M):	-27.836

Location Description
<p>To reach the station from the junction of State highways 66 and 263 in Timbo, Ar. Go north on highway 263 for 5.90 miles to the station on the right near a gravel drive and gate. 9.50 meters Northeast of the center of hwy-263 and 2.20 meters Southwest of a witness post. The station mark is a standard 64mm cap stamped "690005 2004" set on top of an iron rod 1.22 meters long and is just below the grounds surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690005A	Date Monumented 11/9/2004	Monumented By AHTD	County STONE	Route 263	Job Number: 050164
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Geoid Datum:		
Northing (M) 176,998.3989		Latitude 35 55 41.5925652
Easting (M) 368,158.9900		Longitude 92 21 10.2393900
Elevation (M)* 286.924		Ellipsoid Height (M): 259.095
		Geoid Height (M): -27.829

Northing (SFT) 580,702.2471		
Easting (SFT) 1,207,868.2864		
Elevation (SFT)* 941.350		

Convergence Angle	0	12	19.1511934
Scale Factor	0.999953905		
Elevation Adjust. Factor	0.9999549743		
Combined Adjust. Factor	0.9999088814		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Wooden gate post	136	1.80	5.9
MK # 2	Four inch Cedar tree	15	3.80	12.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Butler	
Ref Mon # 2 Tri County	
Ref Mon # 3 640009	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690006	Date Monumented 12/5/2008	Monumented By AHTD	County STONE	Route 87	Job Number: 050164
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	170,293.5589	
Easting (M)	389,033.0110	
Elevation (M)*	228.093	
Northing (SFT)	558,704.7845	
Easting (SFT)	1,276,352.4703	
Elevation (SFT)*	748.335	

Convergence Angle	0	4	14.3946087
Scale Factor	0.999948182		
Elevation Adjust. Factor	0.9999642061		
Combined Adjust. Factor	0.9999123899		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Guy Pole	14	12.04	39.5
MK # 2	Guy Pole	234	15.54	51.0
MK # 3	Combination pole with guy wire	312	17.92	58.8

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARHR Ref Mon # 3 ARBT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 52 5.6752608
Longitude	92 7 17.1799104
Ellipsoid Height (M):	200.500
Geoid Height (M):	-27.593

Location Description
The station mark is located 54.0 feet northwest of the intersection of highways 66 and 87 in the center of Mountain View. 34.8 feet northwest of the center of hwy-66 and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "690006 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690007	Date Monumented 10/5/2009	Monumented By AHTD	County Stone	Route 5	Job Number: R50116,R50089
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td>GPS - Unknown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td>NONE</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td>35 48 19.7715168</td> </tr> <tr> <td>Longitude</td> <td>91 59 45.0961980</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>352.737</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-27.445</td> </tr> </table>	Vertical Determined By:	GPS - Unknown Quality	Elevation Datum:	NONE	Geoid Datum:		Latitude	35 48 19.7715168	Longitude	91 59 45.0961980	Ellipsoid Height (M):	352.737	Geoid Height (M):	-27.445
Vertical Determined By:	GPS - Unknown Quality															
Elevation Datum:	NONE															
Geoid Datum:																
Latitude	35 48 19.7715168															
Longitude	91 59 45.0961980															
Ellipsoid Height (M):	352.737															
Geoid Height (M):	-27.445															
Horizontal Datum NAD 83 (1997)																
Northing (M)	163,324.5789															
Easting (M)	400,374.1660															
Elevation (M)*	380.182															
Northing (SFT)	535,840.7226	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Location Description</th> </tr> <tr> <td colspan="2" style="padding: 5px;"> To reach the station from the junction of highways 5 and 14 on the east side of Mountain View, go south on hwy-5 for 7.40 miles to the Iron Mt. Fire station and the station on the left. 21.0 feet north of the center of hwy-5, 105 feet southwest of the southeast corner of the fire station, 40.50 feet east of the driveway to the station and 4.20 feet southwest of a witness post. The station mark is a 2 1/2 in. cap stamped "690007 2009" set on top of a 5/8 inch by 1.80 foot long rebar and is 0.20 feet below the surface. </td> </tr> </table>	Location Description		To reach the station from the junction of highways 5 and 14 on the east side of Mountain View, go south on hwy-5 for 7.40 miles to the Iron Mt. Fire station and the station on the left. 21.0 feet north of the center of hwy-5, 105 feet southwest of the southeast corner of the fire station, 40.50 feet east of the driveway to the station and 4.20 feet southwest of a witness post. The station mark is a 2 1/2 in. cap stamped "690007 2009" set on top of a 5/8 inch by 1.80 foot long rebar and is 0.20 feet below the surface.											
Location Description																
To reach the station from the junction of highways 5 and 14 on the east side of Mountain View, go south on hwy-5 for 7.40 miles to the Iron Mt. Fire station and the station on the left. 21.0 feet north of the center of hwy-5, 105 feet southwest of the southeast corner of the fire station, 40.50 feet east of the driveway to the station and 4.20 feet southwest of a witness post. The station mark is a 2 1/2 in. cap stamped "690007 2009" set on top of a 5/8 inch by 1.80 foot long rebar and is 0.20 feet below the surface.																
Easting (SFT)	1,313,560.9096															
Elevation (SFT)*	1,247.314															
Convergence Angle	0 0 8.6725094															
Scale Factor	0.999943366															
Elevation Adjust. Factor	0.9999403406	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">SUPERCEDED CONTROL</th> </tr> <tr> <td style="width: 60%;">Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	SUPERCEDED CONTROL		Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)	
SUPERCEDED CONTROL																
Horizontal Datum																
Latitude																
Longitude																
Ellipsoid Height:																
Grid Northing (Meters)																
Grid Easting (Meters)																
Combined Adjust. Factor	0.9998837100															

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Power pole		53	8.17	26.8
MK # 2	Guy wire		25	8.65	28.4
MK # 3	Fire hydrant		328	33.22	109.0

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>ARBA, ARLR, ARHR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>690006, N 42</td> </tr> <tr> <td>Ref Mon # 3</td> <td></td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARBA, ARLR, ARHR	Ref Mon # 2	690006, N 42	Ref Mon # 3		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARBA, ARLR, ARHR										
Ref Mon # 2	690006, N 42										
Ref Mon # 3											
Comments											

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690007A	Date Monumented 10/5/2009	Monumented By AHTD	County Stone	Route 5	Job Number: R50116,R50089
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Vertical Determined By:</td> <td colspan="2">GPS - Unknown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NONE</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>48 11.1000384</td> </tr> <tr> <td>Longitude</td> <td>91</td> <td>59 25.2067056</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>362.152</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-27.442</td> <td></td> </tr> </table>	Vertical Determined By:	GPS - Unknown Quality		Elevation Datum:	NONE		Geoid Datum:			Latitude	35	48 11.1000384	Longitude	91	59 25.2067056	Ellipsoid Height (M):	362.152		Geoid Height (M):	-27.442	
Vertical Determined By:	GPS - Unknown Quality																						
Elevation Datum:	NONE																						
Geoid Datum:																							
Latitude	35		48 11.1000384																				
Longitude	91		59 25.2067056																				
Ellipsoid Height (M):	362.152																						
Geoid Height (M):	-27.442																						
Horizontal Datum NAD 83 (1997)																							
Northing (M)	163,057.3660																						
Easting (M)	400,873.5260																						
Elevation (M)*	389.594																						
Northing (SFT)	534,964.0416																						
Easting (SFT)	1,315,199.2266																						
Elevation (SFT)*	1,278.193																						

Convergence Angle	0 0 20.2461877
Scale Factor	0.999943205
Elevation Adjust. Factor	0.9999388637
Combined Adjust. Factor	0.9998820722

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

To reach the station from the junction of highways 5 and 14 on the east side of Mountain View, go south on hwy-5 for 7.70 miles to the top of a hill and the station on the right. 16.50 feet southwest of the center of hwy-5, 133 feet northwest of the northwest corner of a brick house, 123 feet northwest of the center of a driveway and 20.00 feet northeast of a witness post. The station mark is a 2 1/2 in. cap stamped "690007A 2009" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Princess tree	148	13.11	43.0	690007
MK # 2	telephone box	215	30.02	98.5	298 09 27
MK # 3	Combination pole	180	43.58	143.0	298 09 06

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBA, ARLR, ARHR	
Ref Mon # 2 690006, N 42	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690008	Date Monumented 10/5/2009	Monumented By AHTD	County Stone	Route 5	Job Number: R50116,R50089
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	164,140.1370	
Easting (M)	396,986.2410	
Elevation (M)*	202.490	
Northing (SFT)	538,516.4328	
Easting (SFT)	1,302,445.6923	
Elevation (SFT)*	664.336	

Convergence Angle	0	1	9.8600337
Scale Factor	0.999943868		
Elevation Adjust. Factor	0.9999682237		
Combined Adjust. Factor	0.9999120935		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Barbed wire fence	53	3.75	12.3
MK # 2	Wooden brace post	353	1.40	4.6
MK # 3	Wooden brace post	126	7.92	26.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT, ARLR Ref Mon # 2 690006, ARHR, N 42 Ref Mon # 3	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 48 46.2178512
Longitude	92 2 0.0552300
Ellipsoid Height (M):	175.025
Geoid Height (M):	-27.465

Location Description
<p>To reach the station from the junction of highways 5 and 14 on the east side of Mountain View, go south on hwy-5 for 4.70 miles to Station on left on top of the bank at its crest. 55.4 feet North-East of centerline of highway 5. 286 feet North-West of gated field entrance. 12.1 feet South-West of a witness post. The station mark is 2 1/2 inch aluminum cap set on top of 5/8 inch by 2 feet rebar stamped "690008 2009"</p>

AZ Mark Station	690002
Geodetic Azimuth	150 32 35
Grid Azimuth	150 33 45

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690009	Date Monumented 9/16/2010	Monumented By AHTD	County Stone	Route Culp	Job Number: FA0312
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	196,323.8230	
Easting (M)	383,104.0540	
Elevation (M)*	155.635	
Northing (SFT)	644,105.7426	
Easting (SFT)	1,256,900.5505	
Elevation (SFT)*	510.612	

Convergence Angle	0	6	33.0754295
Scale Factor	0.999976798		
Elevation Adjust. Factor	0.9999755764		
Combined Adjust. Factor	0.9999523750		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole with guy wires	300	10.36	34.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	TRI COUNTY
Ref Mon # 2	MONA
Ref Mon # 3	ARHR, ARBT, C 39, 690006

Comments

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 6 9.9439668
Longitude	92 11 15.5044140
Ellipsoid Height (M):	127.651
Geoid Height (M):	-27.984

Location Description
<p>To reach from the Stone county line at Calico Rock on Hwy 5, go south on Hwy 5 for 2.0 miles to Culp road on the right, go right on Culp road for 2.6 miles to the station on the right. The station mark is a 2 1/2 inch cap stamped "690009, 2010" set in top of a rock outcropping.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690009A	Date Monumented 9/16/2010	Monumented By AHTD	County Stone	Route Culp	Job Number: FA0312
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	196,086.3339	
Easting (M)	383,401.6680	
Elevation (M)*	164.909	
Northing (SFT)	643,326.5805	
Easting (SFT)	1,257,876.9724	
Elevation (SFT)*	541.039	

Convergence Angle	0	6	26.1412660
Scale Factor	0.999976461		
Elevation Adjust. Factor	0.9999741211		
Combined Adjust. Factor	0.9999505827		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Combination pole	10	1.52	5.0	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TRI COUNTY Ref Mon # 2 MONA Ref Mon # 3 ARHR, ARBT, C 39, 690006	

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 36 6 2.2569768

Longitude 92 11 3.5879784

Ellipsoid Height (M): 136.931

Geoid Height (M): -27.978

Location Description

To reach from the Stone county line at Calico Rock on Hwy 5, go south on Hwy 5 for 2.0 miles to Culp road on the right, go right on Culp road for 2.3 miles to the station on the right. The station mark is a 2 1/2 inch cap stamped "690009A, 2010" set in top of a rock outcropping.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690010	Date Monumented 10/18/2010	Monumented By AHTD	County Stone	Route 66	Job Number: 050231
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	169,875.8580	
Easting (M)	386,238.0710	
Elevation (M)*	199.140	
Northing (SFT)	557,334.3775	
Easting (SFT)	1,267,182.7379	
Elevation (SFT)*	653.346	

Convergence Angle	0	5	19.2120537
Scale Factor	0.999947856		
Elevation Adjust. Factor	0.9999687494		
Combined Adjust. Factor	0.9999166070		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fire hydrant	12	48.46	159.0
MK # 2	Combination pole with guy	75	7.93	26.0
MK # 3	Pole with three transformers	180	54.86	180.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Tri County	Digital levels were ran by crew S5103 from NGS mark Z 17 during job 050231 in Oct. 2010.
Ref Mon # 2 P777	
Ref Mon # 3 ARBT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690010A	Date Monumented 10/18/2010	Monumented By AHTD	County Stone	Route NA	Job Number: 050231
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	170,300.1220	
Easting (M)	386,252.2690	
Elevation (M)*	204.912	
Northing (SFT)	558,726.3169	
Easting (SFT)	1,267,229.3192	
Elevation (SFT)*	672.283	

Convergence Angle	0	5	18.8979413
Scale Factor	0.999948184		
Elevation Adjust. Factor	0.9999678436		
Combined Adjust. Factor	0.9999160293		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center of a gate	345	7.01	23.0
MK # 2	South end of a 18 inch CMP	37	3.20	10.5
MK # 3	South end of a chain link fence	184	25.60	84.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Tri County	Digital levels were ran by crew S5103 from NGS mark Z 17 during job 050231 in Oct. 2010.
Ref Mon # 2 P777	
Ref Mon # 3 ARBT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690011	Date Monumented 10/18/2010	Monumented By AHTD	County Stone	Route 66	Job Number: 050231
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	171,817.5769	
Easting (M)	382,642.3410	
Elevation (M)*	212.529	
Northing (SFT)	563,704.8335	
Easting (SFT)	1,255,385.7471	
Elevation (SFT)*	697.271	

Convergence Angle	0	6	42.7038255
Scale Factor	0.999949387		
Elevation Adjust. Factor	0.9999666484		
Combined Adjust. Factor	0.9999160371		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Concrete right of way marker	289	32.92	108.0
MK # 2	Center of a wooden fence brace	99	34.44	113.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 Tri County Ref Mon # 2 P777 Ref Mon # 3 ARBT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital levels were ran by crew S5103 from NGS mark Z 17 during job 050231 in Oct. 2010.</td> </tr> </table>	Comments	Digital levels were ran by crew S5103 from NGS mark Z 17 during job 050231 in Oct. 2010.
Comments			
Digital levels were ran by crew S5103 from NGS mark Z 17 during job 050231 in Oct. 2010.			

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 52 54.7943520
Longitude	92 11 32.0509176
Ellipsoid Height (M):	184.869
Geoid Height (M):	-27.660

Location Description
To reach the station from the junction of highways 66 and 9 in Mountain View go west on hwy-66 for 5.50 miles to the station on the right. 39.0 feet north of the center of hwy-66, 10.0 feet south of a barb wire fence and 10.0 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "690011 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690011A	Date Monumented 10/18/2010	Monumented By AHTD	County Stone	Route 66	Job Number: 050231
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	171,848.7409	
Easting (M)	382,213.6000	
Elevation (M)*	203.034	
Northing (SFT)	563,807.0774	
Easting (SFT)	1,253,979.1193	
Elevation (SFT)*	666.121	

Convergence Angle	0	6	52.6521890
Scale Factor	0.999949412		
Elevation Adjust. Factor	0.9999681383		
Combined Adjust. Factor	0.9999175520		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	Power pole	77	26.52	87.0		690011
MK # 2						94 02 34
MK # 3						94 09 27

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Tri County Ref Mon # 2 P777 Ref Mon # 3 ARBT	Digital levels were ran by crew S5103 from NGS mark Z 17 during job 050231 in Oct. 2010.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690012	Date Monumented 10/18/2010	Monumented By AHTD	County Stone	Route 66	Job Number: 050231
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	172,560.5870	
Easting (M)	377,310.0160	
Elevation (M)*	183.755	
Northing (SFT)	566,142.5258	
Easting (SFT)	1,237,891.2775	
Elevation (SFT)*	602.870	

Convergence Angle	0	8	46.4591746
Scale Factor	0.999949990		
Elevation Adjust. Factor	0.9999711636		
Combined Adjust. Factor	0.9999211551		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	West end of a 15 inch CMP	195	15.24	50.0
MK # 2	Southeast corner of a building	355	16.76	55.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 Tri County Ref Mon # 2 P777 Ref Mon # 3 ARBT	Comments Digital levels were ran by crew S5103 from NGS mark Z 17 during job 050231 in Oct. 2010.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690012A	Date Monumented 10/18/2010	Monumented By AHTD	County Stone	Route 66	Job Number: 050231
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	172,534.0599	
Easting (M)	376,901.3830	
Elevation (M)*	208.672	
Northing (SFT)	566,055.4949	
Easting (SFT)	1,236,550.6207	
Elevation (SFT)*	684.618	

Convergence Angle	0	8	55.9387471
Scale Factor	0.999949967		
Elevation Adjust. Factor	0.9999672536		
Combined Adjust. Factor	0.9999172223		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	294	12.80	42.0
MK # 2	center of a steel gate	284	7.32	24.0
MK # 3	15 inch Cherry tree	99	24.69	81.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Tri County Ref Mon # 2 P777 Ref Mon # 3 ARBT	Digital levels were ran by crew S5103 from NGS mark Z 17 during job 050231 in Oct. 2010.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700001	Date Monumented 5/1/1995	Monumented By AHTD	County UNION	Route 167	Job Number: 070076,070059,7997
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	460,766.0265	
Easting (M)	340,860.8380	
Elevation (M)*	81.301	

Northing (SFT)	1,511,696.5386	
Easting (SFT)	1,118,307.5993	
Elevation (SFT)*	266.735	

Convergence Angle	0	21	18.1228029
Scale Factor	1.000020464		
Elevation Adjust. Factor	0.9999872414		
Combined Adjust. Factor	1.0000077051		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	33	12	46.3676760
Longitude	92	38	3.6113244
Ellipsoid Height:	54.517		
Grid Northing (Meters)	460,766.3711		
Grid Easting (Meters)	340,861.1553		

Location Description				
<p>FROM THE JCT. OF HWY. 167 AND HWY. 82B IN SOUTH ELDORADO, GO NORTH ON HWY 167 FOR 1.609 KM (1.0 MI) TO THE JCT. WITH HWY. 15 THAT IS ALSO MAIN STREET, TAKE THE HWY. 15 EXIT AND CONTINUE AHEAD FOR 0.38 KM (0.24 MI) TO THE STATION ON THE LEFT BEHIND THE GUARD RAIL IN AN OPEN AREA ON TOP OF THE BANK BETWEEN HWY. 167 AND THE EXIT RAMP. THE STATION IS 75.755 METERS SOUTH OF THE CENTER OF HWY. 15 OVERPASS, 18.7 METERS WEST OF THE CENTERLINE OF THE OFF RAMP AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "700001 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 629.872 METERS. THIS STATION WAS UPDATED ON 5/10/00.</p>				

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	6TH GUARD RAIL POST FROM SOUTH END	128		14.00	45.9
MK # 2	9TH GUARD RAIL POST FROM SOUTH END	80		13.20	43.3
MK # 3	12TH GUARD RAIL POST FROM SOUTH END	48		20.30	66.6

Area Reference Monuments (used for Processing)	Comments
<p>Ref Mon # 1 STELL</p> <p>Ref Mon # 2 S 197</p> <p>Ref Mon # 3 700009</p>	<p>From Job 070059 Elevation (NGVD29) = 266.912 FT. This was converted using VERTCON to NAVD88</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700001A	Date Monumented 5/1/1999	Monumented By AHTD	County UNION	Route 167	Job Number: 070059,070076,070074,7997
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	461,390.4913	
Easting (M)	340,943.1577	
Elevation (M)*	84.488	
Northing (SFT)	1,513,745.3035	
Easting (SFT)	1,118,577.6766	
Elevation (SFT)*	277.190	

Convergence Angle	0	21	16.4272599
Scale Factor	1.000019072		
Elevation Adjust. Factor	0.9999867413		
Combined Adjust. Factor	1.0000058130		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	33	13	6.6532980
Longitude	92	38	0.5820288
Ellipsoid Height:	57.720		
Grid Northing (Meters)	461,390.8423		
Grid Easting (Meters)	340,943.4717		

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing)	
Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	700009

Comments
3-wire level elevations from NGS BM N198-El Dorado from Job 070076-070074 by Garver Engr, S5103, & S5104 in Mar 2006 - Dec 2006.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700002	Date Monumented 5/1/1995	Monumented By AHTD	County UNION	Route 15	Job Number: 070059
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	461,757.7180	
Easting (M)	345,906.2970	
Elevation (M)*	64.151	
Northing (SFT)	1,514,950.1131	
Easting (SFT)	1,134,860.9094	
Elevation (SFT)*	210.469	

Convergence Angle	0	19	29.2036577
Scale Factor	1.000018193		
Elevation Adjust. Factor	0.9999899327		
Combined Adjust. Factor	1.0000081255		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE CORNER POST	220	13.00	42.7
MK # 2	4" x 4" FENCE POST	150	4.00	13.1
MK # 3	4" x 4" FENCE POST	77	13.00	42.7

Area Reference Monuments (used for Processing) <div style="margin-top: 5px;"> Ref Mon # 1 WARRPORT 1990 </div> <div style="margin-top: 5px;"> Ref Mon # 2 STELL 1986 </div> <div style="margin-top: 5px;"> Ref Mon # 3 NORPHLET 1952 </div>	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description			
FROM THE JCT. OF HWY. 167 AND HWY. 15 IN EASTERN EL DORADO, GO NORTH AND EAST ON HWY. 15 FOR 5.26 KM (3.27 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 10.5 METERS EAST OF THE CENTERLINE OF HWY. 15, 22.5 METERS NORTH OF THE CENTER OF AN ASPHALT DRIVEWAY, 51.0 METERS SOUTH OF A GRAVEL DRIVEWAY AND 3.87 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "700002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THE ELEVATION ON STATIONS 700002, 700002A, 700003 AND 700003A WERE ARRIVED AT BY LEVELING USING GOVERNMENT BENCH MARKS ON HWY. 15 AND DO NOT MATCH THE ELEVATIONS THAT WERE RUN FROM AN EXISTING BENCH MARK ON HWY. 167. THERE APPEARS TO BE AN ERROR OF 0.1829 METERS BETWEEN THE TWO BENCH LEVEL LINES.			

AZ Mark Station	700002A
Geodetic Azimuth	61 14 12.210756
Grid Azimuth	61 33 41.315347

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700002A	Date Monumented 5/1/1995	Monumented By AHTD	County UNION	Route 15	Job Number: 070059
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	461,994.0270	
Easting (M)	346,342.6380	
Elevation (M)*	73.008	
Northing (SFT)	1,515,725.4036	
Easting (SFT)	1,136,292.4715	
Elevation (SFT)*	239.527	

Convergence Angle	0	19	19.8013230
Scale Factor	1.000017666		
Elevation Adjust. Factor	0.9999885428		
Combined Adjust. Factor	1.0000062086		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	330	1.60	5.2
MK # 2	8" WILD CHERRY TREE	255	14.70	48.2
MK # 3	TELEPHONE JUNCTION BOX	55	13.70	44.9

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>WARRPORT 1990</td> </tr> <tr> <td>Ref Mon # 2</td> <td>STELL 1986</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NORPHLET 1952</td> </tr> </table>	Ref Mon # 1	WARRPORT 1990	Ref Mon # 2	STELL 1986	Ref Mon # 3	NORPHLET 1952	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	WARRPORT 1990							
Ref Mon # 2	STELL 1986							
Ref Mon # 3	NORPHLET 1952							
Comments								

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NGVD 29

Geoid Datum:

Latitude 33 13 27.2664408

Longitude 92 34 32.2183704

Ellipsoid Height (M): 46.184

Geoid Height (M): -26.824

Location Description

FROM THE JCT. OF HWY. 167 AND HWY. 15 IN EASTERN EL DORADO, GO NORTH AND EAST ON HWY. 15 FOR 5.74 KM (3.57 MILES) TO THE STATION ON THE LEFT. THE STATION IS 9.8 METERS WEST OF THE CENTERLINE OF HWY. 15, 31.7 METERS NORTH OF A GRAVEL DRIVEWAY, 25.0 METERS SOUTH OF A GRAVEL DRIVEWAY, 4.2 METERS EAST OF A GAS METER AND 1.35 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "700002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THE ELEVATION ON STATIONS 700002, 700002A, 700003 AND 700003A WERE ARRIVED AT BY LEVELING USING GOVERNMENT BENCH MARKS ON HWY. 15 AND DO NOT MATCH THE ELEVATIONS THAT WERE RUN FROM AN EXISTING BENCH MARK ON HWY. 167. THERE APPEARS TO BE AN ERROR OF 0.1829 METERS BETWEEN THE TWO BENCH LEVEL LINES.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700003	Date Monumented 5/1/1995	Monumented By AHTD	County UNION	Route 15	Job Number: R70105, 070059
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	463,169.6335	
Easting (M)	351,554.4371	
Elevation (M)*	44.936	
Northing (SFT)	1,519,582.3726	
Easting (SFT)	1,153,391.5157	
Elevation (SFT)*	147.428	

Convergence Angle	0	17	27.2795910
Scale Factor	1.000015031		
Elevation Adjust. Factor	0.9999929481		
Combined Adjust. Factor	1.0000079790		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	2ND GUARD RAIL POST	205	1.10	3.6	
MK # 2	5TH GUARD RAIL POST	240	2.80	9.2	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 WARRPORT 1990 Ref Mon # 2 STELL 1986 Ref Mon # 3 NORPHLET 1952	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	33 14 6.3295548
Longitude	92 31 11.1756612
Ellipsoid Height (M):	18.130
Geoid Height (M):	-26.806

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HWY-15 & HWY-129 IN THE SMALL VILLAGE OF OLD UNION ABOUT 7 MILES EAST OF EL DORADO GO NORTH AND EAST ON HWY-15 FOR 1.06 KM.(0.66 MI.) TO THE STATION ON THE LEFT BY THE NORTHWEST CORNER OF A BRIDGE. 7.10 METERS NORTH OF THE CENTERLINE OF HWY-15, 0.75 METERS NORTH OF THE BACK OF THE PARAPET WALL AND 1.04 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD CAP STAMPED "700003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	700003A
Geodetic Azimuth	88 00 58.864114
Grid Azimuth	88 18 26.047851

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700003A	Date Monumented 5/1/1995	Monumented By AHTD	County UNION	Route 15	Job Number: R70105, 070059
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	463,182.2649	
Easting (M)	351,981.8516	
Elevation (M)*	50.456	
Northing (SFT)	1,519,623.8141	
Easting (SFT)	1,154,793.7915	
Elevation (SFT)*	165.538	

Convergence Angle	0	17	18.0414211
Scale Factor	1.000014998		
Elevation Adjust. Factor	0.9999920819		
Combined Adjust. Factor	1.0000070798		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	35	28.20	92.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	WARRPORT 1990
Ref Mon # 2	STELL 1986
Ref Mon # 3	NORPHLET 1952

Comments

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	33 14 6.8096760
Longitude	92 30 54.6698124
Ellipsoid Height (M):	23.652
Geoid Height (M):	-26.804

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-15 AND HWY-129 IN THE SMALL VILLAGE OF OLD UNION THAT IS ABOUT 7 MILES EAST OF EL DORADO GO NORTH AND EAST ON HWY-15 FOR 1.48 KM. (0.92 MI.) TO THE STATION ON THE RIGHT. 40 METERS NORTHWEST OF THE NORTHEAST CORNER OF A CHICKEN HOUSE, 34.4 METERS NORTH OF THE NORTH SIDE OF THE CHICKEN HOUSE, 10.3 METERS SOUTH OF THE CENTERLINE OF HWY-15 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD CAP STAMPED "700003A" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	700003
Geodetic Azimuth	268 01 07.91058
Grid Azimuth	268 18 26.04785

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700004	Date Monumented 7/24/1995	Monumented By AHTD	County UNION	Route 15	Job Number: 070104
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	455,726.5100	
Easting (M)	330,228.4540	
Elevation (M)*	59.403	
Northing (SFT)	1,495,162.7249	
Easting (SFT)	1,083,424.5195	
Elevation (SFT)*	194.891	

Convergence Angle	0	25	7.1078382
Scale Factor	1.000032207		
Elevation Adjust. Factor	0.9999906778		
Combined Adjust. Factor	1.0000228845		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	3" STEEL FENCE CORNER POST	297	8.00	26.2
MK # 2	COMBINATION POLE	98	15.90	52.2
MK # 3	20" CONCRETE CULVERT	240	12.20	40.0

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>NORPHLET 1952</td> </tr> <tr> <td>Ref Mon # 2</td> <td>WYATT 1941</td> </tr> <tr> <td>Ref Mon # 3</td> <td>700001</td> </tr> </table>	Ref Mon # 1	NORPHLET 1952	Ref Mon # 2	WYATT 1941	Ref Mon # 3	700001	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	NORPHLET 1952						
Ref Mon # 2	WYATT 1941						
Ref Mon # 3	700001						

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	33 10 0.4548000
Longitude	92 44 52.7513244
Ellipsoid Height (M):	32.564
Geoid Height (M):	-26.839

Location Description
FROM THE JCT. OF HWY. 167 AND HWY. 82 IN SOUTH EL DORADO, GO WEST ON HWY. 82 FOR 5.471 KM (3.40 MILES) TO THE JCT. OF HWY. 82 AND HWY. 15, GO SOUTH ON HWY. 15 FOR 6.759 KM (4.20 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 18.0 METERS EAST OF THE CENTERLINE OF NEWELL ROAD, 15.0 METERS NORTH OF THE CENTERLINE OF HWY. 15 AND 2.60 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "700004 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

AZ Mark Station	700001A
Geodetic Azimuth	101 10 39.17474
Grid Azimuth	101 35 46.20314

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700004A	Date Monumented 10/27/2004	Monumented By AHTD	County UNION	Route 15	Job Number: 070273, 070104
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	455,659.3100	
Easting (M)	330,554.0630	
Elevation (M)*	53.135	
Northing (SFT)	1,494,942.2529	
Easting (SFT)	1,084,492.7884	
Elevation (SFT)*	174.328	

Convergence Angle	0	25	0.0641779
Scale Factor	1.000032360		
Elevation Adjust. Factor	0.9999916614		
Combined Adjust. Factor	1.0000240211		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	90	4.80	15.7
MK # 2	30" METAL CULVERT	240	5.50	18.0
MK # 3	METER POLE	330	8.60	28.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 100%;" type="text" value="IULM, SHRV"/> Ref Mon # 2 <input style="width: 100%;" type="text" value="DQUA"/> Ref Mon # 3 <input style="width: 100%;" type="text" value="CSAL"/>	3-Wire Levels ran from NGS BM Eldorado/ Z121/ Y121 by S5105 in Job 070273 in July 2006.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700005	Date Monumented 5/14/1996	Monumented By AHTD	County UNION	Route 15	Job Number: R70105
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	462,867.1028	
Easting (M)	356,140.1177	
Elevation (M)*	60.333	
Northing (SFT)	1,518,589.8198	
Easting (SFT)	1,168,436.3695	
Elevation (SFT)*	197.943	

Convergence Angle	0	15	48.1193268
Scale Factor	1.000015641		
Elevation Adjust. Factor	0.9999905319		
Combined Adjust. Factor	1.0000061727		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	119	31.27	102.6
MK # 2	SOUTHEAST END OF HEADWALL	267	24.87	81.6
MK # 3	NORTHEAST END OF HEADWALL	294	29.28	96.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 STELL 1986	ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NUMBER M-201, ELEVATION = 66.942 METERS DATUM OF NAVD88.
Ref Mon # 2 WARRPORT 1986	
Ref Mon # 3 700003	

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 13 57.2298852

Longitude 92 28 14.0059020

Ellipsoid Height (M): 33.548

Geoid Height (M): -26.785

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-15 AND HWY-129 IN THE SMALL VILLAGE OF OLD UNION, ABOUT 11.3 KM. (7.0 MI.) EAST OF EL DORADO, GO EAST ON HWY-15 FOR 5.79 KM. (3.60 MI.) TO THE STATION ON THE RIGHT. 32.72 METERS WEST OF THE CENTER OF A PAVED DRIVEWAY, 8.44 METERS SOUTH OF THE CENTER OF HWY-15 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700005 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700005A	Date Monumented 5/14/1996	Monumented By AHTD	County UNION	Route 15	Job Number: R70105
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	462,916.2565	
Easting (M)	355,716.1985	
Elevation (M)*	63.951	
Northing (SFT)	1,518,751.0849	
Easting (SFT)	1,167,045.5612	
Elevation (SFT)*	209.813	

Convergence Angle	0	15	57.2879891
Scale Factor	1.000015538		
Elevation Adjust. Factor	0.9999899641		
Combined Adjust. Factor	1.0000055019		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE		24.82	81.4	
MK # 2	LIGHT POLE		32.25	105.8	
MK # 3	WATER METER		14.63	48.0	

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>STELL 1986</td> </tr> <tr> <td>Ref Mon # 2</td> <td>WARRPORT 1986</td> </tr> <tr> <td>Ref Mon # 3</td> <td>700003</td> </tr> </table>	Ref Mon # 1	STELL 1986	Ref Mon # 2	WARRPORT 1986	Ref Mon # 3	700003	<table style="width: 100%;"> <tr> <td style="width: 30%;">AZ Mark Station</td> <td>700005</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>96 20 53.04403</td> </tr> <tr> <td>Grid Azimuth</td> <td>96 36 50.23661</td> </tr> </table>	AZ Mark Station	700005	Geodetic Azimuth	96 20 53.04403	Grid Azimuth	96 36 50.23661
Ref Mon # 1	STELL 1986												
Ref Mon # 2	WARRPORT 1986												
Ref Mon # 3	700003												
AZ Mark Station	700005												
Geodetic Azimuth	96 20 53.04403												
Grid Azimuth	96 36 50.23661												

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700006	Date Monumented 5/14/1996	Monumented By AHTD	County UNION	Route 15	Job Number: R70105
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1986)
Northing (M)	464,921.3129
Easting (M)	362,047.9939
Elevation (M)*	48.027
Northing (SFT)	1,525,329.3407
Easting (SFT)	1,187,819.1267
Elevation (SFT)*	157.569

Convergence Angle	0	13	40.5868437
Scale Factor	1.000011157		
Elevation Adjust. Factor	0.9999924631		
Combined Adjust. Factor	1.0000036200		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	42	6.55	21.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 STELL 1986	
Ref Mon # 2 WARRPORT 1986	
Ref Mon # 3 700003	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 15 4.7283876
Longitude	92 24 26.1434664
Ellipsoid Height (M):	21.270
Geoid Height (M):	-26.757

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-15 AND HWY-129 IN THE SMALL VILLAGE OF OLD UNION LOCATED ABOUT 11.3 KM. (7.0 MI.) EAST OF EL DORADO, GO EAST ON HWY-15 FOR 12.15 KM. (7.55 MI.) TO A CLEARCUT AREA AND THE STATION ON THE LEFT. 10.28 METERS NORTH-NORTHWEST OF THE CENTER OF HWY-15 AND 0.70 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700006 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700006A	Date Monumented 5/14/1996	Monumented By AHTD	County UNION	Route 15	Job Number: R70105
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	464,680.9227	
Easting (M)	361,539.3223	
Elevation (M)*	51.091	
Northing (SFT)	1,524,540.6606	
Easting (SFT)	1,186,150.2599	
Elevation (SFT)*	167.621	

Convergence Angle	0	13	51.5641145
Scale Factor	1.000011674		
Elevation Adjust. Factor	0.9999919822		
Combined Adjust. Factor	1.0000036561		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RAILROAD TIE FENCE CORNER POST	68	20.48	67.2
MK # 2	RAILROAD TIE FENCE POST	242	24.60	80.7
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 STELL 1986 Ref Mon # 2 WARRPORT 1986 Ref Mon # 3 700003	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 14 56.8595724
Longitude	92 24 45.7565688
Ellipsoid Height (M):	24.331
Geoid Height (M):	-26.760

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HWY-15 AND HWY-129 IN THE SMALL VILLAGE OF OLD UNION LOCATED ABOUT 11.3 KM. (7.0 MI.) EAST OF EL DORADO, GO EAST ON HWY-15 FOR 11.59 KM. (7.20 MI.) TO THE STATION ON THE RIGHT. 22.7 METERS SOUTHWEST OF A FIELD ENTRANCE, 11.7 METERS SOUTH-SOUTHEAST OF THE CENTER OF HWY-15 AND 0.77 METERS NORTH-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700006A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	700006
Geodetic Azimuth	64 28 27.6915
Grid Azimuth	64 42 19.1438

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700007	Date Monumented 5/14/1996	Monumented By AHTD	County UNION	Route 15	Job Number: R70105
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	467,865.6571	
Easting (M)	367,543.8353	
Elevation (M)*	33.827	
Northing (SFT)	1,534,989.2433	
Easting (SFT)	1,205,850.0663	
Elevation (SFT)*	110.981	

Convergence Angle	0	11	41.9750690
Scale Factor	1.000004946		
Elevation Adjust. Factor	0.9999946915		
Combined Adjust. Factor	0.9999996374		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	4th GUARD RAIL POST SOUTH OF THE BRIDGE	25	4.04	13.3
MK # 2	7th GUARD RAIL POST SOUTH OF THE BRIDGE	51	1.47	4.8
MK # 3	11th GUARD RAIL POST SOUTH OF THE BRIDGE	192	8.45	27.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 STELL 1986 Ref Mon # 2 WARRPORT 1986 Ref Mon # 3 700003	ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NUMBER V-201, ELEVATION = 33.623 METERS DATUM OF NAVD88.

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-15 AND HWY-129 IN THE SMALL VILLAGE OF OLD UNION LOCATED ABOUT 11.3 KM. (7.0 MI.) EAST OF EL DORADO, GO EAST ON HWY-15 FOR 17.54 KM. (10.90 MI.) TO THE JUNCTION WITH HWY-275 SOUTH, CONTINUE EAST ON HWY-15 FOR 1.29 KM. (0.80 MI.) TO THE STATION ON THE LEFT NEAR THE SOUTH END OF THE BRIDGE OVER THE OUACHITA RIVER. 12.0 METERS SOUTH OF THE BRIDGE END, 6.60 METERS WEST OF THE CENTER OF HWY-15 AND 0.70 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700007 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700008	Date Monumented 5/16/1996	Monumented By AHTD	County UNION	Route 167	Job Number: R70058
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	439,615.5875	
Easting (M)	332,318.4507	
Elevation (M)*	60.399	
Northing (SFT)	1,442,305.4733	
Easting (SFT)	1,090,281.4503	
Elevation (SFT)*	198.159	

Convergence Angle	0	24	19.5017710
Scale Factor	1.000073351		
Elevation Adjust. Factor	0.9999905215		
Combined Adjust. Factor	1.0000638718		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	72	23.40	76.8
MK # 2	METAL POLE	188	29.55	96.9
MK # 3	COMBINATION POLE	281	23.40	76.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="STELL 1986"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="WYATT 1941"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING USING USC&GS BENCH MARK # JUNCTION 1934. ELEVATION = 61.106 METERS NAVD88 DATUM.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700008A	Date Monumented 5/16/1996	Monumented By AHTD	County UNION	Route 167	Job Number: R70058
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	439,954.6957	
Easting (M)	332,451.5989	
Elevation (M)*	52.261	
Northing (SFT)	1,443,418.0308	
Easting (SFT)	1,090,718.2874	
Elevation (SFT)*	171.460	

Convergence Angle	0	24	16.6822678
Scale Factor	1.000072417		
Elevation Adjust. Factor	0.9999917986		
Combined Adjust. Factor	1.0000642150		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST	82	9.95	32.6
MK # 2	COMBINATION POLE	92	16.55	54.3
MK # 3	GUY POLE	162	2.70	8.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="STELL 1986"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="WYATT 1941"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING USING USC&GS BENCH MARK # JUNCTION 1934. ELEVATION = 61.106 METERS NAVD88 DATUM.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700009	Date Monumented 7/23/1997	Monumented By AHTD	County UNION	Route 82	Job Number: 070170, 070074, 7997
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	457,817.2130	
Easting (M)	340,732.0600	
Elevation (M)*	81.936	
Northing (SFT)	1,502,021.9730	
Easting (SFT)	1,117,885.1002	
Elevation (SFT)*	268.818	

Convergence Angle	0	21	20.5102601
Scale Factor	1.000027163		
Elevation Adjust. Factor	0.9999871417		
Combined Adjust. Factor	1.0000143044		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT IN TOP OF GUARD RAIL	282	3.90	12.8
MK # 2	PUNCH POINT IN TOP OF GUARD RAIL	37	2.15	7.1
MK # 3	SW CORNER OF BRIDGE = TBM 1	62	11.40	37.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 S 197 Ref Mon # 2 MAGNOLIA 2 Ref Mon # 3 STELL	Vertical established from GPS 700015 on Job # 070076 which is based on NGS N 198 AZ MARK STATION REPORTED DESTROYED BY RE 76 ON 10/24/2014.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700010	Date Monumented 6/23/1999	Monumented By AHTD	County UNION	Route 82	Job Number: 070170
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	455,125.0199	
Easting (M)	347,300.2680	
Elevation (M)*	69.880	
Northing (SFT)	1,493,189.3361	
Easting (SFT)	1,139,434.2959	
Elevation (SFT)*	229.265	

Convergence Angle	0	18	58.2832704
Scale Factor	1.000033371		
Elevation Adjust. Factor	0.9999890337		
Combined Adjust. Factor	1.0000224043		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing)	
Ref Mon # 1	S 197
Ref Mon # 2	MAGNOLIA 2
Ref Mon # 3	STELL

Comments

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 9 44.4851208

Longitude 92 33 53.7720408

Ellipsoid Height (M): 43.734

Geoid Height (M): -26.146

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EAST ON U.S. HIGHWAY 82 FOR 7.56 KM (4.7 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.25 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 1.11 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700010 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 720.667 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700010A	Date Monumented 6/23/1999	Monumented By AHTD	County UNION	Route 82	Job Number: 070170
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	455,114.6619	
Easting (M)	348,020.8790	
Elevation (M)*	64.315	
Northing (SFT)	1,493,155.3533	
Easting (SFT)	1,141,798.5005	
Elevation (SFT)*	211.007	

Convergence Angle	0	18	42.7175873
Scale Factor	1.000033387		
Elevation Adjust. Factor	0.9999899070		
Combined Adjust. Factor	1.0000232936		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EAST ON U.S. HIGHWAY 82 FOR 8.29 KM (5.15 MI) TO THE STATION ON THE LEFT SET ON A POND LEVEE. THE STATION IS 19.40 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.64 METERS SOUTH OF A WITNESS POST SET NEXT TO A CHAIN LINK FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700010A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 720.667 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 S 197</p> <p>Ref Mon # 2 MAGNOLIA 2</p> <p>Ref Mon # 3 STELL</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700011	Date Monumented 6/23/1999	Monumented By AHTD	County UNION	Route 82	Job Number: 070170
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	453,785.4560	
Easting (M)	350,221.7870	
Elevation (M)*	70.293	
Northing (SFT)	1,488,794.4502	
Easting (SFT)	1,149,019.3128	
Elevation (SFT)*	230.620	

Convergence Angle	0	17	55.0305539
Scale Factor	1.000036533		
Elevation Adjust. Factor	0.9999889689		
Combined Adjust. Factor	1.0000255015		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EAST ON U.S. HIGHWAY 82 FOR 11.10 KM (6.9 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.35 METERS EAST OF THE CENTER OF A PASTURE ENTRANCE, 17.25 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 1.35 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700011 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 457.929 METERS.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF A PLASTIC CULVERT	308	16.25	53.3
MK # 2	METAL GATE POST	289	16.80	55.1
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 S 197</p> <p>Ref Mon # 2 MAGNOLIA 2</p> <p>Ref Mon # 3 STELL</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700011A	Date Monumented 6/23/1999	Monumented By AHTD	County UNION	Route 82	Job Number: 070170
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	453,642.4969	
Easting (M)	350,656.8430	
Elevation (M)*	65.543	
Northing (SFT)	1,488,325.4252	
Easting (SFT)	1,150,446.6591	
Elevation (SFT)*	215.036	

Convergence Angle	0	17	45.6191239
Scale Factor	1.000036871		
Elevation Adjust. Factor	0.9999897143		
Combined Adjust. Factor	1.0000265849		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COBINATION POLE=TBM 901	295	28.08	92.1
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	S 197
Ref Mon # 2	MAGNOLIA 2
Ref Mon # 3	STELL

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700012	Date Monumented 6/24/1999	Monumented By AHTD	County UNION	Route 82	Job Number: 070170
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	451,605.3539	
Easting (M)	355,936.5940	
Elevation (M)*	64.087	
Northing (SFT)	1,481,641.8986	
Easting (SFT)	1,167,768.6421	
Elevation (SFT)*	210.259	

Convergence Angle	0	15	51.3959533
Scale Factor	1.000041763		
Elevation Adjust. Factor	0.9999899428		
Combined Adjust. Factor	1.0000317053		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	S 197
Ref Mon # 2	MAGNOLIA 2
Ref Mon # 3	STELL

Comments

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 7 51.6638532

Longitude 92 28 19.8602544

Ellipsoid Height (M): 37.966

Geoid Height (M): -26.121

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EAST ON U.S. HIGHWAY 82 FOR 17.22 KM (10.7 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.30 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 1.49 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700012 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 750.624 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700012A	Date Monumented 6/24/1999	Monumented By AHTD	County UNION	Route 82	Job Number: 070170
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	451,641.9310	
Easting (M)	356,686.3520	
Elevation (M)*	61.397	
Northing (SFT)	1,481,761.9020	
Easting (SFT)	1,170,228.4732	
Elevation (SFT)*	201.433	

Convergence Angle	0	15	35.2113435
Scale Factor	1.000041665		
Elevation Adjust. Factor	0.9999903649		
Combined Adjust. Factor	1.0000320295		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	S 197
Ref Mon # 2	MAGNOLIA 2
Ref Mon # 3	STELL

Comments

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 7 52.9623660
Longitude	92 27 50.9431932
Ellipsoid Height (M):	35.277
Geoid Height (M):	-26.120

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EAST ON U.S. HIGHWAY 82 FOR 18.03 KM (11.2 MI) TO THE STATION ON THE LEFT. THE STATION IS 56.00 METERS WEST OF THE CENTER OF THE OLD STRONG HIGHWAY 15.40 METERS NORTH OF THE CENTER OF U.S. HIGHWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "700012A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 750.624 METERS.</p>

AZ Mark Station	700012
Geodetic Azimuth	266 56 50.08078
Grid Azimuth	267 12 25.48199

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700013	Date Monumented 6/24/1999	Monumented By AHTD	County UNION	Route 82	Job Number: 070170
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	449,423.7889	
Easting (M)	365,039.7450	
Elevation (M)*	39.067	
Northing (SFT)	1,474,484.5474	
Easting (SFT)	1,197,634.5634	
Elevation (SFT)*	128.172	

Convergence Angle	0	12	34.6747209
Scale Factor	1.000047087		
Elevation Adjust. Factor	0.9999938692		
Combined Adjust. Factor	1.0000409559		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EAST ON U.S. HIGHWAY 82 FOR 26.55 KM (16.50 MI) TO THE STATION ON THE RIGHT NEXT TO A CAR WASH. THE STATION IS 13.50 METERS EAST OF THE CENTER OF A CONCRETE DRIVE TO A CAR WASH, 11.55 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS SOUTH OF THE SOUTH EDGE OF A CONCRETE DITCH. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700013 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 275.982 METERS.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE				700013A	
MK # 2	NONE				288 45 36.37184	
MK # 3	NONE				288 58 11.11417	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 S 197	
Ref Mon # 2 MAGNOLIA 2	
Ref Mon # 3 STELL	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700013A	Date Monumented 6/24/1999	Monumented By AHTD	County UNION	Route 82	Job Number: 070241, 070170
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	449,513.5079	
Easting (M)	364,778.7340	
Elevation (M)*		
Northing (SFT)	1,474,778.9005	
Easting (SFT)	1,196,778.2298	
Elevation (SFT)*		

Convergence Angle	0	12	40.3161632
Scale Factor	1.000046864		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EAST ON U.S. HIGHWAY 82 FOR 26.88 KM (16.70 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.30 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 82, 14.80 METERS WEST-NORTHWEST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700013A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 275.982 METERS.</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1					AZ Mark Station	700021
MK # 2					Geodetic Azimuth	107 23 22
MK # 3					Grid Azimuth	107 36 03

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPE CORS, 700013A	
Ref Mon # 2 IULM CORS	
Ref Mon # 3 LROC CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700014	Date Monumented 2/2/2000	Monumented By AHTD	County UNION	Route 167	Job Number: 070076,7997,070373
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	465,291.9589	
Easting (M)	339,571.9848	
Elevation (M)*	61.131	
Northing (SFT)	1,526,545.3685	
Easting (SFT)	1,114,079.0868	
Elevation (SFT)*	200.561	

Convergence Angle	0	21	46.5965257
Scale Factor	1.000010615		
Elevation Adjust. Factor	0.9999904066		
Combined Adjust. Factor	1.0000010215		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN TOP OF METAL GUARD RAIL POST	288	6.50	21.3
MK # 2	PUNCH MARK IN TOP OF METAL GUARD RAIL POST	303	5.50	18.0
MK # 3	PUNCH MARK IN TOP OF METAL GUARD RAIL POST	324	4.96	16.3

Area Reference Monuments (used for Processing) Ref Mon # 1 STELL Ref Mon # 2 S 197 Ref Mon # 3 700009	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire level elevations from NGS BM N198-El Dorado from Job 070076-070074 by Garver Engr, S5103, & S5104 in Mar 2006 - Dec 2006.</td> </tr> </table>	Comments	3-wire level elevations from NGS BM N198-El Dorado from Job 070076-070074 by Garver Engr, S5103, & S5104 in Mar 2006 - Dec 2006.
Comments			
3-wire level elevations from NGS BM N198-El Dorado from Job 070076-070074 by Garver Engr, S5103, & S5104 in Mar 2006 - Dec 2006.			

Location Description
THE STATION IS LOCATED ON THE NORTH SIDE OF EL DORADO, AT THE JUNCTION OF U.S. HIGHWAY 167 AND STATE HWY 7. THE STATION IS 12.40 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 167, 3.75 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF A OVERPASS FOR HIGHWAY 7, 3.70 METERS SOUTHEAST OF A WITNESS POST AND 1.4 METERS NORTHWEST OF THE CENTER OF A CONCRETE DITCH. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700014 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 643.182 METERS.

AZ Mark Station	700014A
Geodetic Azimuth	126 55 49.54451
Grid Azimuth	127 17 36.02820

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700014A	Date Monumented 2/2/2000	Monumented By AHTD	County UNION	Route 167	Job Number: 070076,7997,070373
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	464,902.2578	
Easting (M)	340,083.6639	
Elevation (M)*	49.386	
Northing (SFT)	1,525,266.8241	
Easting (SFT)	1,115,757.8206	
Elevation (SFT)*	162.027	

Convergence Angle	0	21	35.4801835
Scale Factor	1.000011438		
Elevation Adjust. Factor	0.9999922498		
Combined Adjust. Factor	1.0000036877		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 STELL	3-wire level elevations from NGS BM N198-El Dorado from Job 070076-070074 by Garver Engr, S5103, & S5104 in Mar 2006 - Dec 2006.
Ref Mon # 2 S 197	
Ref Mon # 3 700009	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 15 0.4529160
Longitude	92 38 34.6359480
Ellipsoid Height (M):	23.194
Geoid Height (M):	-26.167

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF EL DORADO, GO SOUTHEAST ON U.S. HIGHWAY 167 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 39.42 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700014A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 643.182 METERS.</p>

AZ Mark Station	700014
Geodetic Azimuth	306 56 00.43502
Grid Azimuth	307 17 36.02820

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700015	Date Monumented 2/2/2000	Monumented By AHTD	County UNION	Route 7	Job Number: 070076,7997
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	469,093.9145	
Easting (M)	337,401.0806	
Elevation (M)*	50.384	
Northing (SFT)	1,539,018.9512	
Easting (SFT)	1,106,956.7119	
Elevation (SFT)*	165.302	

Convergence Angle	0	22	34.0749419
Scale Factor	1.000002741		
Elevation Adjust. Factor	0.9999920931		
Combined Adjust. Factor	0.9999948341		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF EL DORADO, GO NORTHWEST ON STATE HIGHWAY 7 FOR 4.51 KM (2.80 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 11.10 METERS NORTHEAST OF THE CENTER OF THE SOUTH BOUND LANE OF STATE HIGHWAY 7, 8.30 METERS SOUTHWEST OF THE CENTET OF NORTH BOUND LANE OF STATE HIGHWAY 7 AND 0.89 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700015 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 868.109 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 STELL</p> <p>Ref Mon # 2 S 197</p> <p>Ref Mon # 3 700009</p>	<p style="text-align: center;">Comments</p> <p>3-wire level elevations from NGS BM N198-El Dorado from Job 070076-070074 by Garver Engr, S5103, & S5104 in Mar 2006 - Dec 2006.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700015A	Date Monumented 2/2/2000	Monumented By AHTD	County UNION	Route 7	Job Number: 070076,7997,070368
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	469,836.8788	
Easting (M)	336,952.0807	
Elevation (M)*	43.156	
Northing (SFT)	1,541,456.4932	
Easting (SFT)	1,105,483.6181	
Elevation (SFT)*	141.588	

Convergence Angle	0	22	43.8932257
Scale Factor	1.000001244		
Elevation Adjust. Factor	0.9999932274		
Combined Adjust. Factor	0.9999944714		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	33	17	39.9654600
Longitude	92	40	36.8709024
Ellipsoid Height:	16.948		
Grid Northing (Meters)	469,836.8641		
Grid Easting (Meters)	336,952.0472		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 STELL Ref Mon # 2 S 197 Ref Mon # 3 700009	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire level elevations from NGS BM N198-El Dorado from Job 070076-070074 by Garver Engr, S5103, & S5104 in Mar 2006 - Dec 2006.</td> </tr> </table>	Comments	3-wire level elevations from NGS BM N198-El Dorado from Job 070076-070074 by Garver Engr, S5103, & S5104 in Mar 2006 - Dec 2006.
Comments			
3-wire level elevations from NGS BM N198-El Dorado from Job 070076-070074 by Garver Engr, S5103, & S5104 in Mar 2006 - Dec 2006.			

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF EL DORADO, GO NORTHWEST ON STATE HIGHWAY 7 FOR 5.39 KM (3.35 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 10.15 SOUTHWEST OF THE SOUTH BOUND LANE OF STATE HIGHWAY 7, 9.70 METERS NORTHEAST OF THE CENTER OF THE NORTH BOUND LANE OF STATE HIGHWAY 7 AND 0.57 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700015A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 868.109 METERS.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700016	Date Monumented 1/23/2003	Monumented By AHTD	County UNION	Route 7	Job Number: 070249
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	475,805.4231	
Easting (M)	331,405.5460	
Elevation (M)*	46.115	
Northing (SFT)	1,561,038.2923	
Easting (SFT)	1,087,286.3622	
Elevation (SFT)*	151.295	

Convergence Angle	0	24	44.8048906
Scale Factor	0.999989729		
Elevation Adjust. Factor	0.9999927631		
Combined Adjust. Factor	0.9999824922		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
THE STATION IS SOUTHWEST OF SMACKOVER, AND LOCATED AT THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 172 IN THE MEDIAN OF HIGHWAY 7. 19.70 METERS NORTH FROM THE CENTER OF THE SOUTH BOUND LANE, 18.0 METERS SOUTH OF THE CENTER OF THE NORTH BOUND LANE, 12.80 METERS WEST FROM THE CENTER OF THE CROSS OVER ROAD, AND 0.50 METERS EAST OF A WITNESS POST.			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1					AZ Mark Station	700016
MK # 2					Geodetic Azimuth	122 12 41
MK # 3					Grid Azimuth	122 37 26

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD MON 1 Ref Mon # 2 Winnfield CORS Ref Mon # 3 Vicksburg CORS	ELEV BY 3WR FROM NGS PT N 198

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700016A	Date Monumented 1/23/2003	Monumented By AHTD	County UNION	Route 7	Job Number: 070249
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	475,566.9071	
Easting (M)	331,778.1600	
Elevation (M)*	51.149	
Northing (SFT)	1,560,255.7610	
Easting (SFT)	1,088,508.8466	
Elevation (SFT)*	167.810	

Convergence Angle	0	24	36.7025505
Scale Factor	0.999990170		
Elevation Adjust. Factor	0.9999919732		
Combined Adjust. Factor	0.9999821433		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD MON 1	ELEV BY 3WR FROM NGS PT N 198
Ref Mon # 2 Winnfield CORS	
Ref Mon # 3 Vicksburg CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700017	Date Monumented 1/23/2003	Monumented By AHTD	County UNION	Route 160	Job Number: 070243
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	472,197.4551	
Easting (M)	319,460.4180	
Elevation (M)*		
Northing (SFT)	1,549,201.1506	
Easting (SFT)	1,048,096.3881	
Elevation (SFT)*		

Convergence Angle	0	29	2.6995351
Scale Factor	0.999996815		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	UNDER GROUND CABLE MARKER	86	13.60	44.6	700017
MK # 2	POWER POLE WITH GUY	261	29.10	95.5	66 54 50
MK # 3					67 23 52

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD MON 1	
Ref Mon # 2 AHTD HOPE 1	
Ref Mon # 3 Winnfield CORS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700017A	Date Monumented 1/23/2003	Monumented By AHTD	County UNION	Route 160	Job Number: 070243
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	472,368.2381	
Easting (M)	319,870.6540	
Elevation (M)*		
Northing (SFT)	1,549,761.4612	
Easting (SFT)	1,049,442.3040	
Elevation (SFT)*		

Convergence Angle	0	28	53.8544112
Scale Factor	0.999996474		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UNDER GROUND CABLE MARKER AND R/ WALL	80	13.90	45.6
MK # 2	POWER POLE	71	32.30	106.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD MON 1 Ref Mon # 2 AHTD HOPE 1 Ref Mon # 3 Winnfield CORS	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description	
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 160, SOUTHWEST OF SMACKOVER, GO WEST ON HIGHWAY 160 7.35 MILES TO THE STATION ON THE LEFT. 9.10 METERS SOUTH OF THE CENTER OF THE ROAD AND EAST 23.90 METERS OF A PAVED COUNTY ROAD, AND 5.75 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "700017A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.	

AZ Mark Station	700017
Geodetic Azimuth	246 54 58
Grid Azimuth	247 23 52

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700018	Date Monumented 10/21/2003	Monumented By AHTD	County UNION	Route 275	Job Number: 070241
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	439,413.6679	
Easting (M)	367,414.7560	
Elevation (M)*		
Northing (SFT)	1,441,643.0088	
Easting (SFT)	1,205,426.5786	
Elevation (SFT)*		

Convergence Angle	0	11	42.6704849
Scale Factor	1.000073401		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GATE POST WITH LOCK	333	27.50	90.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	HOPE CORS, 700013A
Ref Mon # 2	IULM CORS
Ref Mon # 3	LROC CORS

Comments

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 33 1 17.4416052

Longitude 92 20 55.4621712

Ellipsoid Height (M): 24.361

Geoid Height (M): -26.046

Location Description

TO REACH THE STATION FROM THE JUNCTION OF THE ARKANSAS LOUISIANA iSTATE LINE AND STATE HIGHWAY 275, SOUTH OF STRONG, GO NORTH ON iHIGHWAY 275 0.75 MILES TO THE STATION MARK ON THE LEFT, WEST i11.60 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 0.50 iMETERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm iCAP STAMPED "700018 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN iFLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700018A	Date Monumented 10/21/2003	Monumented By AHTD	County UNION	Route 275	Job Number: 070241
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	438,315.0069	
Easting (M)	368,539.2130	
Elevation (M)*		
Northing (SFT)	1,438,038.4851	
Easting (SFT)	1,209,115.7347	
Elevation (SFT)*		

Convergence Angle	0	11	18.3448794
Scale Factor	1.000076430		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH EAST CHAINLINK GATE POST	155	7.50	24.6
MK # 2	GUY	225	8.20	26.9
MK # 3	METAL POWER POLE WITH GUY	279	15.10	49.5

Area Reference Monuments (used for Processing) Ref Mon # 1 HOPE CORS, 700013A Ref Mon # 2 IULM CORS Ref Mon # 3 LROC CORS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Vertical Determined By: NONE	
Elevation Datum: NONE	
Geoid Datum:	
Latitude	33 0 41.9038056
Longitude	92 20 11.9995836
Ellipsoid Height (M):	26.388
Geoid Height (M):	-26.038

Location Description
TO REACH THE STATION FROM THE JUNCTION OF THE ARKANSAS LOUISIANA iSTATE LINE AND STATE HIGHWAY 275, SOUTH OF STRONG, GO EAST ALONGi THE STATE LINE ON A GRAVEL ROAD 0.50 MILES TO WHERE THE POWER iLINE CROSSES THE GRAVEL ROAD AND TURN LEFT ON THE POWER LINE iRIGHT OF WAY AND GO 0.05 MILES TO A METAL GATE AND GO THROUGH THEi GATE FOR ANOTHER 0.05 MILE TO THE STATION MARK ON THE LEFT, iNORTHWEST 6.65 METERS OF A WITNESS POST. THE STATION MARK IS A iSTANDARD 64mm CAP STAMPED "700018A 2003" ON TOP OF A 1.22 METER iIRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700019	Date Monumented 10/21/2003	Monumented By AHTD	County UNION	Route 275	Job Number: 070241
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	444,406.0109	
Easting (M)	366,933.9670	
Elevation (M)*		
Northing (SFT)	1,458,022.0541	
Easting (SFT)	1,203,849.1901	
Elevation (SFT)*		

Convergence Angle	0	11	53.4105189
Scale Factor	1.000059966		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER WELL	169	9.30	30.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPE CORS, 700013A	
Ref Mon # 2 IULM CORS	
Ref Mon # 3 LROC CORS	

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 3 59.4284544
Longitude	92 21 14.6514024
Ellipsoid Height (M):	27.726
Geoid Height (M):	-26.068

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF THE ARKANSAS LOUISIANA iSTATE LINE AND STATE HIGHWAY 275, SOUTH OF STRONG, GO NORTH ON iHIGHWAY 275 3.95 MILES TO THE STATION MARK ON THE RIGHT, WEST i12.60 METERS OF A DIRT DRIVE AND EAST 34.1 METERS OF THE iCENTERLINE OF THE HIGHWAY AND EAST 24.80 METERS OF A WITNESS iPOST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700019 i2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE iGROUND.</p>

AZ Mark Station	700019A
Geodetic Azimuth	217 00 41
Grid Azimuth	217 12 34

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700019A	Date Monumented 10/21/2003	Monumented By AHTD	County UNION	Route 275	Job Number: 070241
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	444,139.6509	
Easting (M)	366,731.7190	
Elevation (M)*		
Northing (SFT)	1,457,148.1713	
Easting (SFT)	1,203,185.6481	
Elevation (SFT)*		

Convergence Angle	0	11	57.7540520
Scale Factor	1.000060669		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	HOPE CORS, 700013A
Ref Mon # 2	IULM CORS
Ref Mon # 3	LROC CORS

Comments

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 33 3 50.7601980

Longitude 92 21 22.4119980

Ellipsoid Height (M): 33.482

Geoid Height (M): -26.067

Location Description

TO REACH THE STATION FROM THE JUNCTION OF THE ARKANSAS LOUISIANA iSTATE LINE AND STATE HIGHWAY 275, SOUTH OF STRONG, GO NORTH ON iHIGHWAY 275 3.75 MILES TO THE STATION MARK ON THE LEFT, iNORTHWEST 14.00 METERS OF THE CENTERLINE OF THE HIGHWAY AND iNORTHWEST 3.55 METERS OF A WITNESS POST. THE STATION MARK IS A iSTANDARD 64mm CAP STAMPED "700019A 2003" ON TOP OF A 1.22 METER iIRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700020	Date Monumented 10/21/2003	Monumented By AHTD	County UNION	Route 275	Job Number: 070241
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	447,609.2689	
Easting (M)	366,723.1550	
Elevation (M)*		
Northing (SFT)	1,468,531.4097	
Easting (SFT)	1,203,157.5510	
Elevation (SFT)*		

Convergence Angle	0	11	58.1994587
Scale Factor	1.000051664		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	185	20.20	66.3
MK # 2	UNDER GROUND CABLE MARKER	13	20.70	67.9
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>HOPE CORS, 700013A</td> </tr> <tr> <td>Ref Mon # 2</td> <td>IULM CORS</td> </tr> <tr> <td>Ref Mon # 3</td> <td>LROC CORS</td> </tr> </table>	Ref Mon # 1	HOPE CORS, 700013A	Ref Mon # 2	IULM CORS	Ref Mon # 3	LROC CORS	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	HOPE CORS, 700013A						
Ref Mon # 2	IULM CORS						
Ref Mon # 3	LROC CORS						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 5 43.3758768
Longitude	92 21 23.2078068
Ellipsoid Height (M):	27.391
Geoid Height (M):	-26.082

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 129 AND HIGHWAY 275, SOUTH OF STRONG, GO NORTH ON HIGHWAY 275 0.1 MILES TO THE STATION MARK ON THE LEFT, WEST 21.50 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700020 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	700020A
Geodetic Azimuth	151 06 44
Grid Azimuth	151 18 42

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700020A	Date Monumented 10/21/2003	Monumented By AHTD	County UNION	Route 129	Job Number: 070241
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	446,970.4959	
Easting (M)	367,072.7020	
Elevation (M)*		
Northing (SFT)	1,466,435.7020	
Easting (SFT)	1,204,304.3565	
Elevation (SFT)*		

Convergence Angle	0	11	50.6079045
Scale Factor	1.000053297		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPE CORS, 700013A	
Ref Mon # 2 IULM CORS	
Ref Mon # 3 LROC CORS	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 5 22.6818852
Longitude	92 21 9.6439680
Ellipsoid Height (M):	14.003
Geoid Height (M):	-26.078

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 129 AND STATE HIGHWAY 275, SOUTH OF STRONG, GO SOUTH ON HIGHWAY 129 0.301 MILES TO THE STATION MARK ON THE RIGHT, NORTHWEST 7.80 METERS OF A DIRT TURN IN, SOUTHWEST 13.80 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTHEAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700020A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	700020A
Geodetic Azimuth	331 06 52
Grid Azimuth	331 18 42

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700021	Date Monumented 10/22/2003	Monumented By AHTD	County UNION	Route 82	Job Number: 070241
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	449,422.3510	
Easting (M)	365,066.0870	
Elevation (M)*		
Northing (SFT)	1,474,479.8299	
Easting (SFT)	1,197,720.9871	
Elevation (SFT)*		

Convergence Angle	0	12	34.1059789
Scale Factor	1.000047090		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	DROP INLET	18	3.25	10.7	
MK # 2	VACUME CLEANER PEDESTAL	188	9.80	32.2	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: HOPE CORS, 700013A	
Ref Mon # 2: IULM CORS	
Ref Mon # 3: LROC CORS	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 6 42.0329808
Longitude	92 22 27.3620280
Ellipsoid Height (M):	13.469
Geoid Height (M):	-26.094

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGHWAY 82, SOUTH OF EL DORADO, GO EAST ON HIGHWAY 82 FOR 16.50 MILES TO THE STATION ON THE RIGHT IN FRONT OF A CAR WASH, EAST 13.20 METERS OF A CONC DRIVE TO STRONG CAR WASH, SOUTH 12.30 METERS OF THE CENTERLINE OF THE HIGHWAY, AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700021 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700022	Date Monumented 10/20/2004	Monumented By AHTD	County UNION	Route 167	Job Number: 68,070280,070281,070373,07
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Zone Arkansas South	Zone Code 302	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 475,030.1281		Latitude 33 20 31.0660440
Easting (M) 350,146.4280		Longitude 92 32 7.9545516
Elevation (M)* 34.055		Ellipsoid Height (M): 12.024
		Geoid Height (M): -26.162

Northing (SFT) 1,558,494.6786		
Easting (SFT) 1,148,772.0725		
Elevation (SFT)* 111.729		

Convergence Angle 0 17 59.0582072		
Scale Factor 0.999990966		
Elevation Adjust. Factor 0.9999946557		
Combined Adjust. Factor 0.9999856218		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SW corner of bridge	121	3.70	12.1
MK # 2	Chain link fence gate post	319	12.75	41.8
MK # 3	end of a 15in. Pipe	289	10.90	35.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CORS Hope	3-Wire Elevations were ran from NGS A-201 in Job # 070268 by S5104 in April 2005(elev. 111.8216'). Updated elevation by Digital Levels ran from NGS marks X198, Y198, Z198, TT6T, & Y121 in June 2009 by crew S5105.
Ref Mon # 2 IULM	
Ref Mon # 3 UAM AFRC SIS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700023	Date Monumented 10/27/2004	Monumented By AHTD	County UNION	Route 15	Job Number: 070273
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	455,722.5080		
Easting (M)	330,231.0960		
Elevation (M)*	58.393		
Northing (SFT)	1,495,149.5950		
Easting (SFT)	1,083,433.1875		
Elevation (SFT)*	191.579		

Convergence Angle	0	25	7.0501399
Scale Factor	1.000032217		
Elevation Adjust. Factor	0.9999908363		
Combined Adjust. Factor	1.0000230530		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	82	12.90	42.3	700004A
MK # 2	FENCE CORNER	336	6.65	21.8	280 39 18
MK # 3					281 04 18

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 IULM, SHRV	3-Wire Levels ran from NGS BM Eldorado/ Z121/ Y121 by S5105 in Job 070273 in July 2006.
Ref Mon # 2 CSAL	
Ref Mon # 3 DQUA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700024	Date Monumented 10/27/2004	Monumented By AHTD	County UNION	Route 82	Job Number: 070273,070367
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	458,642.3860
Easting (M)	335,400.5830
Elevation (M)*	74.732
Northing (SFT)	1,504,729.2281
Easting (SFT)	1,100,393.4127
Elevation (SFT)*	245.183

Convergence Angle	0	23	15.8164684
Scale Factor	1.000025346		
Elevation Adjust. Factor	0.9999882722		
Combined Adjust. Factor	1.0000136179		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
THE STATION MARK IS LOCATED AT THE NORTHEAST CORNER OF THE STATE HIGHWAY 82 OVERPASS OVER STATE HIGHWAY 15, WEST OF EL DORADO, SOUTHEAST 9.5 METERS OF THE CENTERLINE OF HIGHWAY 15 AND SOUTHEAST 1.75 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700024 2004" ON TOP OF A 1.22 METERE IRON ROD DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER OF BRIDGE	288	1.90	6.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: IULM,SHRV	3-Wire Levels ran from NGS BM Eldorado/ Z121/ Y121 by S5105 in Job 070273 in July 2006.
Ref Mon # 2: CSAL	
Ref Mon # 3: DQUA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700024A	Date Monumented 10/27/2004	Monumented By AHTD	County UNION	Route 82	Job Number: 070273
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	458,795.0340	
Easting (M)	335,086.3420	
Elevation (M)*	72.248	
Northing (SFT)	1,505,230.0407	
Easting (SFT)	1,099,362.4404	
Elevation (SFT)*	237.033	

Convergence Angle	0	23	22.6285760
Scale Factor	1.000025002		
Elevation Adjust. Factor	0.9999886621		
Combined Adjust. Factor	1.0000136638		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 15 AND STATE HIGHWAY 82, WEST OF EL DORADO, GO WEST ON HIGHWAY 82 0.2 MILES TO THE STATION MARK IN THE MEDIAN, 5.7 METERS SOUTHWEST OF THE EDGE OF THE PAVEMENT OF THE WEST BOUND LANE, NORTHEAST 4.2 METERS OF THE EDGE OF THE PAVEMENT OF THE EAST BOUND LANE AND SOUTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "700024A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1					AZ Mark Station	700024
MK # 2					Geodetic Azimuth	115 31 10
MK # 3					Grid Azimuth	115 54 32

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 IULM,SHRV Ref Mon # 2 CSAL Ref Mon # 3 DQUA	3-Wire Levels ran from NGS BM Eldorado/ Z121/ Y121 by S5105 in Job 070273 in July 2006.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700025	Date Monumented 9/20/2005	Monumented By AHTD	County Union	Route 167	Job Number: 001914,070280,070281,070371
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	468,792.6770	
Easting (M)	343,268.1270	
Elevation (M)*	51.967	
Northing (SFT)	1,538,030.6411	
Easting (SFT)	1,126,205.5133	
Elevation (SFT)*	170.496	

Convergence Angle	0	20	27.1294597
Scale Factor	1.000003280		
Elevation Adjust. Factor	0.9999918447		
Combined Adjust. Factor	0.9999951247		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Southwest corner of porch	120	20.20	66.3
MK # 2	Water Meter	145	5.60	18.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124	Digital Levels ran from NGS marks X198, Y198, Z198, TT6T, & Y121 in June 2009 by crew S5105.
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 17 7.3607172
Longitude	92 36 32.5136304
Ellipsoid Height (M):	25.769
Geoid Height (M):	-26.169

Location Description
<p>To reach the station from the junction of Hwy-167 and Hwy-7 northeast of Eldorado go north on Hwy-167 for 3.20 miles to the station on the right. 50.20 feet southeast of the center of Hwy-167, 15.10 feet northwest of a gravel drive and 1.65 feet northwest of a witness post. The station mark is a standard 2 1/2 inch cap stamped "700025 2005" set on top of an 5/8 inch by 4 foot long iron rod and is just below the surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700025A	Date Monumented 9/20/2005	Monumented By AHTD	County Union	Route 167	Job Number: 001914,070280,070281,070371
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	469,300.0500	
Easting (M)	343,833.1590	
Elevation (M)*	59.399	
Northing (SFT)	1,539,695.2474	
Easting (SFT)	1,128,059.2892	
Elevation (SFT)*	194.877	

Convergence Angle	0	20	14.9725555
Scale Factor	1.000002241		
Elevation Adjust. Factor	0.9999906785		
Combined Adjust. Factor	0.9999929195		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Sign post "Kozy Kitchen"	112	11.90	39.0
MK # 2	SW corner of wooden building	59	30.10	98.8
MK # 3	Service pole	179	6.25	20.5

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM, IULM,S 197,K 124 Ref Mon # 2 700014,270005 070003,0700 Ref Mon # 3 T 83 N 81 070005 LROC UAM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital Levels ran from NGS marks X198, Y198, Z198, TT6T, & Y121 in June 2009 by crew S5105.</td> </tr> </table>	Comments	Digital Levels ran from NGS marks X198, Y198, Z198, TT6T, & Y121 in June 2009 by crew S5105.
Comments			
Digital Levels ran from NGS marks X198, Y198, Z198, TT6T, & Y121 in June 2009 by crew S5105.			

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 17 23.9377092
Longitude	92 36 10.7928756
Ellipsoid Height (M):	33.197
Geoid Height (M):	-26.169

Location Description
To reach the station from the junction of Hwy-167 and Hwy-7 northeast of El Dorado, go north on Hwy-167 for 3.75 miles to the station on the right. 50.85 feet southeast of the center of Hwy-167, 57.40 feet southwest of a gravel drive and 1.65 feet northwest of a witness post. The station mark is a 2 1/2 inch cap stamped "700025A 2005" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700026	Date Monumented 9/20/2005	Monumented By AHTD	County Union	Route 167	Job Number: 001914,070280,070281,070371
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	471,727.5471	
Easting (M)	346,183.5200	
Elevation (M)*	51.615	
Northing (SFT)	1,547,659.4608	
Easting (SFT)	1,135,770.4319	
Elevation (SFT)*	169.341	

Convergence Angle	0	19	24.4282781
Scale Factor	0.999997368		
Elevation Adjust. Factor	0.9999919000		
Combined Adjust. Factor	0.9999892680		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Concrete Right of Way marker	295	9.30	30.5
MK # 2	Power pole	238	26.20	86.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM, IULM,S 197,K 124 Ref Mon # 2 700014,270005 070003,0700 Ref Mon # 3 T 83 N 81 070005 LROC UAM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevation was arrived at by three wire leveling from NGS BM X 198 by Crew S5102. Digital Levels ran from NGS marks X198, Y198, Z198, TT6T, & Y121 in June 2009 by crew S5105.</td> </tr> </table>	Comments	Elevation was arrived at by three wire leveling from NGS BM X 198 by Crew S5102. Digital Levels ran from NGS marks X198, Y198, Z198, TT6T, & Y121 in June 2009 by crew S5105.
Comments			
Elevation was arrived at by three wire leveling from NGS BM X 198 by Crew S5102. Digital Levels ran from NGS marks X198, Y198, Z198, TT6T, & Y121 in June 2009 by crew S5105.			

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 18 43.1700840
Longitude	92 34 40.4853564
Ellipsoid Height (M):	25.445
Geoid Height (M):	-26.168

Location Description
To reach the station from the junction of Hwy-167 and Hwy-335 northeast of El Dorado, go north on Hwy-167 for 0.45 miles to the station on the left. 48.4 feet northwest of the center of Hwy-167,61 feet northeast of a gravel drive and 12.50 feet southeast of a witness post. The station mark is a 2 1/2 inch cap stamped "700026 2005" on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700026A	Date Monumented 9/20/2005	Monumented By AHTD	County Union	Route 167	Job Number: 001914,070280,070281,070371
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	472,302.0671	
Easting (M)	346,690.4690	
Elevation (M)*	60.520	
Northing (SFT)	1,549,544.3651	
Easting (SFT)	1,137,433.6470	
Elevation (SFT)*	198.555	

Convergence Angle	0	19	13.5291607
Scale Factor	0.999996237		
Elevation Adjust. Factor	0.9999905026		
Combined Adjust. Factor	0.9999867396		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Northeast end of 18 inch CMP		190	8.10	26.6
MK # 2	Gas meter		005	19.60	64.3
MK # 3	Water meter		353	21.40	70.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124	Elevation was arrived at by three wire leveling from NGS BM X 198 by Crew S5102 on 10/03/05. Digital Levels ran from NGS marks X198, Y198, Z198, TT6T, & Y121 in June 2009 by crew S5105.
Ref Mon # 2 700014,270005 070003,0700	
Ref Mon # 3 T 83 N 81 070005 LROC UAM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700027	Date Monumented 9/21/2011	Monumented By AHTD	County UNION	Route 7	Job Number: 070368
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	469,093.9439	
Easting (M)	337,401.0858	
Elevation (M)*	50.228	
Northing (SFT)	1,539,019.0476	
Easting (SFT)	1,106,956.7290	
Elevation (SFT)*	164.790	

Convergence Angle	0	22	34.0748331
Scale Factor	1.000002741		
Elevation Adjust. Factor	0.9999921176		
Combined Adjust. Factor	0.9999948586		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	HAND HELD,33-17-16, 92-40-19

Vertical Determined By: None

Elevation Datum:

Geoid Datum: Geoid09

Latitude 33 17 15.9477216

Longitude 92 40 19.3270764

Ellipsoid Height (M): 24.007

Geoid Height (M): -26.267

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 167, NORTH OF EL DORADO, GO NORTH ON HIGHWAY 7 2.8 MILES TO MARK ON THE LEFT IN MEDIAN. NORTHEAST 36.7 FEET OF CENTERLINE SOUTH BOUND LANE, SOUTHWEST 27.2 FEET OF CENTERLINE NORTH BOUND LANE AND EAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700027 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700028	Date Monumented 9/21/2011	Monumented By AHTD	County UNION	Route 7	Job Number: 070368
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas South</td> <td>302</td> </tr> <tr> <td>Horizontal Datum</td> <td>NAD 83 (1997)</td> </tr> <tr> <td>Northing (M)</td> <td>466,427.1816</td> </tr> <tr> <td>Easting (M)</td> <td>334,171.3230</td> </tr> <tr> <td>Elevation (M)*</td> <td>69.695</td> </tr> <tr> <td>Northing (SFT)</td> <td>1,530,269.8450</td> </tr> <tr> <td>Easting (SFT)</td> <td>1,096,360.4155</td> </tr> <tr> <td>Elevation (SFT)*</td> <td>228.656</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Convergence Angle</td> <td style="width: 10%;">0</td> <td style="width: 10%;">23</td> <td style="width: 30%;">43.5374458</td> </tr> <tr> <td>Scale Factor</td> <td colspan="3">1.000008293</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td colspan="3">0.9999890628</td> </tr> <tr> <td>Combined Adjust. Factor</td> <td colspan="3">0.9999973557</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 10px;"> SUPERCEDED CONTROL </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas South	302	Horizontal Datum	NAD 83 (1997)	Northing (M)	466,427.1816	Easting (M)	334,171.3230	Elevation (M)*	69.695	Northing (SFT)	1,530,269.8450	Easting (SFT)	1,096,360.4155	Elevation (SFT)*	228.656	Convergence Angle	0	23	43.5374458	Scale Factor	1.000008293			Elevation Adjust. Factor	0.9999890628			Combined Adjust. Factor	0.9999973557			Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Vertical Determined By:</td> <td style="width: 50%;">None</td> </tr> <tr> <td>Elevation Datum:</td> <td></td> </tr> <tr> <td>Geoid Datum:</td> <td>Geoid09</td> </tr> <tr> <td>Latitude</td> <td>33 15 48.6840420</td> </tr> <tr> <td>Longitude</td> <td>92 42 23.4360072</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>43.454</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-26.268</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">Location Description</p> <p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 335 SOUTH, NORTHWEST OF EL DORADO, GO SOUTH ON HIGHWAY 335 2.85 MILES TO MARK ON THE RIGHT. SOUTHWEST 127 FEET FROM EDGE OF CONCRETE DRIVEWAY AND WEST 19.3 FEET FROM CENTERLINE OF HIGHWAY 335 THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700028 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p> </div>	Vertical Determined By:	None	Elevation Datum:		Geoid Datum:	Geoid09	Latitude	33 15 48.6840420	Longitude	92 42 23.4360072	Ellipsoid Height (M):	43.454	Geoid Height (M):	-26.268
Zone	Zone Code																																																												
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Ellipsoid Height (M):	43.454																																																												
Geoid Height (M):	-26.268																																																												

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	224	27.43	90.0
MK # 2				
MK # 3				

AZ Mark Station	700028A
Geodetic Azimuth	
Grid Azimuth	

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Comments</p> <p>HAND HELD,33-15-49 92-42-24</p> </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700028A	Date Monumented 9/21/2011	Monumented By AHTD	County UNION	Route 7	Job Number: 070368
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	466,910.7818	
Easting (M)	334,518.0298	
Elevation (M)*	65.685	
Northing (SFT)	1,531,856.4566	
Easting (SFT)	1,097,497.9028	
Elevation (SFT)*	215.500	

Convergence Angle	0	23	36.1119847
Scale Factor	1.000007276		
Elevation Adjust. Factor	0.9999896920		
Combined Adjust. Factor	0.9999969680		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH 5 GUYS	38	30.72	100.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>HAND HELD,33-16-05 92-42-10</td> </tr> </table>	Comments	HAND HELD,33-16-05 92-42-10
Comments			
HAND HELD,33-16-05 92-42-10			

Vertical Determined By: None	
Elevation Datum:	
Geoid Datum:	Geoid09
Latitude	33 16 4.4581836
Longitude	92 42 10.1689272
Ellipsoid Height (M):	39.439
Geoid Height (M):	-26.268

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 335 SOUTH, NORTHWEST OF EL DORADO, GO SOUTH ON HIGHWAY 335 2.55 MILES TO MARK ON THE LEFT, NORTHEAST 33.4 FEET OF A GRAVEL DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700028A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700029	Date Monumented 9/21/2011	Monumented By AHTD	County UNION	Route HOLLY R	Job Number: 070368
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	464,220.7891	
Easting (M)	332,333.2842	
Elevation (M)*	69.961	
Northing (SFT)	1,523,031.0389	
Easting (SFT)	1,090,330.1166	
Elevation (SFT)*	229.529	

Convergence Angle	0	24	22.9451052
Scale Factor	1.000013009		
Elevation Adjust. Factor	0.9999890210		
Combined Adjust. Factor	1.0000020299		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	COMBINATION POLE	309	11.00	36.1	700029A
MK # 2	METER POLE	101	27.09	88.9	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	HAND HELD,33-14-37 92-43-34

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700029A	Date Monumented 9/21/2011	Monumented By AHTD	County UNION	Route HOLLY R	Job Number: 070368
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	464,391.8602	
Easting (M)	331,935.8912	
Elevation (M)*	73.247	
Northing (SFT)	1,523,592.2947	
Easting (SFT)	1,089,026.3364	
Elevation (SFT)*	240.311	

Convergence Angle	0	24	31.5627827
Scale Factor	1.000012648		
Elevation Adjust. Factor	0.9999885053		
Combined Adjust. Factor	1.0000011531		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	125	19.63	64.4
MK # 2	COMBINATION POLE WITH GUY AND LIGH	40	17.07	56.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>HAND HELD,33-14-42 92-43-49</td> </tr> </table>	Comments	HAND HELD,33-14-42 92-43-49
Comments			
HAND HELD,33-14-42 92-43-49			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 335 NORTH AND HIGHWAY 82, WEST, OF EL DORADO, GO NORTH ON HIGHWAY 335 2.65 MILES TO CROSS ROAD AND 4 WAY STOP, TURN LEFT ON MT. HOLLY ROAD AND GO 0.1 MILES TO MARK ON THE LEFT, WEST 15.0 FEET OF A CONCRETE DRIVEWAY, SOUTH 24.00 FEET FROM THE CENTERLINE OF MT. HOLLY ROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700029A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700030	Date Monumented 9/22/2011	Monumented By AHTD	County UNION	Route 82	Job Number: 070367
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	458,944.2528	
Easting (M)	340,472.8503	
Elevation (M)*	78.049	
Northing (SFT)	1,505,719.6027	
Easting (SFT)	1,117,034.6764	
Elevation (SFT)*	256.065	

Convergence Angle	0	21	26.2623015
Scale Factor	1.000024582		
Elevation Adjust. Factor	0.9999877518		
Combined Adjust. Factor	1.0000123335		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	317	13.71	45.0
MK # 2	SOUTHWEST CORNER OF ONE STORY BRICK BUILDING	55	20.24	66.4
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>HAND HELD 33-11-47, 92-38-18</td> </tr> </table>	Comments	HAND HELD 33-11-47, 92-38-18
Comments			
HAND HELD 33-11-47, 92-38-18			

Vertical Determined By: 3rd Order - Digital Level

Elevation Datum: NAVD 88

Geoid Datum: Geoid09

Latitude 33 11 47.1471072

Longitude 92 38 18.1663476

Ellipsoid Height (M): 51.784

Geoid Height (M): -26.260

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7, HIGHWAY 167, HIGHWAY 63 AND HIGHWAY 82, EAST OF EL DORADO GO EAST ON 82 0.20 MILES TO THE STATION MARK ON THE LEFT, 26.00 FEET NORTHEAST OF CENTERLINE OF HIGHWAY 82. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700030 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700030A	Date Monumented 9/22/2011	Monumented By AHTD	County UNION	Route 82B	Job Number: 070367
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	459,273.5619	
Easting (M)	340,032.1191	
Elevation (M)*	70.729	
Northing (SFT)	1,506,800.0110	
Easting (SFT)	1,115,588.7107	
Elevation (SFT)*	232.051	

Convergence Angle	0	21	35.8300726
Scale Factor	1.000023839		
Elevation Adjust. Factor	0.9999889004		
Combined Adjust. Factor	1.0000127391		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7, HIGHWAY 167, HIGHWAY 63 AND HIGHWAY 82, EAST OF EL DORADO GO WEST ON 82B 0.10 MILES TO THE STATION MARK ON THE LEFT, 48.8 FEET NORTHWEST FROM CENTER OF CONCRETE DRIVEWAY AND 42.0 FEET SOUTHEAST FROM CENTER OF CONCRETE DRIVEWAY AND SOUTHWEST 24.00 FEET OF CENTERLINE OF HIGHWAY 82B. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700030A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE WITH LIGHT AND GU	227	3.35	11.0	AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;"> HAND HELD 33-11-58, 92-38-35 </td> </tr> </table>	Comments	HAND HELD 33-11-58, 92-38-35
Comments			
HAND HELD 33-11-58, 92-38-35			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700031	Date Monumented 9/22/2011	Monumented By AHTD	County UNION	Route 82B	Job Number: 070367
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	460,221.7635	
Easting (M)	336,202.5942	
Elevation (M)*	79.969	
Northing (SFT)	1,509,910.9024	
Easting (SFT)	1,103,024.6778	
Elevation (SFT)*	262.366	

Convergence Angle	0	22	58.7158247
Scale Factor	1.000021751		
Elevation Adjust. Factor	0.9999874503		
Combined Adjust. Factor	1.0000092011		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH LIGHT	283	8.83	29.0
MK # 2	CONCRETE CURB CORNER	343	5.70	18.7
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>HAND HELD 33-12-28, 92-41-03</td> </tr> </table>	Comments	HAND HELD 33-12-28, 92-41-03
Comments			
HAND HELD 33-12-28, 92-41-03			

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid09
Latitude	33 12 27.7170084
Longitude	92 41 3.3531648
Ellipsoid Height (M):	53.718
Geoid Height (M):	-26.267

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7, HIGHWAY 167, HIGHWAY 63 AND HIGHWAY 82, EAST OF EL DORADO GO WEST ON 82B 2.7 MILES TO THE STATION MARK ON THE RIGHT, 24.0 FEET WEST FROM CENTER OF CONCRETE DRIVEWAY AND 31.7 FEET NORTH FROM CENTERLINE OF HIGHWAY 82B. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700031 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700031A	Date Monumented 9/22/2011	Monumented By AHTD	County UNION	Route 82B	Job Number: 070367
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	460,210.8626	
Easting (M)	335,686.0081	
Elevation (M)*	76.050	
Northing (SFT)	1,509,875.1384	
Easting (SFT)	1,101,329.8449	
Elevation (SFT)*	249.507	

Convergence Angle	0	23	9.8777618
Scale Factor	1.000021784		
Elevation Adjust. Factor	0.9999880654		
Combined Adjust. Factor	1.0000098492		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>HAND HELD 33-12-27, 92-41-23</td> </tr> </table>	Comments	HAND HELD 33-12-27, 92-41-23
Comments			
HAND HELD 33-12-27, 92-41-23			

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid09
Latitude	33 12 27.2506572
Longitude	92 41 23.2962108
Ellipsoid Height (M):	49.799
Geoid Height (M):	-26.268

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7, HIGHWAY 167, HIGHWAY 63 AND HIGHWAY 82, EAST OF EL DORADO GO WEST ON 82B 3.0 MILES TO THE STATION MARK ON THE LEFT, 14.2 FEET EAST FROM CENTERLINE OF CONCRETE DRIVEWAY 87.8 FEET WEST OF THE CENTER OF A CONCRETE DRIVE AND 40.2 FEET SOUTH FROM CENTERLINE OF HIGHWAY 82B AND NORTH 18.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700031A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700032	Date Monumented 9/22/2011	Monumented By AHTD	County UNION	Route 82	Job Number: 070367
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	460,397.3692	
Easting (M)	326,877.7611	
Elevation (M)*	65.034	
Northing (SFT)	1,510,487.0355	
Easting (SFT)	1,072,431.4545	
Elevation (SFT)*	213.365	

Convergence Angle	0	26	20.2550356
Scale Factor	1.000021507		
Elevation Adjust. Factor	0.9999897942		
Combined Adjust. Factor	1.0000113009		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	COMBINATION POLE	54	5.85	19.2	700032A
MK # 2	FENCE CORNER	323	27.73	91.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	HAND HELD 33-12-32, 92-47-29 <div style="height: 100px; border: 1px solid black;"></div>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700032A	Date Monumented 9/22/2011	Monumented By AHTD	County UNION	Route 82	Job Number: 070367
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	460,421.0890	
Easting (M)	326,231.5621	
Elevation (M)*	64.455	
Northing (SFT)	1,510,564.8562	
Easting (SFT)	1,070,311.3833	
Elevation (SFT)*	211.465	

Convergence Angle	0	26	34.2235423
Scale Factor	1.000021465		
Elevation Adjust. Factor	0.9999898851		
Combined Adjust. Factor	1.0000113499		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	AHTD RIGHT OF WAY MARKER	83	27.13	89.0
MK # 2	COMBINATION POLE	282	22.77	74.7
MK # 3	SOUTHWEST CORNER OF ONE STORY BRICK HOUSE	5	29.57	97.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>HAND HELD 33-12-32, 92-47-29</td> </tr> </table>	Comments	HAND HELD 33-12-32, 92-47-29
Comments			
HAND HELD 33-12-32, 92-47-29			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7, HIGHWAY 167, HIGHWAY 63 AND HIGHWAY 82, EAST OF EL DORADO GO WEST ON 82B 8.95 MILES TO THE STATION MARK ON THE RIGHT, 27.9 FEET NORTH FROM EDGE OF PAVEMENT OF HIGHWAY 82. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700032A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700033	Date Monumented 9/22/2011	Monumented By AHTD	County UNION	Route 82	Job Number: 070367
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	461,272.3931
Easting (M)	321,956.2846
Elevation (M)*	73.109
Northing (SFT)	1,513,357.8430
Easting (SFT)	1,056,284.9104
Elevation (SFT)*	239.857

Convergence Angle	0 28 6.7638063
Scale Factor	1.000019637
Elevation Adjust. Factor	0.9999885270
Combined Adjust. Factor	1.0000081638

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:		3rd Order - Digital Levels	
Elevation Datum:		NAVD 88	
Geoid Datum:		Geoid09	
Latitude	33 12	58.3818912	
Longitude	92 50	13.7428512	
Ellipsoid Height (M):		46.814	
Geoid Height (M):		-26.284	

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND HIGHWAY 335 NORTH, WEST OF EL DORADO GO WEST ON 82 6.0 MILES TO THE STATION MARK ON THE RIGHT, 177 FEET EAST OF LYNN FITE ROAD, NORTH 6.3 FEET FROM EDGE OF PAVEMENT OF HIGHWAY 82 AND SOUTH 22.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700033 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	11	6.86	22.5
MK # 2	FIRE HYDRANT	303	31.70	104.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<p>S5112 Tied this GPS Point by 3-Wire Digital Levels in January of 2013 from TBM 969 (Job #070367) that's based on Garver's 3-Wire Digital Levels from NGS 1st Order BM N 148 to NGS 2nd Order BM P 121 in 2012.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700033A	Date Monumented 9/22/2011	Monumented By AHTD	County UNION	Route 82	Job Number: 070367
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	461,346.4024
Easting (M)	321,435.1749
Elevation (M)*	79.446
Northing (SFT)	1,513,600.6552
Easting (SFT)	1,054,575.2363
Elevation (SFT)*	260.648

Convergence Angle	0 28 18.0392440
Scale Factor	1.000019482
Elevation Adjust. Factor	0.9999875325
Combined Adjust. Factor	1.0000070143

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND HIGHWAY 335 NORTH, WEST OF EL DORADO GO WEST ON 82 6.3 MILES TO THE STATION MARK ON THE RIGHT, NORTH 7.7 FEET FROM EDGE OF PAVEMENT OF HIGHWAY 82 AND SOUTH 22.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700033A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	AHTD RIGHT OF WAY MARKER	38	7.99	26.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments S5112 Tied this GPS Point by 3-Wire Digital Levels in January of 2013 from TBM 969 (Job #070367) that's based on Garver's 3-Wire Digital Levels from NGS 1st Order BM N 148 to NGS 2nd Order BM P 121 in 2012.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700034	Date Monumented 8/30/2017	Monumented By AHTD	County UNION	Route 335	Job Number: 070380
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	472,981.0115	0.0020			
Easting (M)	340,362.4080	0.0020			
Elevation (M)*	38.729				
Northing (SFT)	1,551,771.8686				
Easting (SFT)	1,116,672.3336				
Elevation (SFT)*	127.062				

Convergence Angle	0	21	30.5463612		
Scale Factor	0.999994989				
Elevation Adjust. Factor	0.9999939223				
Combined Adjust. Factor	0.9999889113				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGHWAY 335, EAST OF NORPHLET, GO SOUTH ON HIGHWAY 335 3.7 MILES TO THE MARK ON THE RIGHT, NORTH 14.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND ACROSS THE ROAD FROM A GATED DIRT ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "700034 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE	4	8.38	27.5	AZ Mark Station 700034A
MK # 2	CENTER OF GATE	171	19.20	63.0	Geodetic Azimuth
MK # 3	POWER POLE	163	21.03	69.0	Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARMO	ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM R 198 BY S5112 IN SEPT. 2017 FOR JOB #070380. LEVELED ELEVATIONS WERE USED AS CONSTRAINTS IN FINAL STATIC NETWORK ADJUSTMENT. INCORPORATED NGS 1ST ORDER BM X 196 INTO THE STATIC OBSERVATIONS AS A CHECK ON BM R 198.
Ref Mon # 2 ARCM	
Ref Mon # 3 ARHP, LTEC	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700034A	Date Monumented 8/30/2017	Monumented By AHTD	County UNION	Route 335	Job Number: 070380
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	472,539.8121 0.0020
Easting (M)	340,369.1952 0.0020
Elevation (M)*	37.648

Northing (SFT)	1,550,324.3669	
Easting (SFT)	1,116,694.6013	
Elevation (SFT)*	123.517	

Convergence Angle	0	21	30.3397648
Scale Factor	0.999995846		
Elevation Adjust. Factor	0.9999940919		
Combined Adjust. Factor	0.9999899379		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGHWAY 335, EAST OF NORPHLET, GO SOUTH ON HIGHWAY 335 3.7 MILES TO A GATED DIRT ROAD ON THE LEFT, TURN LEFT AND GO 1433 FEET TO THE MARK ON THE RIGHT. WEST 22.5 FEET OF THE CENTERLINE OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "700034A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCED GAS VALVE VENT	162	22.25	73.0
MK # 2	POWER POLE	145	24.38	80.0
MK # 3	POWER POLE W/GUY	343	19.51	64.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARMO Ref Mon # 2 ARCM Ref Mon # 3 ARHP, LTEC	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;"> ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM R 198 BY S5112 IN SEPT. 2017 FOR JOB #070380. LEVELED ELEVATIONS WERE USED AS CONSTRAINTS IN FINAL STATIC NETWORK ADJUSTMENT. INCORPORATED NGS 1ST ORDER BM X 196 INTO THE STATIC OBSERVATIONS AS A CHECK ON BM R 198. </td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM R 198 BY S5112 IN SEPT. 2017 FOR JOB #070380. LEVELED ELEVATIONS WERE USED AS CONSTRAINTS IN FINAL STATIC NETWORK ADJUSTMENT. INCORPORATED NGS 1ST ORDER BM X 196 INTO THE STATIC OBSERVATIONS AS A CHECK ON BM R 198.
Comments			
ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM R 198 BY S5112 IN SEPT. 2017 FOR JOB #070380. LEVELED ELEVATIONS WERE USED AS CONSTRAINTS IN FINAL STATIC NETWORK ADJUSTMENT. INCORPORATED NGS 1ST ORDER BM X 196 INTO THE STATIC OBSERVATIONS AS A CHECK ON BM R 198.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700035	Date Monumented 10/19/2017	Monumented By AHTD	County UNION	Route 82	Job Number: 070459
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	449,425.4224	0.0030			
Easting (M)	365,368.7545	0.0030			
Elevation (M)*					
Northing (SFT)	1,474,489.9067				
Easting (SFT)	1,198,713.9887				
Elevation (SFT)*					

Convergence Angle	0	12	27.5726994
Scale Factor	1.000047079		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END CONC CULVERT	89	13.11	43.0
MK # 2	TELEPHONE BOX AND POWER POLE	45	23.16	76.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM Ref Mon # 2 ARMO Ref Mon # 3 IULM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>GPS DERIVED ELEV. BASED ON CORS SITES ARCM & ARMO HELD FIXED IN STATIC NETWORK ADJUSTMENT.</td> </tr> </table>	Comments	GPS DERIVED ELEV. BASED ON CORS SITES ARCM & ARMO HELD FIXED IN STATIC NETWORK ADJUSTMENT.
Comments			
GPS DERIVED ELEV. BASED ON CORS SITES ARCM & ARMO HELD FIXED IN STATIC NETWORK ADJUSTMENT.			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 129S AND STATE HIGHWAY 275N, IN STRONG, GO WEST ON HIGHWAY 82 0.85 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF THE HIGHWAY 22.5'. THE MARK IS A STANDARD 2" CAP STAMPED "2017 700035" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 700035A	Date Monumented 10/19/2017	Monumented By AHTD	County UNION	Route 82	Job Number: 070459
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	449,439.5629	0.0030			
Easting (M)	365,877.0543	0.0030			
Elevation (M)*					
Northing (SFT)	1,474,536.2993				
Easting (SFT)	1,200,381.6356				
Elevation (SFT)*					

Convergence Angle	0	12	16.6013927
Scale Factor	1.000047039		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	COMBINATION POLE	264	11.88	39.0	700035
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	GPS DERIVED ELEV. BASED ON CORS SITES ARCM & ARMO HELD FIXED IN STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARMO	
Ref Mon # 3 IULM	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710001 RESET	Date Monumented 8/30/2002	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: 080229, R80065
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	117,376.2781	
Easting (M)	364,600.0240	
Elevation (M)*		
Northing (SFT)	385,092.0057	
Easting (SFT)	1,196,191.9121	
Elevation (SFT)*		

Convergence Angle	0	13	36.2901756
Scale Factor	0.999941610		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	344	9.20	30.2	AZ Mark Station 710001A
MK # 2	CROSS TIE GATE POST	312	2.34	7.7	Geodetic Azimuth 349 54 27
MK # 3	CROSS TIE BRACE POST	254	1.28	4.2	Grid Azimuth 350 08 04

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HEBEPORT	
Ref Mon # 2 PJTC CAMPUS	
Ref Mon # 3 AHTD LITTLE ROCK	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710002	Date Monumented 10/29/1996	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: RX0021
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	151,295.2379	
Easting (M)	353,385.0970	
Elevation (M)*	389.112	
Northing (SFT)	496,374.4597	
Easting (SFT)	1,159,397.6057	
Elevation (SFT)*	1,276.612	

Convergence Angle	0	17	58.9830971
Scale Factor	0.999937830		
Elevation Adjust. Factor	0.9999389394		
Combined Adjust. Factor	0.9998767732		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST SIGN POST "ANTIQUE WAREH	130	32.57	106.9
MK # 2	SOUTHEAST CORNER OF METAL BUILDING	78	13.78	45.2
MK # 3	SOUTHEAST END OF METAL PIPE UNDER H	318	34.20	112.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 VERONA	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING TBM-4 ON JOB NO. RX0021 ELEVATION = 387.299 METERS.
Ref Mon # 2 EVANS AZ	
Ref Mon # 3 640001	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710002A	Date Monumented 10/29/1996	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: RX0021
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 150,772.5380		Latitude 35 41 28.5978588
Easting (M) 353,781.9590		Longitude 92 30 38.3503284
Elevation (M)* 404.794		Ellipsoid Height (M): 376.221
		Geoid Height (M): -28.573

Northing (SFT) 494,659.5684		
Easting (SFT) 1,160,699.6438		
Elevation (SFT)* 1,328.062		

Convergence Angle 0 17 49.7344531		
Scale Factor 0.999937674		
Elevation Adjust. Factor 0.9999364787		
Combined Adjust. Factor 0.9998741566		

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 110 IN BOTKINBURG GO SOUTHERLY ON HWY-65 FOR 0.80 KM. (0.50 MI.) TO THE STATION ON THE LEFT. 9.35 METERS NORTHEAST OF THE CENTER OF HWY-65 AND 11.82 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "710002A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	129	35.50	116.5
MK # 2	NORTH CORNER OF A HEADWALL	179	30.21	99.1
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 VERONA	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING TBM-3 ON JOB RX0021 ELEVATION = 391.135 METERS.
Ref Mon # 2 EVANS AZ	
Ref Mon # 3 640001	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710003	Date Monumented 10/29/1996	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: 21,08_2,080468,Mobile LiDAI
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	157,360.0705	
Easting (M)	352,766.0447	
Elevation (M)*	438.165	
Northing (SFT)	516,272.1646	
Easting (SFT)	1,157,366.5983	
Elevation (SFT)*	1,437.545	

Convergence Angle	0	18	14.0564664
Scale Factor	0.999940136		
Elevation Adjust. Factor	0.9999312424		
Combined Adjust. Factor	0.9998713825		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	45	2.1862548
Longitude	92	31	20.1493596
Ellipsoid Height:	409.006		
Grid Northing (Meters)	157,360.4579		
Grid Easting (Meters)	352,766.0120		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	28	5.58	18.3
MK # 2	TELEPHONE JUNCTION BOX	357	20.40	66.9
MK # 3	NONE			

<table style="width: 100%;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>VERONA</td> </tr> <tr> <td>Ref Mon # 2</td> <td>EVANS AZ</td> </tr> <tr> <td>Ref Mon # 3</td> <td>640001</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	VERONA	Ref Mon # 2	EVANS AZ	Ref Mon # 3	640001	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.</td> </tr> </table>	Comments	ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	VERONA										
Ref Mon # 2	EVANS AZ										
Ref Mon # 3	640001										
Comments											
ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.											

Location Description	
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 254 IN DENNARD GO SOUTHERLY ON HWY-65 FOR 0.72 KM. (0.45 MI.) TO THE STATION ON THE LEFT. 15.10 METERS EAST-NORTHEAST OF THE CENTER OF HWY-65 AND 3.38 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "710003 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>	

AZ Mark Station	710003A
Geodetic Azimuth	346 37 52.09189
Grid Azimuth	346 56 06.14353

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710003A	Date Monumented 10/29/1996	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: 21,08_2,080468,Mobile LiDAI
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	157,861.0865
Easting (M)	352,649.7764
Elevation (M)*	459.474
Northing (SFT)	517,915.9146
Easting (SFT)	1,156,985.1414
Elevation (SFT)*	1,507.456

Convergence Angle	0 18 16.8111895
Scale Factor	0.999940367
Elevation Adjust. Factor	0.9999278988
Combined Adjust. Factor	0.9998682701

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	45	18.4226436
Longitude	92	31	24.8832840
Ellipsoid Height:	430.246		
Grid Northing (Meters)	157,861.4690		
Grid Easting (Meters)	352,649.7460		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST END OF CONCRETE CULVERT	329	28.07	92.1
MK # 2	NORTHWEST END OF METAL DRAIN PIPE	168	30.48	100.0
MK # 3	WOODEN FENCE POST	344	1.45	4.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 VERONA Ref Mon # 2 EVANS AZ Ref Mon # 3 640001	ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710004	Date Monumented 10/29/1996	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: RX0021
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	160,502.1240	
Easting (M)	352,159.3580	
Elevation (M)*	438.247	
Northing (SFT)	526,580.7185	
Easting (SFT)	1,155,376.1604	
Elevation (SFT)*	1,437.815	

Convergence Angle	0	18	28.4996941
Scale Factor	0.999941686		
Elevation Adjust. Factor	0.9999312295		
Combined Adjust. Factor	0.9998729195		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 254 IN DENNARD GO NORTHERLY ON HWY-65 FOR 2.74 KM. (1.70 MI.) TO THE STATION ON THE RIGHT JUST BEFORE DROPPING OFF OF A STEEP HILL. 15.10 METERS NORTH-NORTHEAST OF THE CENTER OF HWY-65, 11.0 METERS WEST-NORTHWEST OF THE CENTER OF A PAVED DRIVEWAY TO THE "DENNARD COUNTRY STORE" AND 0.50 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "710004 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF METAL DRAIN PIPE	165	4.30	14.1
MK # 2	SIGN ON METAL POLE	316	9.15	30.0
MK # 3	POWER POLE	332	15.50	50.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 VERONA Ref Mon # 2 EVANS AZ Ref Mon # 3 640001	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710004A	Date Monumented 10/29/1996	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: RX0021
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	160,206.9220	
Easting (M)	352,366.7970	
Elevation (M)*	437.660	
Northing (SFT)	525,612.2099	
Easting (SFT)	1,156,056.7332	
Elevation (SFT)*	1,435.890	

Convergence Angle	0	18	23.6566869
Scale Factor	0.999941531		
Elevation Adjust. Factor	0.9999313216		
Combined Adjust. Factor	0.9998728566		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER OF METAL DRAIN PIPE	183	8.69	28.5
MK # 2	SOUTHEAST END OF METAL DRAIN PIPE UNDER DRAINAGE DITCH	321	36.55	119.9
MK # 3	WOODEN FENCE CORNER POST	143	8.57	28.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 VERONA	
Ref Mon # 2 EVANS AZ	
Ref Mon # 3 640001	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 46 34.4769132
Longitude	92 31 36.6460572
Ellipsoid Height (M):	409.071
Geoid Height (M):	-28.589

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 254 IN DENNARD GO NORTHERLY ON HWY-65 FOR 2.41 KM. (1.50 MI.) TO THE STATION ON THE RIGHT. 14.35 METERS NORTHEAST OF THE CENTER OF HWY-65, 11.90 METERS NORTH-NORTHWEST OF THE CENTER OF A FIELD ENTRANCE AND 0.77 METERS SOUTHWEST OF A WITNESS POST SET IN A FENCELINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "710004A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	710004
Geodetic Azimuth	324 35 51.71185
Grid Azimuth	324 54 15.35717

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710005	Date Monumented 10/23/2000	Monumented By AHTD	County VAN BUREN	Route 330	Job Number: 080143, Mobile LiDAR-CLS
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	132,598.7650	
Easting (M)	360,042.0626	
Elevation (M)*		
Northing (SFT)	435,034.4482	
Easting (SFT)	1,181,238.0004	
Elevation (SFT)*		

Convergence Angle	0	15	22.9618243
Scale Factor	0.999936419		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	50	2.75	9.0
MK # 2	WEST END OF A CMP	122	8.30	27.2
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TRI COUNTY Ref Mon # 2 HEBEPORT Ref Mon # 3 PJTC CAMPUS	Mark was found Disturbed in December 2009 by crew S5105.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710005A	Date Monumented 10/23/2000	Monumented By AHTD	County VAN BUREN	Route 9	Job Number: 0143, Mobile LiDAR-CLS, 0804
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 132,499.0798		Geoid Datum: Geoid 09
Easting (M) 359,640.9394		Latitude 35 31 36.5793600
Elevation (M)* 169.958		Longitude 92 26 42.0243468
Northing (SFT) 434,707.3976		Ellipsoid Height (M): 141.955
Easting (SFT) 1,179,921.9820		Geoid Height (M): -27.860
Elevation (SFT)* 557.604		

Convergence Angle 0 15 32.2165705	Location Description
Scale Factor 0.999936435	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65, STATE HIGHWAY 9 AND STATE HIGHWAY 330, LOCATED IN CHOCTAW, GO WEST ON STATE HIGHWAY 9 FOR 0.33 KM (0.21 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.50 METERS NORTH OF THE CENTER OF STATE HIGHWAY 9 AND 0.36 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "710005A 2000" SET ON TOP OF AN IRON ROD 1.00 METER LONG AND DRIVE FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 413.363 METER.</p>
Elevation Adjust. Factor 0.9999733287	
Combined Adjust. Factor 0.9999097654	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station 710005
MK # 2	NONE				Geodetic Azimuth 75 47 05.64259
MK # 3	NONE				Grid Azimuth 76 02 37.85271

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TRI COUNTY	<p>ELEV. FROM DIGITAL LEVELS BY S5105 IN MARCH OF 2012 UNDER JOB #080423 FROM TBM #909 OF JOB #080363 TO GPS MONUMENT 710007A. TBM #909 WAS ESTABLISHED BY DIGITAL LEVELS FROM NGS H 210 & 710007A WAS ESTABLISHED BY 3WR LEVELS FROM NGS N 48.</p>
Ref Mon # 2 HEBEPOR	
Ref Mon # 3 PJTC CAMPUS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710006	Date Monumented 8/30/2002	Monumented By AHTD	County VAN BUREN	Route 92	Job Number: 80253, 080363, 080423, FSX00
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - 3 Wire Level
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 123,489.3008		Geoid Datum: Geoid 96
Easting (M) 363,303.4629		Latitude 35 26 44.7342648
Elevation (M)* 216.696		Longitude 92 24 15.1766100
Northing (SFT) 405,147.8144		Ellipsoid Height (M): 188.827
Easting (SFT) 1,191,938.1112		Geoid Height (M): -27.812
Elevation (SFT)* 710.942		

Convergence Angle 0 14 6.7660005	
Scale Factor 0.999938841	
Elevation Adjust. Factor 0.9999659946	
Combined Adjust. Factor 0.9999048376	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PIPE FENCE POST	265	1.35	4.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 PJTC CAMPUS Ref Mon # 2 HEBEPORT Ref Mon # 3 AHTD LITTLE ROCK	3 Wire Levels were ran by crew S5105 in Dec. 09 from 2nd order NGS mark H 210.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710006A	Date Monumented 8/30/2002	Monumented By AHTD	County VAN BUREN	Route 92	Job Number: 080253
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	123,076.8401	
Easting (M)	363,037.7080	
Elevation (M)*		
Northing (SFT)	403,794.5996	
Easting (SFT)	1,191,066.2137	
Elevation (SFT)*		

Convergence Angle	0	14	12.8588251
Scale Factor	0.999939000		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	GUY POLE	197	8.30	27.2		710006
MK # 2						32 33 17
MK # 3						32 47 30

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 PJTC CAMPUS Ref Mon # 2 HEBEPORT Ref Mon # 3 AHTD LITTLE ROCK	Mark was found Disturbed in December 2009 by crew S5105.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710007	Date Monumented 10/12/2004	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: 0283, Mobile LiDAR-CLS, 0804
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum: Geoid 09		
Northing (M) 135,612.8611		Latitude 35 33 17.5566960
Easting (M) 359,229.8100		Longitude 92 26 58.9081056
Elevation (M)* 231.809		Ellipsoid Height (M): 203.876
		Geoid Height (M): -27.855

Northing (SFT) 444,923.1951		
Easting (SFT) 1,178,573.1350		
Elevation (SFT)* 760.527		

Convergence Angle 0 15 42.0412150		
Scale Factor 0.999936066		
Elevation Adjust. Factor 0.9999636229		
Combined Adjust. Factor 0.9998996913		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 65 AND 336 SOUTH OF CLINTON, GO SOUTH ON HIGHWAY 65 FOR 0.40 MILES TO THE STATION ON THE RIGHT. 17.9 METERS WEST OF THE CENTER OF HIGHWAY 65, 26.95 METERS NORTH OF A DRIVEWAY AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "710007 2004" SET ON TOP OF AN IRON ROD 0.90 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.				

Location Reference Marks					
	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTH END OF A HEADWALL	22	11.20	36.7	AZ Mark Station 710007A
MK # 2	CONCRETE RIGHT OF WAY MARKER	194	15.40	50.5	Geodetic Azimuth 001 13 43
MK # 3					Grid Azimuth 001 29 25

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT	OLD ELEV. (231.8270m) BY 3-wire levels ran from NGS N48 in Job# 080283 by S5101/S5111 in June 2005. UPDATED ELEV. FROM DIGITAL LEVELS BY S5105 IN MARCH OF 2012 UNDER JOB #080423 FROM TBM #909 OF JOB #080363 TO GPS MONUMENT 710007A. TBM #909 WAS ESTABLISHED BY DIGITAL LEVELS FROM NGS H 210 & 710007A WAS ESTABLISHED BY 3WR LEVELS FROM NGS N 48.
Ref Mon # 2 BUTLER	
Ref Mon # 3 LROC C.O.R.S.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710007A	Date Monumented 10/12/2004	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: 0283, Mobile LiDAR-CLS, 0804
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 136,077.9990		Geoid Datum: Geoid 09
Easting (M) 359,241.9110		Latitude 35 33 32.6515392
Elevation (M)* 239.339		Longitude 92 26 58.5119364
Northing (SFT) 446,449.2351		Ellipsoid Height (M): 211.385
Easting (SFT) 1,178,612.8363		Geoid Height (M): -27.853
Elevation (SFT)* 785.231		

Convergence Angle	0	15	41.8106845
Scale Factor	0.999936031		
Elevation Adjust. Factor	0.9999624413		
Combined Adjust. Factor	0.9998984748		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SW CORNER OF WOODEN BUILDING	21	23.45	76.9
MK # 2	TELEPHONE RISER BOX	132	1.20	3.9
MK # 3	WATER METER	11	11.70	38.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT	3-wire levels ran from NGS N48 in Job# 080283 by S5101/S5111 in June 2005.
Ref Mon # 2 BUTLER	
Ref Mon # 3 LROC C.O.R.S.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710008	Date Monumented 10/12/2004	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: 3,08_2,080468,Mobile LiDAF
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 139,979.2270		Geoid Datum: Geoid 96
Easting (M) 358,720.3710		Latitude 35 35 39.1625232
Elevation (M)* 155.147		Longitude 92 27 19.9388232
Northing (SFT) 459,248.5139		Ellipsoid Height (M): 127.270
Easting (SFT) 1,176,901.7505		Geoid Height (M): -27.842
Elevation (SFT)* 509.011		

Convergence Angle 0 15 54.2789713	
Scale Factor 0.999935950	
Elevation Adjust. Factor 0.9999756530	
Combined Adjust. Factor 0.9999116046	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT	ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. OF 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING. **PREVIOUS ELEV. (155.1478m) BY 3-wire levels ran from NGS N48 in Job# 080390 by crew s5104 in Oct 2010.
Ref Mon # 2 BUTLER	
Ref Mon # 3 LROC C.O.R.S.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710008A	Date Monumented 10/12/2004	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: 0283,080468,Mobile LiDAR-C
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 140,316.1681		Geoid Datum: Geoid 96
Easting (M) 358,404.4750		Latitude 35 35 50.0480916
Elevation (M)* 155.667		Longitude 92 27 32.5508220
Northing (SFT) 460,353.9615		Ellipsoid Height (M): 127.828
Easting (SFT) 1,175,865.3484		Geoid Height (M): -27.843
Elevation (SFT)* 510.718		

Convergence Angle 0 16 1.6178824	
Scale Factor 0.999935961	
Elevation Adjust. Factor 0.9999755713	
Combined Adjust. Factor 0.9999115339	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER BOX	251	3.45	11.3
MK # 2	NORTHEAST END OF BILLBOARD	162	23.80	78.1
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT	ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. OF 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING. **PREVIOUS ELEV. (155.671m) BY 3-wire levels ran from NGS N48 in Job# 080390 by crew s5104 in Oct 2010.
Ref Mon # 2 BUTLER	
Ref Mon # 3 LROC C.O.R.S.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710010	Date Monumented 6/3/2010	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: 080391
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	119,103.2231	
Easting (M)	364,431.5700	
Elevation (M)*	205.759	
Northing (SFT)	390,757.8245	
Easting (SFT)	1,195,639.2426	
Elevation (SFT)*	675.062	

Convergence Angle	0	13	40.3329007
Scale Factor	0.999940734		
Elevation Adjust. Factor	0.9999677107		
Combined Adjust. Factor	0.9999084466		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST CORNER OF CHURCH SIGN	36	28.35	93.0
MK # 2	EAST END OF FENCE ALONG DRIVE	155	27.43	90.0
MK # 3	CORNER OF E/W & N/S FENCE	222	24.08	79.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHR Ref Mon # 3 ARBT	3-Wire Digital Level ran from TBM-906 to PN 1 from job # 080363 by S5105 in Oct. 2010.

Location Description	
TO REACH THE STATION FROM JCT. US HWY 124 & 65, GO NORTH ON US HWY 65 1.2 MILES TO THE STATION ON THE LEFT. LOCATED IN THE S/E CORNER OF A BAPTIST CHURCH PARKING LOT. 175 FEET S/E OF S/E CORNER OF THE MAIN STEP OF THE CHURCH. 1 1/2 FEET EAST OF A WITNESS POST. THE STATION MARK IS A 2 1/2 INCH CAP STAMPED "710010 2010" SET ON TOP OF A 5/8 INCH BY 4 FEET LONG REBAR AND IS 0.20 FOOT BELOW THE SURFACE.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710010A	Date Monumented 6/3/2010	Monumented By AHTD	County VAN BUREN	Route *	Job Number: 080391
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	119,220.3601	
Easting (M)	363,921.2780	
Elevation (M)*	206.007	
Northing (SFT)	391,142.1314	
Easting (SFT)	1,193,965.0596	
Elevation (SFT)*	675.875	

Convergence Angle	0	13	52.1127968
Scale Factor	0.999940678		
Elevation Adjust. Factor	0.9999676718		
Combined Adjust. Factor	0.9999083517		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	66	34.44	113.0
MK # 2	EAST END OF 8" METAL CULVERT	323	11.03	36.2
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARLR Ref Mon # 3 ARHR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Digital Level ran from TBM-906 to PN 1 from job # 080363 by S5105 in Oct. 2010.</td> </tr> </table>	Comments	3-Wire Digital Level ran from TBM-906 to PN 1 from job # 080363 by S5105 in Oct. 2010.
Comments			
3-Wire Digital Level ran from TBM-906 to PN 1 from job # 080363 by S5105 in Oct. 2010.			

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 24 26.2921356
Longitude	92 23 49.9949196
Ellipsoid Height (M):	178.174
Geoid Height (M):	-27.824

Location Description
TO REACH THE STATION FROM JCT. US HWY 124 & 65, GO NORTH ON US HWY 65 1.3 MILES TO THE INTERSECTION OF HIGHWAY 65 AND SULPHUR ROAD, GO WEST ON SULPHUR ROAD 0.3 MILES TO THE STATION ON THE LEFT. 20 FEET NORTH OF THE CENTERLINE OF THE ROAD, 22 FEET EAST OF A DRIVE AND 2 FEET NORTH OF A WITNESS POST. THE STATION MARK IS A 2 1/2 INCH CAP STAMPED "710010A 2010" SET ON TOP OF A 5/8 INCH BY 4 FEET LONG REBAR AND IS 0.20 FOOT BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710011	Date Monumented 6/3/2010	Monumented By AHTD	County VAN BIREN	Route 65	Job Number: 0391,Mobie LiDAR-CLS,0804
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 127,880.2151		Geoid Datum: Geoid 96
Easting (M) 361,199.4480		Latitude 35 29 6.9267624
Elevation (M)* 303.589		Longitude 92 25 39.3650400
Northing (SFT) 419,553.6724		Ellipsoid Height (M): 275.780
Easting (SFT) 1,185,035.1890		Geoid Height (M): -27.830
Elevation (SFT)* 996.024		

Convergence Angle 0 14 55.7551745	
Scale Factor 0.999937420	
Elevation Adjust. Factor 0.9999523593	
Combined Adjust. Factor 0.9998897823	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHR Ref Mon # 3 ARBT	OLD ELEV. (303.6090m) BY 3-wire levels ran from NGS N48 in Job# 080283 by S5101/S5111 in June 2005. UPDATED ELEV. FROM DIGITAL LEVELS BY S5105 IN MARCH OF 2012 UNDER JOB #080423 FROM TBM #909 OF JOB #080363 TO GPS MONUMENT 710007A. TBM #909 WAS ESTABLISHED BY DIGITAL LEVELS FROM NGS H 210 & 710007A WAS ESTABLISHED BY 3WR LEVELS FROM NGS N 48.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710011A	Date Monumented 6/3/2010	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: 1,Mobie LiDAR-CLS,080363,0
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 127,455.8081		Geoid Datum: Geoid 96
Easting (M) 361,293.3880		Latitude 35 28 53.1684300
Elevation (M)* 314.480		Longitude 92 25 35.5651896
Northing (SFT) 418,161.2637		Ellipsoid Height (M): 286.663
Easting (SFT) 1,185,343.3905		Geoid Height (M): -27.827
Elevation (SFT)* 1,031.758		

Convergence Angle 0 14 53.5440449	Location Description TO REACH THE STATION FROM JCT. US HWY 65 & US HWY 92, GO NORTH ON US HWY 65 2.7 MILES TO THE STATION ON THE LEFT. 93 FEET WEST OF C/L US HWY 65. 72 FEET SOUTH OF GRAVEL DRIVE. 1.5 FEET EAST OF A WITNESS POST. THE STATION MARK IS A 2 1/2 INCH CAP STAMPED "710011A 2010" SET ON TOP OF A 5/8 INCH BY 4 FEET LONG REBAR AND IS 0.20 FOOT BELOW THE SURFACE.
Scale Factor 0.999937537	
Elevation Adjust. Factor 0.9999506502	
Combined Adjust. Factor 0.9998881903	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	145	17.07	56.0
MK # 2	N/S & E/W FENCE CORNER	219	26.85	88.1
MK # 3	SOUTH END OF AN 18" CULVERT	343	18.59	61.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	OLD ELEV. (314.4900m) BY 3-wire levels ran from NGS N48 in Job# 080283 by S5101/S5111 in June 2005. UPDATED ELEV. FROM DIGITAL LEVELS BY S5105 IN MARCH OF 2012 UNDER JOB #080423 FROM TBM #909 OF JOB #080363 TO GPS MONUMENT 710007A. TBM #909 WAS ESTABLISHED BY DIGITAL LEVELS FROM NGS H 210 & 710007A WAS ESTABLISHED BY 3WR LEVELS FROM NGS N 48.
Ref Mon # 2 ARLR	
Ref Mon # 3 ARHR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710012	Date Monumented 2/21/2012	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: 2,080468,Mobile LiDAR-CI
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 143,257.1870		Geoid Datum: Geoid 96
Easting (M) 358,577.2315		Latitude 35 37 25.5050832
Elevation (M)* 274.896		Longitude 92 27 26.2301148
Northing (SFT) 470,002.9543		Ellipsoid Height (M): 247.095
Easting (SFT) 1,176,432.1337		Geoid Height (M): -27.817
Elevation (SFT)* 901.888		

Convergence Angle 0 15 57.9398684	Location Description
Scale Factor 0.999936172	<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 1.4 MILES TO MARK ON THE LEFT, WEST 8.3 FEET FROM THE EDGE OF HIGHWAY 65 PAVEMENT AND EAST 19.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710012 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>
Elevation Adjust. Factor 0.9999568617	
Combined Adjust. Factor 0.9998930365	

SUPERCEDED CONTROL				
Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	FIRE HYDRANT	349	22.19	72.8	710012A
MK # 2	COMBINATION POLE	346	18.68	61.3	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	<p>ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.</p>
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710012A	Date Monumented 2/21/2012	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: §_2,080468,Mobile LiDAR-CI
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 143,842.8039		Geoid Datum: Geoid 96
Easting (M) 358,579.4590		Latitude 35 37 44.5076076
Elevation (M)* 304.869		Longitude 92 27 26.2496772
Northing (SFT) 471,924.2658		Ellipsoid Height (M): 277.081
Easting (SFT) 1,176,439.4417		Geoid Height (M): -27.811
Elevation (SFT)* 1,000.224		

Convergence Angle 0 15 57.9512517	
Scale Factor 0.999936240	
Elevation Adjust. Factor 0.9999521584	
Combined Adjust. Factor 0.9998884015	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	50	9.14	30.0
MK # 2	GAS METER	15	19.57	64.2
MK # 3	LIGHT POLE	136	17.49	57.4

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.</td> </tr> </table>	Comments	ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.
Comments			
ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710013	Date Monumented 2/21/2012	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: §_2,080468,Mobile LiDAR-CI
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum: Geoid 96		
Northing (M) 146,425.1213		Latitude 35 39 8.2717632
Easting (M) 358,400.2680		Longitude 92 27 33.8503356
Elevation (M)* 393.832		Ellipsoid Height (M): 366.064
		Geoid Height (M): -27.787

Northing (SFT) 480,396.4188		
Easting (SFT) 1,175,851.5459		
Elevation (SFT)* 1,292.097		

Convergence Angle 0 16 2.3740682		
Scale Factor 0.999936638		
Elevation Adjust. Factor 0.9999381987		
Combined Adjust. Factor 0.9998748407		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 3.45 MILES TO MARK ON THE RIGHT, SOUTH 132 FEET OF THE CENTER OF ASPHALT DRIVE, EAST 43.5 FEET FROM THE EDGE OF HIGHWAY 65 PAVEMENT AND WEST 18.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710013 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.				

Location Reference Marks				
Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 COMBINATION POLE WITH 2 GUY WIRES	14	18.65	61.2	AZ Mark Station 710013A
MK # 2				Geodetic Azimuth
MK # 3				Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710013A	Date Monumented 2/21/2012	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: §_2,080468,Mobile LiDAR-CI
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td colspan="2">3rd Order - Digital Levels</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2">Geoid 96</td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>39 21.1549212</td> </tr> <tr> <td>Longitude</td> <td>92</td> <td>27 47.3091768</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>370.054</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-27.786</td> <td></td> </tr> </table>	Vertical Determined By:	3rd Order - Digital Levels		Elevation Datum:	NAVD 88		Geoid Datum:	Geoid 96		Latitude	35	39 21.1549212	Longitude	92	27 47.3091768	Ellipsoid Height (M):	370.054		Geoid Height (M):	-27.786	
Vertical Determined By:	3rd Order - Digital Levels																						
Elevation Datum:	NAVD 88																						
Geoid Datum:	Geoid 96																						
Latitude	35		39 21.1549212																				
Longitude	92		27 47.3091768																				
Ellipsoid Height (M):	370.054																						
Geoid Height (M):	-27.786																						
Horizontal Datum NAD 83 (1997)																							
Northing (M)	146,823.7388																						
Easting (M)	358,063.6043																						
Elevation (M)*	397.822																						
Northing (SFT)	481,704.2164																						
Easting (SFT)	1,174,747.0084																						
Elevation (SFT)*	1,305.187																						
Convergence Angle	0 16 10.2057562																						
Scale Factor	0.999936714																						
Elevation Adjust. Factor	0.9999375727																						
Combined Adjust. Factor	0.9998742906																						

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks											
Description		Azimuth	Distance		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">AZ Mark Station</td> <td>710013</td> </tr> <tr> <td>Geodetic Azimuth</td> <td></td> </tr> <tr> <td>Grid Azimuth</td> <td></td> </tr> </table>	AZ Mark Station	710013	Geodetic Azimuth		Grid Azimuth	
AZ Mark Station	710013										
Geodetic Azimuth											
Grid Azimuth											
			Meters	Feet							
MK # 1											
MK # 2											
MK # 3											

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710014	Date Monumented 2/21/2012	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: §_2,080468,Mobile LiDAR-CI
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum: Geoid 96		
Northing (M) 148,760.0591		Latitude 35 40 23.6646876
Easting (M) 356,018.6211		Longitude 92 29 8.9922696
Elevation (M)* 429.537		Ellipsoid Height (M): 401.754
		Geoid Height (M): -27.781

Northing (SFT) 488,056.9606	Easting (SFT) 1,168,037.7594	Location Description
Elevation (SFT)* 1,409.240		<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 5.5 MILES TO MARK ON THE RIGHT, SOUTHEAST 89.0 FEET OF THE CENTER OF ASPHALT DRIVEWAY, NORTHEAST 41.6 FEET OF THE CENTERLINE OF HIGHWAY 65 AND SOUTHWEST 9.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710014 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>
Convergence Angle 0 16 57.7370766		
Scale Factor 0.999937137		
Elevation Adjust. Factor 0.9999325962		
Combined Adjust. Factor 0.9998697374		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE WITH GUY	340	12.80	42.0	AZ Mark Station 710014A
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<p>ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.</p>
Ref Mon # 2 <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	
Ref Mon # 3 <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710014A	Date Monumented 2/21/2012	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: §_2,080468,Mobile LiDAR-CI
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 149,184.0516		Geoid Datum: Geoid 96
Easting (M) 355,703.7772		Latitude 35 40 37.3717272
Elevation (M)* 423.808		Longitude 92 29 21.5961468
Northing (SFT) 489,448.0093		Ellipsoid Height (M): 396.025
Easting (SFT) 1,167,004.8090		Geoid Height (M): -27.780
Elevation (SFT)* 1,390.442		

Convergence Angle 0 17 5.0712618	
Scale Factor 0.999937242	
Elevation Adjust. Factor 0.9999334952	
Combined Adjust. Factor 0.9998707414	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	63	27.13	89.0
MK # 2	NORTHWEST CORNER OF WOOD STORAGE BUILDING	73	25.09	82.3
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710015	Date Monumented 2/21/2012	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: §_2,080468,Mobile LiDAR-CI
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 150,858.3432		Geoid Datum: Geoid 96
Easting (M) 353,724.7701		Latitude 35 41 31.3724076
Elevation (M)* 399.949		Longitude 92 30 40.6427328
Northing (SFT) 494,941.0810		Ellipsoid Height (M): 372.177
Easting (SFT) 1,160,512.0166		Geoid Height (M): -27.788
Elevation (SFT)* 1,312.167		

Convergence Angle 0 17 51.0684012	Scale Factor 0.999937699
Elevation Adjust. Factor 0.9999372388	Combined Adjust. Factor 0.9998749417

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF HEADWALL	92	3.35	11.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710015A	Date Monumented 2/21/2012	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: §_2,080468,Mobile LiDAR-CI
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 151,310.4748		Geoid Datum: Geoid 96
Easting (M) 353,342.4437		Latitude 35 41 45.9783312
Elevation (M)* 388.681		Longitude 92 30 55.9440252
Northing (SFT) 496,424.4494		Ellipsoid Height (M): 360.900
Easting (SFT) 1,159,257.6674		Geoid Height (M): -27.790
Elevation (SFT)* 1,275.197		

Convergence Angle 0 17 59.9722100	Location Description
Scale Factor 0.999937834	<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 8.0 MILES TO MARK ON THE LEFT. SOUTHWEST 19.0 FEET OF THE EDGE OF HIGHWAY 65 PAVEMENT AND NORTHEAST 14.9 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710015A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>
Elevation Adjust. Factor 0.9999390070	
Combined Adjust. Factor 0.9998768448	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	COMBINATION POLE WITH LIGHT	305	16.15	53.0	710015
MK # 2	TELEPHONE BOX	312	17.89	58.7	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	<p>ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.</p>
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710016	Date Monumented 2/21/2012	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: §_2,080468,Mobile LiDAR-CI
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 153,683.7313		Geoid Datum: Geoid 96
Easting (M) 352,931.3696		Latitude 35 43 2.9145540
Elevation (M)* 418.593		Longitude 92 31 12.7941924
Northing (SFT) 504,210.7084		Ellipsoid Height (M): 390.812
Easting (SFT) 1,157,909.0018		Geoid Height (M): -27.787
Elevation (SFT)* 1,373.333		

Convergence Angle 0 18 9.7773076	Scale Factor 0.999938629
Elevation Adjust. Factor 0.9999343134	Combined Adjust. Factor 0.9998729465

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 9.6 MILES TO MARK ON THE LEFT. WEST 40.0 FEET OF THE CENTERLINE HIGHWAY 65 AND EAST 23.3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710016 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE WITH 2 GUYS	301	15.85	52.0	AZ Mark Station 710016A
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 100%;" type="text"/> Ref Mon # 2 <input style="width: 100%;" type="text"/> Ref Mon # 3 <input style="width: 100%;" type="text"/>	<p>ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710016A	Date Monumented 2/21/2012	Monumented By AHTD	County VAN BUREN	Route 65	Job Number: §_2,080468,Mobile LiDAR-CI
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 154,080.6094		Geoid Datum: Geoid 96
Easting (M) 352,720.9860		Latitude 35 43 15.7560960
Elevation (M)* 433.857		Longitude 92 31 21.2487096
Northing (SFT) 505,512.7993		Ellipsoid Height (M): 406.100
Easting (SFT) 1,157,218.7682		Geoid Height (M): -27.788
Elevation (SFT)* 1,423.413		

Convergence Angle 0 18 14.6969837	
Scale Factor 0.999938775	
Elevation Adjust. Factor 0.9999319183	
Combined Adjust. Factor 0.9998706975	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH 3 GUYS	167	15.60	51.2
MK # 2	TELEPHONE BOX	160	20.60	67.6
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.
Ref Mon # 2	
Ref Mon # 3	

AZ Mark Station	710016
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710017	Date Monumented 2/24/2012	Monumented By AHTD	County VAN BUREN	Route 124	Job Number: 080445
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	116,280.5212	
Easting (M)	374,049.2090	
Elevation (M)*	170.520	
Northing (SFT)	381,497.0100	
Easting (SFT)	1,227,193.1132	
Elevation (SFT)*	559.447	

Convergence Angle	0	9	58.3290010
Scale Factor	0.999942185		
Elevation Adjust. Factor	0.9999732406		
Combined Adjust. Factor	0.9999154272		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	SOUTHEAST END GATE POST	268	7.41	24.3	710017A
MK # 2	END OF FENCE	170	13.72	45.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	ELEVATIONS WERE ESTABLISHED BY CREW S5112 ON 2/28/12 BY 3 WIRE DIGITAL LEVELS USING BENCH MARK TT 21 RDM AND CHECKED BY OCCUPYING BENCH MARK H 210 USING GPS.
Ref Mon # 2 ARHR	
Ref Mon # 3 ARBT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710017A	Date Monumented 2/24/2012	Monumented By AHTD	County VAN BUREN	Route 124	Job Number: 080445
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 116,050.0758		Geoid Datum: Geoid 96
Easting (M) 374,485.0341		Latitude 35 22 44.5985472
Elevation (M)* 185.481		Longitude 92 16 50.9404944
Northing (SFT) 380,740.9570		Ellipsoid Height (M): 157.765
Easting (SFT) 1,228,622.9827		Geoid Height (M): -27.730
Elevation (SFT)* 608.534		

Convergence Angle 0 9 48.2653922	Scale Factor 0.999942313
Elevation Adjust. Factor 0.9999708928	Combined Adjust. Factor 0.9999132074

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25, 107 AND 124, WEST OF QUITMAN, GO WEST ON HIGHWAY 124 3.45 MILES TO THE MARK ON THE RIGHT, 46 FEET EAST OF A DRIVE AND NORTH 39.9 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710017A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.				

Location Reference Marks				
	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	24	19.08	62.6
MK # 2	WATER METER	357	6.55	21.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	ELEVATIONS WERE ESTABLISHED BY CREW S5112 ON 2/28/12 BY 3 WIRE DIGITAL LEVELS USING BENCH MARK TT 21 RDM AND CHECKED BY OCCUPYING BENCH MARK H 210 USING GPS.
Ref Mon # 2 ARHR	
Ref Mon # 3 ARBT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710018	Date Monumented 10/14/2013	Monumented By AHTD	County VAN BUREN	Route 92	Job Number: FSX005
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	128,987.7518 0.0040
Easting (M)	371,856.2471 0.0040
Elevation (M)*	221.478

Northing (SFT)	423,187.3157
Easting (SFT)	1,219,998.3707
Elevation (SFT)*	726.634

Convergence Angle	0	10	49.8132514
Scale Factor	0.999937126		
Elevation Adjust. Factor	0.9999652440		
Combined Adjust. Factor	0.9999023722		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 92 AND STATE HIGHWAY 356, EAST OF BEE BRANCH, GO EAST ON HIGHWAY 92 3.8 MILES TO THE MARK ON THE LEFT, SOUTH 65 FEET OF THE CENTER LINE OF BOONE LANE, NORTHWEST 83 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 38 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2013 710018" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH 3 GUYS	75	11.28	37.0
MK # 2	FENCE CORNER	293	39.01	128.0
MK # 3				

AZ Mark Station	710018A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR	ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS BY S5112 IN OCT. 13 FOR JOB #FSX005 FROM 3RD ORDER USGS BM 15 JWO 1972 CONVERTED FROM NGVD 29 TO NAVD 88 USING VERTCON. **NOTE: PERFORMED CHECK USING STATIC GPS FROM & CONSTRAINING AHTD GPS #710006 WHICH IS BASED ON NGS 2ND ORDER BM H 210 & THE GPS DERIVED ELEV. DIFFERED BY +0.012'.
Ref Mon # 2 ARBT	
Ref Mon # 3 ARLR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710018A	Date Monumented 10/14/2013	Monumented By AHTD	County VAN BUREN	Route 92	Job Number: FSX005
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	129,038.9771	0.0040			
Easting (M)	372,691.0046	0.0040			
Elevation (M)*	222.160				
Northing (SFT)	423,355.3774				
Easting (SFT)	1,222,737.0709				
Elevation (SFT)*	728.869				

Convergence Angle	0	10	30.5432096
Scale Factor	0.999937113		
Elevation Adjust. Factor	0.9999651371		
Combined Adjust. Factor	0.9999022523		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WESTERN MOST GATE POST	169	5.97	19.6
MK # 2	UNDERGROUND CABLE MARKER	220	7.71	25.3
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARBT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARLR</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARHR	Ref Mon # 2	ARBT	Ref Mon # 3	ARLR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS BY S5112 IN OCT. 13 FOR JOB #FSX005 FROM 3RD ORDER USGS BM 15 JWO 1972 CONVERTED FROM NGVD 29 TO NAVD 88 USING VERTCON. **NOTE: PERFORMED CHECK USING STATIC GPS FROM & CONSTRAINING AHTD GPS #710006 WHICH IS BASED ON NGS 2ND ORDER BM H 210 & THE GPS DERIVED ELEV. DIFFERED BY -0.008'.</td> </tr> </table>	Comments	ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS BY S5112 IN OCT. 13 FOR JOB #FSX005 FROM 3RD ORDER USGS BM 15 JWO 1972 CONVERTED FROM NGVD 29 TO NAVD 88 USING VERTCON. **NOTE: PERFORMED CHECK USING STATIC GPS FROM & CONSTRAINING AHTD GPS #710006 WHICH IS BASED ON NGS 2ND ORDER BM H 210 & THE GPS DERIVED ELEV. DIFFERED BY -0.008'.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARHR										
Ref Mon # 2	ARBT										
Ref Mon # 3	ARLR										
Comments											
ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS BY S5112 IN OCT. 13 FOR JOB #FSX005 FROM 3RD ORDER USGS BM 15 JWO 1972 CONVERTED FROM NGVD 29 TO NAVD 88 USING VERTCON. **NOTE: PERFORMED CHECK USING STATIC GPS FROM & CONSTRAINING AHTD GPS #710006 WHICH IS BASED ON NGS 2ND ORDER BM H 210 & THE GPS DERIVED ELEV. DIFFERED BY -0.008'.											

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 92 AND STATE HIGHWAY 356, EAST OF BEE BRANCH, GO EAST ON HIGHWAY 92 4.3 MILES TO THE MARK ON THE RIGHT, WEST 11 FEET OF THE CENTER LINE OF AN ASPHALT DRIVE, SOUTH 19 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 19 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2013 710018A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

AZ Mark Station	710018
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710019	Date Monumented 5/28/2019	Monumented By ARDOT	County VAN BUREN	Route 92	Job Number: 080612
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	122,667.3412	0.0020			
Easting (M)	361,135.4835	0.0030			
Elevation (M)*					
Northing (SFT)	402,451.1019				
Easting (SFT)	1,184,825.3321				
Elevation (SFT)*					

Convergence Angle	0	14	56.7086688		
Scale Factor	0.999939164				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND STATE HIGHWAY 92, IN BEE BRANCH, GO WEST ON STATE HIGHWAY 92 2.1 MILES TO THE MARK ON RIGHT, NORTH 46.3' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "710019 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE W/GUY	356	14.39	47.2	AZ Mark Station 710019A
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR Ref Mon # 2 ARJB Ref Mon # 3 ARLR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710019A	Date Monumented 5/28/2019	Monumented By ARDOT	County VAN BUREN	Route CR 27	Job Number: 080612
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	123,024.4381	0.0030			
Easting (M)	361,150.5284	0.0030			
Elevation (M)*					
Northing (SFT)	403,622.6773				
Easting (SFT)	1,184,874.6919				
Elevation (SFT)*					

Convergence Angle	0	14	56.3973530		
Scale Factor	0.999939023				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	FENCE CORNER		85	12.68	41.6
MK # 2	POWER POLE		191	15.67	51.4
MK # 3					

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARJB</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARLR</td> </tr> </table>	Ref Mon # 1	ARHR	Ref Mon # 2	ARJB	Ref Mon # 3	ARLR	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARHR							
Ref Mon # 2	ARJB							
Ref Mon # 3	ARLR							
Comments								

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid12B

Latitude 35 26 29.3546796

Longitude 92 25 40.4686308

Ellipsoid Height (M): 185.247 0.0140

Geoid Height (M): -27.932 0.0140

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND STATE HIGHWAY 92, IN BEE BRANCH, GO WEST ON STATE HIGHWAY 92 2.1 MILES TO N BRICKY RD (CR27), TURN RIGHT (NORTH) AND GO 0.2 MILES TO THE MARK ON LEFT, WEST 10.8' OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "710019A 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710020	Date Monumented 4/27/2020	Monumented By ARDOT	County VAN BUREN	Route 16	Job Number: 080614
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	140,674.3566	0.0040			
Easting (M)	361,624.6872	0.0040			
Elevation (M)*					
Northing (SFT)	461,529.1183				
Easting (SFT)	1,186,430.3279				
Elevation (SFT)*					

Convergence Angle	0	14	47.2086214
Scale Factor	0.999935976		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TB	112	2.80	9.2	710020A
MK # 2	W END OF CUS	330	6.40	21.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710020A	Date Monumented 4/27/2020	Monumented By ARDOT	County VAN BUREN	Route 16	Job Number: 080614
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	140,980.6599	0.0040			
Easting (M)	361,917.2980	0.0040			
Elevation (M)*					
Northing (SFT)	462,534.0484				
Easting (SFT)	1,187,390.3352				
Elevation (SFT)*					

Convergence Angle	0	14	40.4739890
Scale Factor	0.999935991		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PP/GY	64	4.90	16.1
MK # 2	BRACE POST	336	8.70	28.5
MK # 3	TB	252	30.50	100.1

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	Geoid 18
Latitude	35 36 12.1187304
Longitude	92 25 13.1041560
Ellipsoid Height (M):	126.536 0.0160
Geoid Height (M):	-27.895 0.0160

Location Description
TO REACH STA FROM JCT OF US-65 & SR-16E IN CLINTON, GO EAST ON SR-16 2.4 MI TO STA ON LEFT. 29' NORTH OF C/L SR-16. STA IS A STANDARD 2½" CAP STAMPED "710020A 2020" ON TOP OF A 2" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710021	Date Monumented 5/19/2020	Monumented By ARDOT	County VAN BUREN	Route 95	Job Number: 08X193
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	137,973.2528	0.0020			
Easting (M)	353,977.5988	0.0030			
Elevation (M)*					
Northing (SFT)	452,667.2469				
Easting (SFT)	1,161,341.5054				
Elevation (SFT)*					

Convergence Angle	0	17	43.6786987
Scale Factor	0.999935946		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JCT OF US-65B & SR-95 IN CLINTON, GO S ON SR-95 3.3 MILES TO STATION ON RIGHT. 37.5' W OF C/L SR-95. 66.7' W OF A DRIVEWAY. 27.3' E OF A FENCE. THE MARK IS A STANDARD 2½" CAP STAMPED "710021 2020" ON TOP OF A 5/8" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARHR Ref Mon # 3 ARM3, ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 710021A	Date Monumented 5/19/2020	Monumented By ARDOT	County VAN BUREN	Route 95	Job Number: 08X193
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum		Elevation Datum: NAVD 88
Northing (M)	138,121.9430	Geoid Datum: Geoid 18
Easting (M)	354,213.4903	Latitude
Elevation (M)*		Longitude
Northing (SFT)	453,155.0747	Ellipsoid Height (M):
Easting (SFT)	1,162,115.4261	Geoid Height (M):
Elevation (SFT)*		

Convergence Angle	0	17	38.2444552
Scale Factor	0.999935943		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	221	3.81	12.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	
Ref Mon # 2 ARHR	
Ref Mon # 3 ARM3, ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720010A	Date Monumented 6/28/1994	Monumented By AHTD	County WASHINGTON	Route 62	Job Number: 040397, 040411, R40081
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	183,039.5419	
Easting (M)	186,773.3170	
Elevation (M)*	363.614	
Northing (SFT)	600,522.2304	
Easting (SFT)	612,772.1242	
Elevation (SFT)*	1,192.956	

Convergence Angle	-1	22	32.2410206
Scale Factor	0.999957394		
Elevation Adjust. Factor	0.9999429404		
Combined Adjust. Factor	0.9999003368		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE	77	10.85	35.6	AZ Mark Station 720010
MK # 2	WOODEN FENCE POST	268	26.60	87.3	Geodetic Azimuth 90 48 32
MK # 3					Grid Azimuth 92 11 04

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 GAYLOR Ref Mon # 2 ENES Ref Mon # 3 OKMU	3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082, 040397, & 040411 by S5103, NTB, & S5101. Data compiled in 040411 in May 2006.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720011	Date Monumented 11/9/1994	Monumented By AHTD	County WASHINGTON	Route 412	Job Number: 40151
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	206,955.3909	
Easting (M)	221,492.7460	
Elevation (M)*	411.495	
Northing (SFT)	678,986.1450	
Easting (SFT)	726,680.7842	
Elevation (SFT)*	1,350.047	

Convergence Angle	-1	9	17.3065861
Scale Factor	0.999990351		
Elevation Adjust. Factor	0.9999354272		
Combined Adjust. Factor	0.9999257788		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	10" CORNER POST		350	24.10	79.1
MK # 2	10" CORNER POST		5	23.90	78.4
MK # 3	NONE				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>HINDSVILLE NO. 2</td> </tr> <tr> <td>Ref Mon # 2</td> <td>440001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>PRICE</td> </tr> </table>	Ref Mon # 1	HINDSVILLE NO. 2	Ref Mon # 2	440001	Ref Mon # 3	PRICE	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	HINDSVILLE NO. 2							
Ref Mon # 2	440001							
Ref Mon # 3	PRICE							
Comments								

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	36 10 57.0322128
Longitude	93 59 4.3767240
Ellipsoid Height (M):	382.969
Geoid Height (M):	-28.558

Location Description
<p>FROM THE JCT. OF HWY. 412 AND COUNTY ROAD NO. 95 AT A "Y" INTERSECTION IN THE TOWN OF NOB HILL SOUTHEAST OF SPRINGDALE, GO EAST ON HWY. 412 FOR 1.174 KM (0.73 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.07 METERS SOUTH OF THE CENTERLINE OF HWY. 412 AND 0.65 METERS NORTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720011" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720011A	Date Monumented 11/9/1994	Monumented By AHTD	County WASHINGTON	Route 412	Job Number: 40151
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	206,877.1790	
Easting (M)	222,017.3320	
Elevation (M)*	406.942	
Northing (SFT)	678,729.5448	
Easting (SFT)	728,401.8634	
Elevation (SFT)*	1,335.109	

Convergence Angle	-1	9	5.0560472
Scale Factor	0.999990241		
Elevation Adjust. Factor	0.9999361416		
Combined Adjust. Factor	0.9999263832		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	1	23.58	77.4
MK # 2	FENCE BRACE POST	283	25.67	84.2
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 PRICE Ref Mon # 2 HINDSVILLE NO. 2 Ref Mon # 3 440001	

FROM THE JCT. OF HWY. 412 AND COUNTY ROAD NO. 95 AT A "Y" INTERSECTION IN THE TOWN OF NOB HILL SOUTHEAST OF SPRINGDALE, GO EAST ON HWY. 412 FOR 1.705 KM (1.06 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.42 METERS SOUTH OF THE CENTERLINE OF HWY. 412 AND 0.75 METERS NORTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720011A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720012	Date Monumented 11/9/1994	Monumented By AHTD	County WASHINGTON	Route 412	Job Number: 040151
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	206,232.5220	
Easting (M)	226,634.9200	
Elevation (M)*		
Northing (SFT)	676,614.5326	
Easting (SFT)	743,551.4000	
Elevation (SFT)*		

Convergence Angle	-1	7	17.2505890
Scale Factor	0.999989338		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST	270	16.61	54.5
MK # 2	COMBINATION POLE	175	27.00	88.6
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>PRICE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>HINDSVILLE NO. 2</td> </tr> <tr> <td>Ref Mon # 3</td> <td>440001</td> </tr> </table>	Ref Mon # 1	PRICE	Ref Mon # 2	HINDSVILLE NO. 2	Ref Mon # 3	440001	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	PRICE						
Ref Mon # 2	HINDSVILLE NO. 2						
Ref Mon # 3	440001						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 10 36.8979960
Longitude	93 55 38.0591832
Ellipsoid Height (M):	393.048
Geoid Height (M):	-27.933

Location Description
FROM THE JCT. OF HWY. 412 AND HWY. 303 IN THE TOWN OF SPRING VALLEY SOUTHEAST OF SPRINGDALE, GO EAST ON HWY. 412 FOR 0.77 KM (0.48 MILES) TO THE STATION ON THE LEFT NEAR A GRAVELED PULL-OFF AREA. THE STATION IS 15.18 METERS NORTH OF THE CENTERLINE OF HWY. 412, 20.55 METERS EAST OF A PRIVATE DRIVEWAY AND 0.74 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720012" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720012A	Date Monumented 11/9/1994	Monumented By AHTD	County WASHINGTON	Route 412	Job Number: 040151
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	206,200.4720	
Easting (M)	227,128.7380	
Elevation (M)*		
Northing (SFT)	676,509.3819	
Easting (SFT)	745,171.5346	
Elevation (SFT)*		

Convergence Angle	-1	7	5.7391295
Scale Factor	0.999989301		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	289	33.60	110.2
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 PRICE	
Ref Mon # 2 HINDSVILLE NO. 2	
Ref Mon # 3 440001	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 10 36.1714908
Longitude	93 55 18.2766144
Ellipsoid Height (M):	385.249
Geoid Height (M):	-27.931

Location Description
<p>FROM THE JCT. OF HWY. 412 AND HWY. 303 SOUTH OF THE TOWN OF SPRING VALLEY SOUTHEAST OF SPRINGDALE, GO EAST ON HWY. 412 FOR 1.255 KM (0.78 MILES) TO THE STATION ON THE LEFT ON AN ELEVATED BANK ABOUT 1.50 METERS HIGHER THAN THE ROAD SURFACE. THE STATION IS 14.66 METERS NORTH OF THE CENTERLINE OF HWY. 412 AND 0.87 METERS SOUTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720012A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720013	Date Monumented 6/13/1995	Monumented By AHTD	County WASHINGTON	Route 16	Job Number: 4999
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	192,878.6839	
Easting (M)	208,299.9820	
Elevation (M)*	367.702	
Northing (SFT)	632,802.8154	
Easting (SFT)	683,397.5243	
Elevation (SFT)*	1,206.369	

Convergence Angle	-1	14	17.3807046
Scale Factor	0.999969351		
Elevation Adjust. Factor	0.9999422989		
Combined Adjust. Factor	0.9999116517		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TRAFFIC SIGNAL BOX	3	5.85	19.2	
MK # 2	COMBINATION POLE	264	24.75	81.2	
MK # 3	NONE				

Area Reference Monuments (used for Processing) Ref Mon # 1 SPRINGDALE 1935 Ref Mon # 2 PRICE 1940 Ref Mon # 3 NONE	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	36 3 11.4829632
Longitude	94 7 40.0573704
Ellipsoid Height (M):	339.175
Geoid Height (M):	-28.527

Location Description
<p>FROM THE JCT. OF HWY. 16 AND HWY. 265 ON THE EAST SIDE OF FAYETTEVILLE, GO WEST ON HWY. 16 FOR 0.06 KM (0.04 MILES) TO THE STATION ON THE LEFT. THE STATION IS 13.9 METERS SOUTH OF THE CENTER OF HWY. 16, 20.5 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY, 13.4 METERS NORTHEAST OF A FRAME HOUSE AND 1.35 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720013" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

AZ Mark Station	720013A
Geodetic Azimuth	73 21 30.20675
Grid Azimuth	74 35 47.670136

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720013A	Date Monumented 6/13/1995	Monumented By AHTD	County WASHINGTON	Route 16	Job Number: 4999
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td colspan="2">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NGVD 29</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>36</td> <td>3 17.5214808</td> </tr> <tr> <td>Longitude</td> <td>94</td> <td>7 15.1752972</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>338.602</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.524</td> <td></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality		Elevation Datum:	NGVD 29		Geoid Datum:			Latitude	36	3 17.5214808	Longitude	94	7 15.1752972	Ellipsoid Height (M):	338.602		Geoid Height (M):	-28.524	
Vertical Determined By:	LEVEL - Unkown Quality																						
Elevation Datum:	NGVD 29																						
Geoid Datum:																							
Latitude	36		3 17.5214808																				
Longitude	94		7 15.1752972																				
Ellipsoid Height (M):	338.602																						
Geoid Height (M):	-28.524																						
Horizontal Datum NAD 83 (1986)																							
Northing (M)	193,051.3210																						
Easting (M)	208,926.5910																						
Elevation (M)*	367.126																						
Northing (SFT)	633,369.2090																						
Easting (SFT)	685,453.3240																						
Elevation (SFT)*	1,204.479																						

Convergence Angle	-1	14	2.9018479
Scale Factor	0.999969591		
Elevation Adjust. Factor	0.9999423893		
Combined Adjust. Factor	0.9999119820		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks											
Description		Azimuth	Distance								
			Meters	Feet							
MK # 1	POWER POLE	70	20.70	67.9	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">AZ Mark Station</td> <td>720013</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>253 21 44.85105</td> </tr> <tr> <td>Grid Azimuth</td> <td>254 35 47.67014</td> </tr> </table>	AZ Mark Station	720013	Geodetic Azimuth	253 21 44.85105	Grid Azimuth	254 35 47.67014
AZ Mark Station	720013										
Geodetic Azimuth	253 21 44.85105										
Grid Azimuth	254 35 47.67014										
MK # 2	16" METAL CROSS DRAIN	225	5.30	17.4							
MK # 3	CENTER OF WATER METER COVER	260	19.85	65.1							

Area Reference Monuments (used for Processing)	Comments						
<table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>SPRINGDALE 1935</td> </tr> <tr> <td>Ref Mon # 2</td> <td>PRICE 1940</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	SPRINGDALE 1935	Ref Mon # 2	PRICE 1940	Ref Mon # 3	NONE	
Ref Mon # 1	SPRINGDALE 1935						
Ref Mon # 2	PRICE 1940						
Ref Mon # 3	NONE						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720014	Date Monumented 6/13/1995	Monumented By AHTD	County WASHINGTON	Route 45	Job Number: 040440, 040474, 4999
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	196,686.8219
Easting (M)	209,297.1350
Elevation (M)*	436.069
Northing (SFT)	645,296.6815
Easting (SFT)	686,669.0171
Elevation (SFT)*	1,430.670

Convergence Angle	-1 13 56.1062725
Scale Factor	0.999974455
Elevation Adjust. Factor	0.9999315712
Combined Adjust. Factor	0.9999060280

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	164	3.00	9.8
MK # 2	8" WATER VALVE COVER	228	15.24	50.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 V 26	Elevation was converted from NGVD29 to NAVD88 by MSK using CORPSCON on Oct 20,2005. NGVD29 Elev=435.9110 Meters. 3-Wire Levels ran from NGS BM H 27 by crew S5101 on 12-5-06 on job 040474.
Ref Mon # 2 A 309	
Ref Mon # 3 ENES	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720014A	Date Monumented 6/13/1995	Monumented By AHTD	County WASHINGTON	Route 45	Job Number: 4999
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	196,641.7729				
Easting (M)	208,804.6160				
Elevation (M)*	429.827				
Northing (SFT)	645,148.8833				
Easting (SFT)	685,053.1443				
Elevation (SFT)*	1,410.191				

Convergence Angle	-1	14	7.5370494
Scale Factor	0.999974378		
Elevation Adjust. Factor	0.9999325507		
Combined Adjust. Factor	0.9999069304		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	91	16.65	54.6
MK # 2	COMBINATION POLE	271	25.90	85.0
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SPRINGDALE 1935	
Ref Mon # 2 PRICE 1940	
Ref Mon # 3 NONE	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	36 5 13.9011504
Longitude	94 7 23.1409416
Ellipsoid Height (M):	401.302
Geoid Height (M):	-28.525

Location Description
<p>FROM THE JCT. OF HWY. 45 AND HWY. 265 ON THE EAST SIDE OF FAYETTEVILLE, GO WESTERLY ON HWY. 45 FOR 0.096 KM (0.06 MILES) TO THE STATION ON THE LEFT. THE STATION IS 11.4 METERS SOUTH OF THE CENTER OF HWY. 45 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720014A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720015	Date Monumented 7/23/1996	Monumented By AHTD	County WASHINGTON	Route 59	Job Number: 001742
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	187,441.1950				
Easting (M)	175,417.7030				
Elevation (M)*	355.684				
Northing (SFT)	614,963.3206				
Easting (SFT)	575,516.2473				
Elevation (SFT)*	1,166.940				

Convergence Angle	-1	26	58.4540892
Scale Factor	0.999961848		
Elevation Adjust. Factor	0.9999441847		
Combined Adjust. Factor	0.9999060348		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	165	18.48	60.6
MK # 2	USGS BENCHMARK "7 SEM 1969"	220	29.64	97.2
MK # 3	WOODEN FENCE POST	352	12.35	40.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SILOPORT Ref Mon # 2 SPRINGDALE Ref Mon # 3 720009	ELEVATION BY 3-WIRE USING USGS BENCHMARK "7 SEM 1969" ELEVATION = 356.059 METERS.

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 59 IN THE SMALL TOWN OF SUMMERS ABOUT 24 KILOMETERS SOUTH OF SILOAM SPRINGS AND 6.5 KM. WEST OF LINCOLN GO NORTH ON HWY-59 FOR 2.09 KM. (1.30 MI.) TO THE STATION ON THE RIGHT. 74.8 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY, 10.98 METERS EAST-NORTHEAST OF THE CENTER OF HWY-59 AND 0.82 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720015 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720015A	Date Monumented 7/23/1996	Monumented By AHTD	County WASHINGTON	Route 59	Job Number: 001742
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	186,924.7809	
Easting (M)	175,374.6540	
Elevation (M)*	354.852	
Northing (SFT)	613,269.0520	
Easting (SFT)	575,375.0107	
Elevation (SFT)*	1,164.210	

Convergence Angle	-1	26	59.1503984
Scale Factor	0.999961266		
Elevation Adjust. Factor	0.9999443153		
Combined Adjust. Factor	0.9999055834		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	118	28.50	93.5
MK # 2	RAILROAD CROSS TIE GATE POST	180	18.00	59.0
MK # 3	0.61 METER ELM	353	30.52	100.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SILOPORT	ELEVATION BY 3-WIRE USING USGS BENCHMARK "7 SEM 1969" ELEVATION = 356.059 METERS.
Ref Mon # 2 SPRINGDALE	
Ref Mon # 3 720009	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	35 59 33.3030444
Longitude	94 29 29.1669000
Ellipsoid Height (M):	326.042
Geoid Height (M):	-28.809

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE ROUTE 59 IN THE SMALL TOWN OF SUMMERS ABOUT 24 KILOMETERS SOUTH OF SILOAM SPRINGS AND 6.5 KM. WEST OF LINCOLN GO NORTH ON HWY-59 FOR 1.61 KM. (1.0 MI.) TO THE STATION ON THE LEFT. 20.33 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE, 11.68 METERS WEST OF THE CENTER OF HWY-59 AND 1.20 METERS EAST OF A WITNESS POST SET NEAR A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720015A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720016	Date Monumented 7/23/1996	Monumented By AHTD	County WASHINGTON	Route 59	Job Number: 001742
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	191,564.1990	
Easting (M)	173,884.2680	
Elevation (M)*	325.072	
Northing (SFT)	628,490.2096	
Easting (SFT)	570,485.3026	
Elevation (SFT)*	1,066.507	

Convergence Angle	-1	27	36.5109758
Scale Factor	0.999966675		
Elevation Adjust. Factor	0.9999489882		
Combined Adjust. Factor	0.9999156649		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	152	15.38	50.5
MK # 2	USGS BENCH MARK "6 SEM 1969"	280	30.48	100.0
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 SILOPORT Ref Mon # 2 SPRINGDALE Ref Mon # 3 720009	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3-WIRE USING USGS BENCHMARK "6 SEM 1969" ELEVATION = 325.597 METERS.</td> </tr> </table>	Comments	ELEVATION BY 3-WIRE USING USGS BENCHMARK "6 SEM 1969" ELEVATION = 325.597 METERS.
Comments			
ELEVATION BY 3-WIRE USING USGS BENCHMARK "6 SEM 1969" ELEVATION = 325.597 METERS.			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE ROUTE 59 IN THE SMALL TOWN OF SUMMERS, ABOUT 24 KILOMETERS SOUTH OF SILOAM SPRINGS AND 6.4KM. WEST OF LINCOLN GO NORTH ON HWY-59 FOR 6.84 KM. (4.25 MI.) TO THE SOUTH EDGE OF THE SMALL TOWN OF CINCINNATI AND THE STATION ON THE RIGHT AND THE CINCINNATI UNITED METHODIST CHURCH ON THE LEFT. 11.47 METERS EAST-NORTHEAST OF THE CENTER OF HWY-59 AND 0.73 METERS WEST-SOUTHWEST OF A WITNESS POST SET NEAR A WEB WIRE FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720016 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 2 2.5550052
Longitude	94 30 33.3714600
Ellipsoid Height (M):	296.134
Geoid Height (M):	-28.783

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720016A	Date Monumented 7/23/1996	Monumented By AHTD	County WASHINGTON	Route 59	Job Number: 001742
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 191,138.7949		Latitude 36 1 48.9372780
Easting (M) 174,102.3040		Longitude 94 30 24.2320680
Elevation (M)* 332.559		Ellipsoid Height (M): 303.774
		Geoid Height (M): -28.785

Northing (SFT) 627,094.5296	Easting (SFT) 571,200.6424	Location Description
Elevation (SFT)* 1,091.071		<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE ROUTE 59 IN THE SMALL TOWN OF SUMMERS, ABOUT 24 KM. SOUTH OF SILOAM SPRINGS AND 6.5 KM. WEST OF LINCOLN GO NORTH ON HWY-59 FOR 6.36 KM. (3.95 MI.) TO THE STATION ON THE RIGHT NEAR THE NORTHWEST CORNER OF A CEMETERY. 109 METERS NORTH-NORTHWEST OF THE CENTER OF COUNTY ROAD #9, 18.65 METERS NORTHWEST OF OF THE CEMETERY ENTRANCE, 12.98 METERS NORTHEAST OF THE CENTER OF HWY-59 AND 0.52 METERS SOUTHWEST OF A WITNESS POST.THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720016A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Convergence Angle -1 27 31.1927716		
Scale Factor 0.999966160		
Elevation Adjust. Factor 0.9999478134		
Combined Adjust. Factor 0.9999139751		

SUPERCEDED CONTROL			
Horizontal Datum		Latitude	
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WOODEN CORNER FENCE POST	138	15.19	49.8	AZ Mark Station 720016
MK # 2	WOODEN FENCE POST	242	25.74	84.4	Geodetic Azimuth 331 24 16.07848
MK # 3	NONE				Grid Azimuth 332 51 47.24233

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 SILOPORT</p> <p>Ref Mon # 2 SPRINGDALE</p> <p>Ref Mon # 3 720009</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BY 3-WIRE USING USGS BENCHMARK "6 SEM 1969" ELEVATION = 325.597 METERS.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720017	Date Monumented 7/23/1996	Monumented By AHTD	County WASHINGTON	Route 59	Job Number: 001742
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1986)
Northing (M)	195,234.6069
Easting (M)	171,764.1060
Elevation (M)*	357.091
Northing (SFT)	640,532.2061
Easting (SFT)	563,529.4044
Elevation (SFT)*	1,171.556

Convergence Angle	-1	28	27.9719966
Scale Factor	0.999971295		
Elevation Adjust. Factor	0.9999439639		
Combined Adjust. Factor	0.9999152605		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	IRON PIPE GATE POST	355	14.35	47.1
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SILOPORT	
Ref Mon # 2 SPRINGDALE	
Ref Mon # 3 720009	

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NGVD 29

Geoid Datum:

Latitude 36 3 59.8414716

Longitude 94 32 1.8077856

Ellipsoid Height (M): 328.312

Geoid Height (M): -28.779

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE ROUTE 59 IN SILOAM SPRINGS GO SOUTH ON HWY-59 FOR 12.96 KM. (8.05 MI.) TO THE STATION ON THE LEFT. 16.48 METERS SOUTH OF A FIELD ENTRANCE, 11.15 METERS EAST OF THE CENTER OF HWY-59 AND 0.55 METERS WEST OF A WITNESS POST SET NEAR A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720017 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720017A	Date Monumented 7/23/1996	Monumented By AHTD	County WASHINGTON	Route 59	Job Number: 001742
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	195,837.3509	
Easting (M)	171,795.3070	
Elevation (M)*	355.372	
Northing (SFT)	642,509.7087	
Easting (SFT)	563,631.7697	
Elevation (SFT)*	1,165.916	

Convergence Angle	-1	28	27.6073148
Scale Factor	0.999972097		
Elevation Adjust. Factor	0.9999442337		
Combined Adjust. Factor	0.9999163322		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER POST	185	38.84	127.4
MK # 2	WOODEN FENCE POST	209	39.22	128.7
MK # 3	FENCE CORNER POST	300	25.66	84.2

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>SILOPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>SPRINGDALE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>720009</td> </tr> </table>	Ref Mon # 1	SILOPORT	Ref Mon # 2	SPRINGDALE	Ref Mon # 3	720009	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	SILOPORT							
Ref Mon # 2	SPRINGDALE							
Ref Mon # 3	720009							
Comments								

Vertical Determined By: GPS - Unknown Quality	
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	36 4 19.4170476
Longitude	94 32 1.1810760
Ellipsoid Height (M):	326.596
Geoid Height (M):	-28.776

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE ROUTE 59 IN SILOAM SPRINGS GO SOUTH ON HWY-59 FOR 12.31 KM. (7.65 MI.) TO THE STATION ON THE LEFT. 44.0 METERS NORTH OF A FIELD ENTRANCE, 10.8 METERS EAST OF THE CENTER OF HWY-59 AND 0.64 METERS WEST OF A WITNESS POST SET NEAR A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720017A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720018 RESET	10/28/2002	AHTD	WASHINGTON	71/540	04822,040489,012069,040505

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	199,160.8679	
Easting (M)	204,673.6200	
Elevation (M)*	380.448	
Northing (SFT)	653,413.6141	
Easting (SFT)	671,500.0350	
Elevation (SFT)*	1,248.188	

Convergence Angle	-1	15	44.8914021
Scale Factor	0.999977801		
Elevation Adjust. Factor	0.9999402988		
Combined Adjust. Factor	0.9999181011		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	AHTD BENCH MARK DISC	347	2.35	7.7
MK # 2	PUNCH MARK IN TOP OF GUARL RAIL POST	253	2.75	9.0
MK # 3	PUNCH MARK IN TOP OF GUARD RAIL POS	225	6.52	21.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	3-Wire Levels ran from NGS Marks C 27, K 310, & A 27 on 2-23-07 by crew S5101 on JOB 040489. Verified by 3 wire levels by crew S5101 in October 07 from NGS marks Q 310, J 27, K 310, & A 27.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720019 (p.1)	Date Monumented 12/9/1997	Monumented By AHTD	County WASHINGTON	Route 112	Job Number: R40023
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	202,128.5130
Easting (M)	201,776.9310
Elevation (M)*	349.953
Northing (SFT)	663,149.9631
Easting (SFT)	661,996.4811
Elevation (SFT)*	1,148.137

Convergence Angle	-1 16 53.8141240
Scale Factor	0.999982083
Elevation Adjust. Factor	0.9999450840
Combined Adjust. Factor	0.9999271680

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	8	6.8649648
Longitude	94	12	8.8899084
Ellipsoid Height:	321.955		
Grid Northing (Meters)	202,128.5130		
Grid Easting (Meters)	201,776.9310		

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 112 ON THE NORTHWEST SIDE OF FAYETTEVILLE, GO NORTHERLY ON STATE HWY-112 FOR 4.67 KM. (2.90 MI.) TO THE STATION ON THE LEFT. 19.0 METERS NORTH OF THE NORTHWEST END OF A BRIDGE OVER "CLEAR CREEK", 7.85 METERS WEST OF THE CENTER OF HWY-112, 6.50 METERS EAST OF THE CENTER OF A GRAVEL DRIVE AND 0.87 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720019 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	PUNCH POINT IN TOP OF GUARD RAIL POS	356	5.85	19.2	AZ Mark Station 720019A
MK # 2	PUNCH POINT IN TOP OF GUARD RAIL POS	8	2.10	6.9	Geodetic Azimuth 178 53 01.79350
MK # 3	PUNCH POINT IN TOP OF GUARD RAIL POS	155	3.89	12.8	Grid Azimuth 180 09 55.60844

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 FLINT</p> <p>Ref Mon # 2 OLD MAIN</p> <p>Ref Mon # 3 V 26</p>	<p style="text-align: center;">Comments</p> <p>SEE DATASHEET FOR 720019 (p.2) FOR LATEST OBSERVED POSITION ON THIS GPS POINT.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720019 (p.2)	Date Monumented 12/9/1997	Monumented By AHTD	County WASHINGTON	Route 112	Job Number: 012270, 040751
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	202,128.5064 0.0020
Easting (M)	201,776.9380 0.0020
Elevation (M)*	349.908
Northing (SFT)	663,149.9414
Easting (SFT)	661,996.5041
Elevation (SFT)*	1,147.989

Convergence Angle	-1	16	53.8139585
Scale Factor	0.999982083		
Elevation Adjust. Factor	0.9999450911		
Combined Adjust. Factor	0.9999271751		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT IN TOP OF GUARD RAIL POS	356	5.85	19.2
MK # 2	PUNCH POINT IN TOP OF GUARD RAIL POS	8	2.10	6.9
MK # 3	PUNCH POINT IN TOP OF GUARD RAIL POS	155	3.89	12.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 CTA1 Ref Mon # 3 MOA2	SEE DATASHEET FOR 720019 (p.1) FOR PREVIOUS OBSERVED POSITIONS ON THIS GPS POINT. *****ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720021	Date Monumented 9/11/2000	Monumented By AHTD	County WASHINGTON	Route I-540	Job Number: 040354, 012111
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	206,573.1304	
Easting (M)	203,370.5075	
Elevation (M)*	409.264	
Northing (SFT)	677,732.0120	
Easting (SFT)	667,224.7400	
Elevation (SFT)*	1,342.726	

Convergence Angle	-1	16	19.0307175
Scale Factor	0.999989101		
Elevation Adjust. Factor	0.9999357773		
Combined Adjust. Factor	0.9999248790		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHISELED "X" IN NORTHWEST CORNER OF BRIDGE	89	5.70	18.7
MK # 2	CHISELED "X" IN NORTHEAST CORNER OF BRIDGE	265	6.68	21.9
MK # 3	PUNCH MARK IN TOP OF METAL GUARD RAIL POST	334	9.00	29.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 V 26 Ref Mon # 2 ENES Ref Mon # 3 H37 A	3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309.

Location Description	
THE STATION IS LOCATED ON THE WEST SIDE OF SPRINGDALE AT THE JUNCTION OF I 540 AND U.S. HIGHWAY 412, SET ON THE NORTH SIDE OF U.S. HIGHWAY 412 IN THE MEDIAN OF I 540. THE STATION IS 12.40 METERS WEST OF THE CENTER OF THE NORTH BOUND LANE OF I 540, 7.38 METERS EAST OF THE BACK OF A CRUB AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720021 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 536.119 METERS.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720021A	Date Monumented 9/11/2000	Monumented By AHTD	County WASHINGTON	Route I-540	Job Number: 040354, 012111, 040894
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	206,984.8930	0.0020			
Easting (M)	203,713.8339	0.0020			
Elevation (M)*	401.019				

Northing (SFT)	679,082.9365				
Easting (SFT)	668,351.1367				
Elevation (SFT)*	1,315.676				

Convergence Angle	-1	16	11.2505625		
Scale Factor	0.999989784				
Elevation Adjust. Factor	0.9999370710				
Combined Adjust. Factor	0.9999268557				

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)				
Latitude	36	10	45.7848192		
Longitude	94	10	55.7450508		
Ellipsoid Height:	373.074				
Grid Northing (Meters)	206,984.8739				
Grid Easting (Meters)	203,713.8063				

Location Description

 TO REACH THE STATION FROM THE JUNCTION OF I 540 AND U.S. HIGHWAY 412, LOCATED ON THE WEST SIDE OF SPRINGDALE GO NORTH ON I 540 FOR 0.54 KM (0.34 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.00 METERS NORTHWEST OF THE CENTER OF THE SOUTH BOUND LANE OF I 540 AND 0.86 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720021A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 536.119 METERS.

Location Reference Marks

Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTH IN LINE BRACE POST	23	2.22	7.3	AZ Mark Station 720021
MK # 2	METAL LIGHT POLE	43	15.25	50.0	Geodetic Azimuth 218 33 01.84334
MK # 3	NONE				Grid Azimuth 219 49 13.03839

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY (V 26) Ref Mon # 2 ARHR (ENES) Ref Mon # 3 CTA1, V 26 (H37 A)	<div style="border: 1px solid black; padding: 5px;"> Comments 3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309. *****SUPERCEDED GEOID HT. WAS -27.993m </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720022	Date Monumented 9/17/2001	Monumented By AHTD	County WASHINGTON	Route 62	Job Number: R40082, 040411
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	185,985.4699	
Easting (M)	192,883.8340	
Elevation (M)*	348.088	
Northing (SFT)	610,187.3292	
Easting (SFT)	632,819.7120	
Elevation (SFT)*	1,142.019	

Convergence Angle	-1	20	11.9709057
Scale Factor	0.999960694		
Elevation Adjust. Factor	0.9999453766		
Combined Adjust. Factor	0.9999060728		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	GAYLOR
Ref Mon # 2	V 26
Ref Mon # 3	FLINT

Comments
3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082,040397, & 040411 by S5103, NTB, & S5101. Data compiled in 040411 in May 2006.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720022A	Date Monumented 9/17/2001	Monumented By AHTD	County WASHINGTON	Route 62	Job Number: R40082, 040411
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	185,587.8129	
Easting (M)	192,527.7350	
Elevation (M)*	358.589	
Northing (SFT)	608,882.6828	
Easting (SFT)	631,651.4106	
Elevation (SFT)*	1,176.469	

Convergence Angle	-1	20	20.0253607
Scale Factor	0.999960247		
Elevation Adjust. Factor	0.9999437289		
Combined Adjust. Factor	0.9999039782		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	35	38.80	127.3
MK # 2	COMBINATION POLE	213	42.00	137.8
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>GAYLOR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>V 26</td> </tr> <tr> <td>Ref Mon # 3</td> <td>FLINT</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	GAYLOR	Ref Mon # 2	V 26	Ref Mon # 3	FLINT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082,040397, & 040411 by S5103, NTB, & S5101. Data compiled in 040411 in May 2006.</td> </tr> </table>	Comments	3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082,040397, & 040411 by S5103, NTB, & S5101. Data compiled in 040411 in May 2006.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	GAYLOR										
Ref Mon # 2	V 26										
Ref Mon # 3	FLINT										
Comments											
3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082,040397, & 040411 by S5103, NTB, & S5101. Data compiled in 040411 in May 2006.											

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 59 3.4794816
Longitude	94 18 3.2661684
Ellipsoid Height (M):	330.788
Geoid Height (M):	-28.057

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 170 WEST AND U.S. HIGHWAY 62 LOCATED IN FARMINGTON, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 8.690 KM (5.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.40 METERS WEST OF THE CENTER OF U.S. HIGHWAY 62, 1.92 METERS EAST OF A SPLIT RAIL FENCE, AND 1.62 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720022A 2001" SET ON TOP OF AN IRON ROD 0.52 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 533.832 METERS.</p>

AZ Mark Station	720022
Geodetic Azimuth	40 30 19
Grid Azimuth	41 50 39

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720023	Date Monumented 9/17/2001	Monumented By AHTD	County WASHINGTON	Route 62	Job Number: R40082
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	189,609.2869	
Easting (M)	195,301.4710	
Elevation (M)*	390.144	
Northing (SFT)	622,076.4688	
Easting (SFT)	640,751.5761	
Elevation (SFT)*	1,279.997	

Convergence Angle	-1	19	17.7631684
Scale Factor	0.999964932		
Elevation Adjust. Factor	0.9999387774		
Combined Adjust. Factor	0.9999037116		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 170 WEST AND U.S. HIGHWAY 62 LOCATED IN FARMINGTON, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 3.862 KM (2.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.65 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD (WASHINGTON COUNTY ROAD 255), 18.00 METERS NORTH OF THE CENTER OF A PAVED DRIVE, 10.80 METERS EAST OF THE CENTER OF U.S. HIGHWAY 62, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720023 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 489.329 METERS.</p>				

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	GAS METER	34	14.75	48.4		
MK # 2	TELEPHONE JUNCTION BOX	194	28.55	93.7		
MK # 3	NORTH END CORRIGATED METAL PIPE	220	11.75	38.5		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 GAYLOR Ref Mon # 2 V 26 Ref Mon # 3 FLINT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720024	Date Monumented 9/18/2001	Monumented By AHTD	County WASHINGTON	Route 62	Job Number: R40082
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	191,448.4669	
Easting (M)	196,660.1860	
Elevation (M)*	375.483	
Northing (SFT)	628,110.5118	
Easting (SFT)	645,209.2936	
Elevation (SFT)*	1,231.897	

Convergence Angle	-1	18	47.1734639
Scale Factor	0.999967215		
Elevation Adjust. Factor	0.9999410779		
Combined Adjust. Factor	0.9999082949		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					720024A
MK # 2	NONE					60 32 31
MK # 3	NONE					61 51 18

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 GAYLOR Ref Mon # 2 V 26 Ref Mon # 3 FLINT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720024A	Date Monumented 9/18/2001	Monumented By AHTD	County WASHINGTON	Route 62	Job Number: R40082
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	191,638.2729	
Easting (M)	197,014.9890	
Elevation (M)*	368.871	
Northing (SFT)	628,733.2337	
Easting (SFT)	646,373.3431	
Elevation (SFT)*	1,210.204	

Convergence Angle	-1	18	39.0289414
Scale Factor	0.999967461		
Elevation Adjust. Factor	0.9999421155		
Combined Adjust. Factor	0.9999095783		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAN HOLE COVER	68	19.75	64.8
MK # 2	COMBINATION POLE	57	22.25	73.0
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>GAYLOR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>V 26</td> </tr> <tr> <td>Ref Mon # 3</td> <td>FLINT</td> </tr> </table>	Ref Mon # 1	GAYLOR	Ref Mon # 2	V 26	Ref Mon # 3	FLINT	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	GAYLOR						
Ref Mon # 2	V 26						
Ref Mon # 3	FLINT						

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 2 23.1036216
Longitude	94 15 9.7027200
Ellipsoid Height (M):	340.860
Geoid Height (M):	-28.011

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 170 WEST AND U.S. HIGHWAY 62 LOCATED IN FARMINGTON, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 1.127 KM (0.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.25 METERS EAST OF THE CENTER OF THE ENTRANCE TO MARVIN'S IGA, 10.40 METERS SOUTHEAST OF U.S. HIGHWAY 62, 10.00 METERS WEST OF THE CENTER OF SARATOGA STREET, AND 0.77 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720024A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 402.418 METERS.</p>

AZ Mark Station	720024
Geodetic Azimuth	240 32 39
Grid Azimuth	241 51 18

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720025	Date Monumented 10/9/2001	Monumented By AHTD	County WASHINGTON	Route 540	Job Number: 040346, 012111
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	202,487.8430	
Easting (M)	203,549.6190	
Elevation (M)*	373.234	
Northing (SFT)	664,328.8649	
Easting (SFT)	667,812.3750	
Elevation (SFT)*	1,224.517	

Convergence Angle	-1	16	12.7522379
Scale Factor	0.999982688		
Elevation Adjust. Factor	0.9999414309		
Combined Adjust. Factor	0.9999241199		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 112 AND INTERSTATE 540, LOCATED ON THE WEST SIDE OF FAYETTEVILLE, GO NORTH ON I 540 FOR 4.699 KM (2.92 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.27 METERS SOUTHWEST OF THE CORNER OF THE NORTH BOUND BRIDGE, 6.50 METERS SOUTHEAST OF THE CORNER OF THE SOUTH BOUND BRIDGE, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720025 2001" SET ON TOP OF AN IRON ROD 0.70 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 511.436 METERS.</p>				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NORTHWEST CORNER OF NORTH BOUND BRIDGE	116	10.27	33.7	720025A
MK # 2	NORTHEAST CORNER OF SOUTH BOUND BRIDGE	255	6.50	21.3	171 44 41
MK # 3	PUNCH IN METAL GUARD RAIL POST	302	10.30	33.8	173 00 54

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 V 26 Ref Mon # 2 91040001 Ref Mon # 3 E E S	3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720025A	Date Monumented 10/9/2001	Monumented By AHTD	County WASHINGTON	Route 540	Job Number: 040346, 012111
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	201,980.2340
Easting (M)	203,611.8110
Elevation (M)*	365.364
Northing (SFT)	662,663.4844
Easting (SFT)	668,016.4166
Elevation (SFT)*	1,198.697

Convergence Angle	-1	16	11.0432742
Scale Factor	0.999981921		
Elevation Adjust. Factor	0.9999426658		
Combined Adjust. Factor	0.9999245878		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH IN METAL GUARD RAIL POST	72	6.55	21.5
MK # 2	PUNCH IN METAL GUARD RAIL POST	95	6.96	22.8
MK # 3	PUNCH IN METAL GUARD RAIL POST	124	9.65	31.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 V 26 Ref Mon # 2 91040001 Ref Mon # 3 E E S	3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309.

Vertical Determined By: 3rd Order - Digital Level

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 36 8 3.3806940

Longitude 94 10 55.3877364

Ellipsoid Height (M): 337.404

Geoid Height (M): -27.987

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 112 AND INTERSTATE 540, LOCATED ON THE WEST SIDE OF FAYETTEVILLE, GO NORTH ON I 540 FOR 4.184 KM (2.60 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.0 METERS SOUTHWEST OF THE CORNER OF THE NORTH BOUND BRIDGE, 9.15 METERS SOUTHWEST OF AN A.H.T.D. BENCHMARK CAP IN WING WALL OF SOUTH BOUND BRIDGE, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720025A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 511.436 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720026	Date Monumented 10/25/2001	Monumented By AHTD	County WASHINGTON	Route 265	Job Number: 004981
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	174,113.9779	
Easting (M)	191,836.5700	
Elevation (M)*		
Northing (SFT)	571,238.9425	
Easting (SFT)	629,383.8134	
Elevation (SFT)*		

Convergence Angle	-1	20	29.8361479
Scale Factor	0.999949287		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	269	20.40	66.9
MK # 2	CORRIGATED METAL PIPE	18	16.55	54.3
MK # 3	TELEPHONE JUNCTION BOX	51	4.30	14.1

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>GAYLOR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>720022</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ENES</td> </tr> </table>	Ref Mon # 1	GAYLOR	Ref Mon # 2	720022	Ref Mon # 3	ENES	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	GAYLOR						
Ref Mon # 2	720022						
Ref Mon # 3	ENES						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 52 50.7737820
Longitude	94 18 20.1261132
Ellipsoid Height (M):	384.970
Geoid Height (M):	-28.108

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 156 LOCATED IN HOGEYE, GO SOUTH ON STATE HIGHWAY 265 FOR 5.826 KM (3.62 MI) TO THE STATION ON THE LEFT. THE STATION IS 20.00 METERS SOUTH OF THE CENTER OF A GRAVEL FIELD ENTRANCE, 10.40 METERS EAST OF THE CENTER OF STATE HIGHWAY 265, AND 0.90 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720026 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 358.665 METERS.</p>

AZ Mark Station	720026A
Geodetic Azimuth	201 21 56
Grid Azimuth	202 42 26

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720026A	Date Monumented 10/25/2001	Monumented By AHTD	County WASHINGTON	Route 265	Job Number: 004981
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	173,783.1519	
Easting (M)	191,698.1340	
Elevation (M)*		
Northing (SFT)	570,153.5575	
Easting (SFT)	628,929.6280	
Elevation (SFT)*		

Convergence Angle	-1	20	32.8671673
Scale Factor	0.999949017		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	21	14.00	45.9	
MK # 2	WOODEN CORNER POST	193	13.15	43.1	
MK # 3	WATER METER	150	6.70	22.0	

Area Reference Monuments (used for Processing) Ref Mon # 1 GAYLOR Ref Mon # 2 720022 Ref Mon # 3 ENES	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 52 39.9373068
Longitude	94 18 25.3349532
Ellipsoid Height (M):	392.844
Geoid Height (M):	-28.113

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 156 LOCATED IN HOGEYE, GO SOUTH ON STATE HIGHWAY 265 FOR 6.196 KM (3.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.30 METERS EAST OF THE CENTER OF STATE HIGHWAY 265 AND 0.58 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720026A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 358.665 METERS.

AZ Mark Station	720026
Geodetic Azimuth	21 21 53
Grid Azimuth	22 42 26

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720027	Date Monumented 10/31/2001	Monumented By AHTD	County WASHINGTON	Route 71	Job Number: 4938
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	175,789.8429
Easting (M)	203,486.7740
Elevation (M)*	431.570
Northing (SFT)	576,737.1762
Easting (SFT)	667,606.1910
Elevation (SFT)*	1,415.909

Convergence Angle	-1	16	0.4767809
Scale Factor	0.999950909		
Elevation Adjust. Factor	0.9999322772		
Combined Adjust. Factor	0.9998831895		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 74 WEST LOCATED IN WINSLOW, GO NORTH ON U.S. HIGHWAY 71 FOR 15.112 KM (9.39 MI) TO THE STATION ON THE LEFT. THE STATION IS 32.10 METERS SOUTH OF A PAVED DRIVE, 15.50 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720027 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 635.799 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY CREW S5101 USING BM X 310 PID= FH1254.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 440015</p> <p>Ref Mon # 2 GAYLOR</p> <p>Ref Mon # 3 ENES</p>	<p style="text-align: center;">Comments</p> <p>ELEV BY 3 WIRE BY S5103 FROM X 310</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720027A	Date Monumented 10/31/2001	Monumented By AHTD	County WASHINGTON	Route 71	Job Number: 4938
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	176,425.5650
Easting (M)	203,482.9860
Elevation (M)*	417.766
Northing (SFT)	578,822.8745
Easting (SFT)	667,593.7632
Elevation (SFT)*	1,370.621

Convergence Angle	-1	16	0.8908254
Scale Factor	0.999951461		
Elevation Adjust. Factor	0.9999344432		
Combined Adjust. Factor	0.9998859073		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	13	12.00	39.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 440015	ELEV BY 3 WIRE BY S5103 FROM X 310
Ref Mon # 2 GAYLOR	
Ref Mon # 3 ENES	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720028 RESET	5/13/2003	AHTD	WASHINGTON	71	4938

Zone	Zone Code	Vertical Determined By:
Arkansas North	301	LEVEL - Unkown Quality
Horizontal Datum	NAD 83 (1997)	
Northing (M)	171,675.5299	
Easting (M)	209,403.4970	
Elevation (M)*	449.291	
Northing (SFT)	563,238.8010	
Easting (SFT)	687,017.9731	
Elevation (SFT)*	1,474.049	

Convergence Angle	-1	13	41.1640253
Scale Factor	0.999947678		
Elevation Adjust. Factor	0.9999294966		
Combined Adjust. Factor	0.9998771783		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WOODEN FENCE POST	131	7.60	24.9	720028A
MK # 2	IN-LINE BRACE POST (WOOD)	299	19.90	65.3	309 41 04
MK # 3					310 54 45

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV BY 3 WIRE FROM BGS B 313 BY S5103
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720028A	Date Monumented 10/31/2001	Monumented By AHTD	County WASHINGTON	Route 71	Job Number: 4938
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	172,140.7360	
Easting (M)	208,866.6880	
Elevation (M)*	444.929	
Northing (SFT)	564,765.0647	
Easting (SFT)	685,256.7922	
Elevation (SFT)*	1,459.738	

Convergence Angle	-1	13	53.8441922
Scale Factor	0.999948026		
Elevation Adjust. Factor	0.9999301810		
Combined Adjust. Factor	0.9998782106		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WOODEN FENCE POST	308	21.30	69.9	720028 RESET
MK # 2	WOODEN FENCE POST	116	13.80	45.3	129 40 52
MK # 3					130 54 45

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 440015 & AHTD HAR1	ELEV BY 3 WIRE FROM BGS B 313 BY S5103
Ref Mon # 2 GAYLOR & 720029	
Ref Mon # 3 ENES & 720027	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720029	Date Monumented 10/31/2001	Monumented By AHTD	County WASHINGTON	Route 71	Job Number: 4938
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	166,459.2820				
Easting (M)	207,504.6540				
Elevation (M)*	494.845				
Northing (SFT)	546,125.1610				
Easting (SFT)	680,788.1857				
Elevation (SFT)*	1,623.505				

Convergence Angle	-1	14	22.5793586
Scale Factor	0.999944017		
Elevation Adjust. Factor	0.9999223487		
Combined Adjust. Factor	0.9998663700		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	162	30.00	98.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 440015	ELEV BY 3 WIRE FROM X 312 BY S5103
Ref Mon # 2 GAYLOR	
Ref Mon # 3 ENES	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720029A	Date Monumented 10/31/2001	Monumented By AHTD	County WASHINGTON	Route 71	Job Number: 4938
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	166,005.3639	
Easting (M)	207,447.5720	
Elevation (M)*	504.905	
Northing (SFT)	544,635.9314	
Easting (SFT)	680,600.9091	
Elevation (SFT)*	1,656.510	

Convergence Angle	-1	14	23.6745749
Scale Factor	0.999943732		
Elevation Adjust. Factor	0.9999207702		
Combined Adjust. Factor	0.9998645066		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER POST	205	13.80	45.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 440015	ELEV BY 3 WIRE FROM X 312 BY S5103
Ref Mon # 2 GAYLOR	
Ref Mon # 3 ENES	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720030	Date Monumented 10/7/2002	Monumented By AHTD	County WASHINGTON	Route N/A	Job Number: 040397, 040411
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	182,900.0029	
Easting (M)	190,896.6620	
Elevation (M)*	354.352	
Northing (SFT)	600,064.4262	
Easting (SFT)	626,300.1319	
Elevation (SFT)*	1,162.570	

Convergence Angle	-1	20	56.4347880
Scale Factor	0.999957351		
Elevation Adjust. Factor	0.9999443937		
Combined Adjust. Factor	0.9999017471		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	279	16.00	52.5
MK # 2	SOUTH GATE POST	16	1.65	5.4
MK # 3	4" WOOD FENCE POST	87	0.50	1.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 100%;" type="text" value="GAYLOR"/> Ref Mon # 2 <input style="width: 100%;" type="text" value="ENES"/> Ref Mon # 3 <input style="width: 100%;" type="text" value="OKMU"/>	3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082, 040397, & 040411 by S5103, NTB, & S5101. Data compiled in 040411 in May 2006.

Location Description	
<p>TO REACH THE STATION FROM THE POST OFFICE IN PRAIRIE GROVE, GO EAST ON U.S. HIGHWAY 62 FOR 0.15 MILES TO THE STOP LIGHT AT THE JUNCTION ON U.S. HIGHWAY 62 (BUCHANAN STREET) & MOCK STREET. TURN RIGHT (SOUTH) ON MOCK STREET AND GO SOUTH FOR 1.10 MILE TO THE STATION ON THE LEFT. THE STATION IS 8.30 METERS EAST OF THE CENTER OF MOCK STREET, 5.40 METERS SOUTH OF A FIELD ENTRANCE, AND 0.44 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720030 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720030A	Date Monumented 10/7/2002	Monumented By AHTD	County WASHINGTON	Route N/A	Job Number: 040397, 040411
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	182,332.6249	
Easting (M)	190,858.1730	
Elevation (M)*	349.113	
Northing (SFT)	598,202.9535	
Easting (SFT)	626,173.8559	
Elevation (SFT)*	1,145.382	

Convergence Angle	-1	20	57.0181288
Scale Factor	0.999956771		
Elevation Adjust. Factor	0.9999452158		
Combined Adjust. Factor	0.9999019892		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHERN MOST 4" IN LINE BRACE POST	194	2.40	7.9
MK # 2	NORTHERN MOST 4" IN LINE BRACE POST	265	0.75	2.5
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 GAYLOR Ref Mon # 2 ENES Ref Mon # 3 OKMU	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> 3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082, 040397, & 040411 by S5103, NTB, & S5101. Data compiled in 040411 in May 2006. </td> </tr> </table>	Comments	3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082, 040397, & 040411 by S5103, NTB, & S5101. Data compiled in 040411 in May 2006.
Comments			
3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082, 040397, & 040411 by S5103, NTB, & S5101. Data compiled in 040411 in May 2006.			

Location Description
TO REACH THE STATION FROM THE POST OFFICE IN PRAIRIE GROVE, GO EAST ON U.S. HIGHWAY 62 FOR 0.15 MILES TO THE STOP LIGHT AT THE JUNCTION OF U.S. HIGHWAY 62 (BUCHANAN STREET) AND MOCK STREET. TURN RIGHT (SOUTH) ON MOCK STREET AND GO SOUTH FOR 1.45 MILES ON MOCK STREET TO THE STATION ON THE RIGHT. THE STATION IS 7.95 METERS WEST OF THE CENTER OF MOCK STREET, 0.65 METERS EAST OF A BARB WIRE FENCE LINE, AND 0.55 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720030A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	720030
Geodetic Azimuth	2 31 54
Grid Azimuth	3 52 51

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720031	Date Monumented 10/7/2002	Monumented By AHTD	County WASHINGTON	Route 62	Job Number: 040397
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	183,167.4609	
Easting (M)	178,791.3180	
Elevation (M)*	422.166	
Northing (SFT)	600,941.9113	
Easting (SFT)	586,584.5158	
Elevation (SFT)*	1,385.056	

Convergence Angle	-1	25	37.6235709
Scale Factor	0.999957325		
Elevation Adjust. Factor	0.9999337528		
Combined Adjust. Factor	0.9998910806		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	REINFORCED CONCRETE PIPE	52	11.31	37.1
MK # 2	POWER POLE	96	8.37	27.5
MK # 3	GAS METER	144	15.20	49.9

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>GAYLOR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ENES</td> </tr> <tr> <td>Ref Mon # 3</td> <td>OKMU</td> </tr> </table>	Ref Mon # 1	GAYLOR	Ref Mon # 2	ENES	Ref Mon # 3	OKMU	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	GAYLOR						
Ref Mon # 2	ENES						
Ref Mon # 3	OKMU						

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 57 34.2147744
Longitude	94 27 9.0621576
Ellipsoid Height (M):	393.921
Geoid Height (M):	-28.245

Location Description
<p>TO REACH THE STATION FROM THE POST OFFICE IN LINCOLN, GO WEST ON U.S. HIGHWAY 62 FOR 1.85 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.29 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 62, 12.80 METERS WEST OF THE CENTER OF A DRIVEWAY, AND 0.87 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720031 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVELS FROM NGS BENCH D 50, PID # FH0057, RAN BY CREW S5101.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720031A	Date Monumented 10/7/2002	Monumented By AHTD	County WASHINGTON	Route 62	Job Number: 040397
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	183,223.1400
Easting (M)	178,295.5360
Elevation (M)*	418.945
Northing (SFT)	601,124.5852
Easting (SFT)	584,957.9377
Elevation (SFT)*	1,374.489

Convergence Angle	-1 25	49.1657219
Scale Factor	0.999957369	
Elevation Adjust. Factor	0.9999342582	
Combined Adjust. Factor	0.9998916300	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="GAYLOR"/> Ref Mon # 2 <input type="text" value="ENES"/> Ref Mon # 3 <input type="text" value="OKMU"/>	

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude

Longitude

Ellipsoid Height (M):

Geoid Height (M):

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN LINCOLN, GO WEST ON U.S. HIGHWAY 62 FOR 2.15 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.90 MILES NORTH OF THE CENTER OF U.S. HIGHWAY 62, 0.88 METERS SOUTH OF A BARB WIRE FENCE LINE, AND 0.60 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720031A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVELS FROM NGS BENCH D 50, PID # FH0057, RAN BY CREW S5101.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720032	Date Monumented 10/23/2002	Monumented By AHTD	County WASHINGTON	Route 112	Job Number: 040399,012069,040418,01211
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	193,026.8170	
Easting (M)	203,552.9720	
Elevation (M)*	383.814	
Northing (SFT)	633,288.8154	
Easting (SFT)	667,823.3756	
Elevation (SFT)*	1,259.231	

Convergence Angle	-1	16	7.7981038
Scale Factor	0.999969408		
Elevation Adjust. Factor	0.9999397706		
Combined Adjust. Factor	0.9999091805		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	3	24.85	81.5
MK # 2	FLAG POLE	80	17.20	56.4
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 AGRONOMY Ref Mon # 2 ENES Ref Mon # 3 V 26	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire levels ran by crew S5101 in October 07 from NGS marks Q 310, J 27, K 310, & A 27.</td> </tr> </table>	Comments	3-wire levels ran by crew S5101 in October 07 from NGS marks Q 310, J 27, K 310, & A 27.
Comments			
3-wire levels ran by crew S5101 in October 07 from NGS marks Q 310, J 27, K 310, & A 27.			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720033	Date Monumented 10/23/2002	Monumented By AHTD	County WASHINGTON	Route 112	Job Number: 5, 004822, 040489, 040418, 04
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	197,060.9671	0.0020			
Easting (M)	204,131.2277	0.0020			
Elevation (M)*	388.933				

Northing (SFT)	646,524.1896				
Easting (SFT)	669,720.5362				
Elevation (SFT)*	1,276.026				

Convergence Angle	-1	15	56.4286176		
Scale Factor	0.999974817				
Elevation Adjust. Factor	0.9999389674				
Combined Adjust. Factor	0.9999137859				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (1997)				
Latitude	36	5	24.1893312		
Longitude	94	10	30.2731572		
Ellipsoid Height:	360.972				
Grid Northing (Meters)	197,060.9660				
Grid Easting (Meters)	204,131.2060				

Location Description					
<p>TO REACH THE STATION FROM THE JUNCTION OF I 540 AND STATE HIGHWAY 112, ON THE NORTH EDGE OF FAYETTEVILLE, GO SOUTH ON STATE HIGHWAY 112 FOR 1.15 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.70 METERS WEST OF THE CENTER OF STATE HIGHWAY 112, 0.70 METERS EAST OF A WHITE PLANK FENCE LINE AND 0.40 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720033 2002" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT ON THIS STATION BY 3 WIRE LEVELS FROM NGS BENCH L 310 PID #GG0905 RAN BY CREW S5102.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	MAN HOLE COVER		72	8.00	26.2
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 AGRONOMY</p> <p>Ref Mon # 2 ENES</p> <p>Ref Mon # 3 V 26</p>	<p style="text-align: center;">Comments</p> <p>3-Wire Levels ran from NGS Marks C 27, K 310, & A 27 on 2-23-07 by crew S5101 on JOB 040489.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720034	Date Monumented 9/9/2003	Monumented By AHTD	County WASHINGTON	Route 16	Job Number: 040423,012069,012111
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - 3 Wire Level
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 195,815.9129		Latitude 36 4 42.0952764
Easting (M) 201,761.3360		Longitude 94 12 3.8699280
Elevation (M)* 388.900		Ellipsoid Height (M): 360.887
Northing (SFT) 642,439.3742		Geoid Height (M): -27.980
Easting (SFT) 661,945.3165		
Elevation (SFT)* 1,275.915		

Convergence Angle -1 16 50.8930018	Location Description
Scale Factor 0.999973038	<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 112/I-540/16 OVER PASS, WEST OF FAYETTEVILLE, THE STATION MARK IS AT THE NORTHWEST CORNER OF THE OVERPASS BRIDGE, NORTH 8.80 METERS OF THE CENTERLINE OF HIGHWAY 16 AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720034 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 0.9999389727	
Combined Adjust. Factor 0.9999120123	

SUPERCEDED CONTROL				
Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NORTHWEST CORNER OF BRIDGE	125	2.80	9.2	720034A
MK # 2	4th GUARD RAIL POST GOING WEST FROM NW COR	246	2.50	8.2	193 16 45
MK # 3					194 33 35

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ENES, OKMU	3-wire levels ran by crew S5101 in October 07 from NGS 1st order marks Q 310, K 310, J 27, & A 27.
Ref Mon # 2 SALI	
Ref Mon # 3 AGRONOMY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720034A	Date Monumented 9/9/2003	Monumented By AHTD	County WASHINGTON	Route 540	Job Number: 040423,012069,012111
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	195,107.7030	
Easting (M)	201,577.3910	
Elevation (M)*	390.372	
Northing (SFT)	640,115.8556	
Easting (SFT)	661,341.8236	
Elevation (SFT)*	1,280.745	

Convergence Angle	-1	16	54.8015275
Scale Factor	0.999972080		
Elevation Adjust. Factor	0.9999387417		
Combined Adjust. Factor	0.9999108234		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 112/I-540/16 OVER PASS, WEST OF FAYETTEVILLE, GO SOUTH ON I-540 0.45 MILES TO THE STATION IN THE MEDIAN, WEST 12.10 METERS OF THE NORTH BOUND LANE, EAST 7.50 METERS OF THE SOUTH BOUND LANE, AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720034A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1					AZ Mark Station	720034
MK # 2					Geodetic Azimuth	13 16 41
MK # 3					Grid Azimuth	14 33 35

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ENES, OKMU Ref Mon # 2 SALI Ref Mon # 3 AGRONOMY	3-wire levels ran by crew S5101 in October 07 from NGS 1st order marks Q 310, K 310, J 27, & A 27.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720035	Date Monumented 9/9/2003	Monumented By AHTD	County WASHINGTON	Route 16	Job Number: 040423
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	196,009.7239	
Easting (M)	197,277.6460	
Elevation (M)*		
Northing (SFT)	643,075.2358	
Easting (SFT)	647,235.0769	
Elevation (SFT)*		

Convergence Angle	-1	18	35.2476101
Scale Factor	0.999973163		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	167	4.90	16.1
MK # 2	COMBINATION POLE	265	1.75	5.7
MK # 3	MAIL BOX#6255	5	2.90	9.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ENES, OKMU	
Ref Mon # 2 SALI	
Ref Mon # 3 AGRONOMY	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 4 45.0933888
Longitude	94 15 3.2044608
Ellipsoid Height (M):	348.641
Geoid Height (M):	-28.017

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 112/I-540/16 OVER PASS, WEST OF FAYETTEVILLE, GO WEST ON HIGHWAY 16 2.65 MILES TO THE STATION ON THE LEFT, 4.30 METERS EAST OF A DRIVEWAY, SOUTH 7.90 METERS OF THE CENTERLINE AND NORTH 2.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720035 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720035A	Date Monumented 9/9/2003	Monumented By AHTD	County WASHINGTON	Route 16	Job Number: 040423
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	195,998.1990
Easting (M)	198,023.3890
Elevation (M)*	
Northing (SFT)	643,037.4246
Easting (SFT)	649,681.7354
Elevation (SFT)*	

Convergence Angle	-1	18	17.9018057
Scale Factor	0.999973171		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	40	5.50	18.0
MK # 2	MAIL BOX#5624	101	19.00	62.3
MK # 3				

AZ Mark Station	720035
Geodetic Azimuth	269 34 49
Grid Azimuth	270 53 07

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ENES, OKMU	
Ref Mon # 2 SALI	
Ref Mon # 3 AGRONOMY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720036	Date Monumented 9/7/2004	Monumented By AHTD	County WASHINGTON	Route 412	Job Number: 001966
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	207,325.8730	
Easting (M)	193,542.8000	
Elevation (M)*	392.672	
Northing (SFT)	680,201.6350	
Easting (SFT)	634,981.6697	
Elevation (SFT)*	1,288.290	

Convergence Angle	-1	20	8.2221595
Scale Factor	0.999989963		
Elevation Adjust. Factor	0.9999383808		
Combined Adjust. Factor	0.9999283444		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 112, NORTH OF FAYETTEVILLE, GO WEST ON 412 FOR 4.1 MILES TO COUNTY ROAD 58, (OLD HIGHWAY 68), AND TURN RIGHT ON CO. ROAD 58 AND GO 0.25 MILES TO THE STATION MARK ON THE LEFT, SOUTHEAST 38 METERS OF A GRAVEL DRIVE, SOUTHWEST 12.0 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTHEAST OF A WITNESS POST 0.50 METERS. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720036 2004" ON TOP OF 1.0 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WATER VALVE	280	235.00	771.0	720036
MK # 2	FENCE CORNER	224	0.60	2.0	133 40 49
MK # 3					135 00 57

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AGRONOMY Ref Mon # 2 V 26 Ref Mon # 3 SAL1	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720036A	Date Monumented 9/7/2004	Monumented By AHTD	County WASHINGTON	Route 412	Job Number: 001966
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	207,026.7339	
Easting (M)	193,841.7730	
Elevation (M)*	384.924	
Northing (SFT)	679,220.2095	
Easting (SFT)	635,962.5503	
Elevation (SFT)*	1,262.872	

Convergence Angle	-1	20	1.0997058
Scale Factor	0.999989486		
Elevation Adjust. Factor	0.9999395965		
Combined Adjust. Factor	0.9999290831		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE RISER	341	18.60	61.0	
MK # 2	FENCE CORNER	333	23.40	76.8	
MK # 3	FIRE HYDRANT	331	26.70	87.6	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AGRONOMY Ref Mon # 2 V 26 Ref Mon # 3 SAL1	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

Vertical Determined By: 3rd Order - 3 Wire Level

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 36 10 39.8665416

Longitude 94 17 30.7422240

Ellipsoid Height (M): 356.894

Geoid Height (M): -28.053

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 112, NORTH OF FAYETTEVILLE, GO WEST ON 412 FOR 4.1 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST 27.6 METERS OF AN ASPHALT DRIVE, NORTH 23.7 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720036A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720037	Date Monumented 9/8/2004	Monumented By AHTD	County WASHINGTON	Route 412	Job Number: 001966
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	210,450.9160	
Easting (M)	191,936.2140	
Elevation (M)*	320.986	
Northing (SFT)	690,454.3802	
Easting (SFT)	629,710.7288	
Elevation (SFT)*	1,053.101	

Convergence Angle	-1	20	47.3345883
Scale Factor	0.999995130		
Elevation Adjust. Factor	0.9999496294		
Combined Adjust. Factor	0.9999447596		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH 2 GUYS	277	29.00	95.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 AGRONOMY Ref Mon # 2 V 26 Ref Mon # 3 SAL1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.</td> </tr> </table>	Comments	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
Comments			
3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 112, WEST OF SPRINGDALE, GO WEST ON 412 FOR 4.1 MILES TO COUNTY ROAD 58 (OLD HIGHWAY 68) AND TURN RIGHT AND GO 2.4 MILES TO COUNTY ROAD 88 AND TURN RIGHT AND GO 1.1 MILES TO COUNTY ROAD 224 AND TURN RIGHT AND GO 2.5 MILES TO A ROAD INTERSECTION (NORTH GAICHE AND OSAGE HOG FARM ROAD) AND CONTINUE ON EAST 1.4 MILES TO ROCKY COMFORT ROAD AND TURN RIGHT AND GO 0.7 MILES TO THE STATION ON THE RIGHT, NORTH 2.5 METERS OF THE CENTER OF THE GRAVEL DRIVE AND EAST 29.0 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720037 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	720037A
Geodetic Azimuth	359 47 02
Grid Azimuth	1 07 49

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720037A	Date Monumented 9/8/2004	Monumented By AHTD	County WASHINGTON	Route 412	Job Number: 001966
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	211,317.7539	
Easting (M)	191,953.3170	
Elevation (M)*	325.735	
Northing (SFT)	693,298.3309	
Easting (SFT)	629,766.8409	
Elevation (SFT)*	1,068.682	

Convergence Angle	-1	20	47.4107943
Scale Factor	0.999996624		
Elevation Adjust. Factor	0.9999488842		
Combined Adjust. Factor	0.9999455084		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	255	34.90	114.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: AGRONOMY	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
Ref Mon # 2: V 26	
Ref Mon # 3: SAL1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720038	Date Monumented 9/9/2004	Monumented By AHTD	County WASHINGTON	Route 412	Job Number: 001966,012366
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	207,209.2080	
Easting (M)	214,576.6640	
Elevation (M)*	397.878	
Northing (SFT)	679,818.8766	
Easting (SFT)	703,990.2718	
Elevation (SFT)*	1,305.370	

Convergence Angle	-1	11	58.4547585
Scale Factor	0.999990535		
Elevation Adjust. Factor	0.9999375639		
Combined Adjust. Factor	0.9999280995		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND STATE HIGHWAY 71B, NORTH OF SPRINGDALE, GO EAST ON HIGHWAY 264 FOR 2.5 MILES TO NORTH MOUNTAIN DRIVE AND TURN RIGHT AND GO 0.2 MILES TO REED ROAD AND TURN LEFT AND GO 1.2 MILES TO LUPER ROAD AND TURN RIGHT AND GO 0.2 MILES TO MONITOR ROAD AND TURN LEFT AND GO 2.7 MILES TO THE STATION ON THE LEFT, NORTH 7.4 METERS OF THE CENTERLINE AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720038 2004" ON TOP OF A 0.61 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 AGRONOMY Ref Mon # 2 V 26 Ref Mon # 3 SAL1	Comments 3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720038A	Date Monumented 9/9/2004	Monumented By AHTD	County WASHINGTON	Route 412	Job Number: 001966,012366
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - 3 Wire Level
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 207,149.0010		Latitude 36 10 59.3554656
Easting (M) 215,540.5130		Longitude 94 3 2.6958996
Elevation (M)* 371.217		Ellipsoid Height (M): 343.280
		Geoid Height (M): -27.960

Northing (SFT) 679,621.3474		
Easting (SFT) 707,152.4997		
Elevation (SFT)* 1,217.900		

Convergence Angle -1 11 35.9843066		
Scale Factor 0.999990469		
Elevation Adjust. Factor 0.9999417474		
Combined Adjust. Factor 0.9999322170		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND STATE HIGHWAY 71B, NORTH OF SPRINGDALE, GO EAST ON HIGHWAY 264 FOR 2.5 MILES TO NORTH MOUNTAIN DRIVE AND TURN RIGHT AND GO 0.2 MILES TO REED ROAD AND TURN LEFT AND GO 1.2 MILES TO LUPER ROAD AND TURN RIGHT AND GO 0.2 MILES TO MONITOR ROAD AND TURN LEFT AND GO 3.40 MILES TO THE STATION ON THE RIGHT, SOUTHEAST 14.0 METERS OF THE CENTERLINE AND NORTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720038A 2004" ON TOP OF A 0.80 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station 720038
Geodetic Azimuth 272 22 52
Grid Azimuth 273 34 28

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AGRONOMY	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
Ref Mon # 2 V 26	
Ref Mon # 3 SAL1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720039A	Date Monumented 9/9/2004	Monumented By AHTD	County WASHINGTON	Route 412	Job Number: 001966
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	205,413.2840	
Easting (M)	216,899.5340	
Elevation (M)*	406.919	
Northing (SFT)	673,926.7493	
Easting (SFT)	711,611.2211	
Elevation (SFT)*	1,335.033	

Convergence Angle	-1	11	3.5068755
Scale Factor	0.999987700		
Elevation Adjust. Factor	0.9999361452		
Combined Adjust. Factor	0.9999238460		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	260	17.90	58.7
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: AGRONOMY	3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.
Ref Mon # 2: V 26	
Ref Mon # 3: SAL1	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 10 3.9690840
Longitude	94 2 6.8830800
Ellipsoid Height (M):	379.009
Geoid Height (M):	-27.953

Location Description
<p>TO REACH THE SATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 iAND STATE HIGHWAY 265, EAST OF SPRINGDALE, GO EAST ON 412 5.0 iMILES TO THE STATION MARK ON THE LEFT, NORTHWEST 22.1 METERS OF iTHE CENTERLINE OF HIGHWAY 412, AND SOUTHEAST 1.3 METERS OF A iWITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED i"720039A 2004" ON TOP OF A 0.80 METER IRON ROD DRIVEN FLUSH WITH iTHE GROUND.</p>

AZ Mark Station	720039
Geodetic Azimuth	74 11 57
Grid Azimuth	75 23 01

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720040	Date Monumented 10/6/2004	Monumented By AHTD	County WASHINGTON	Route 412	Job Number: 040440, 040520
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	205,459.9450	
Easting (M)	209,527.7690	
Elevation (M)*	411.407	
Northing (SFT)	674,079.8362	
Easting (SFT)	687,425.6888	
Elevation (SFT)*	1,349.758	

Convergence Angle	-1	13	55.1304074
Scale Factor	0.999987526		
Elevation Adjust. Factor	0.9999354410		
Combined Adjust. Factor	0.9999229678		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 412, EAST OF SPRINGDALE, GO EAST ON HIGHWAY 412 0.10 MILES TO THE STATION MARK ON THE RIGHT, EAST OF A CONCRETE DRIVE 8.20 METERS, SOUTH 11.60 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720040 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	LIGHT POLE		7.00	23.0	
MK # 2	TELEPHONE RISER		24.40	80.1	
MK # 3	TELEPHONE RISER		15.40	50.5	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 V 26 Ref Mon # 2 A 309 Ref Mon # 3 ENES	3-wire Levels ran from NGS G309 in Oct 05 by S5101 in Job 040440/012007.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720041	Date Monumented 10/6/2004	Monumented By AHTD	County WASHINGTON	Route 265	Job Number: 040440
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Zone	Zone Code	Vertical Determined By:
Arkansas North	301	LEVEL - Unkown Quality
Horizontal Datum	NAD 83 (1997)	
Northing (M)	201,318.4589	
Easting (M)	209,391.5680	
Elevation (M)*	389.892	
Northing (SFT)	660,492.3106	
Easting (SFT)	686,978.8360	
Elevation (SFT)*	1,279.169	

Convergence Angle	-1	13	56.2271278
Scale Factor	0.999981117		
Elevation Adjust. Factor	0.9999388171		
Combined Adjust. Factor	0.9999199352		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45 AND STATE HIGHWAY 265, NORTH OF FAYETTEVILLE, GO NORTH ON HIGHWAY 265 3.0 MILES TO THE STATION ON THE RIGHT, 24.9 METERS EAST OF THE CENTERLINE AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720041 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH 3 GUYS		15.80	51.8
MK # 2	SIGNAL LIGHT POLE		23.80	78.1
MK # 3	SS MANHOLE		9.30	30.5

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>V 26</td> </tr> <tr> <td>Ref Mon # 2</td> <td>A 309</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ENES</td> </tr> </table>	Ref Mon # 1	V 26	Ref Mon # 2	A 309	Ref Mon # 3	ENES	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;"> 3-wire Levels ran from NGS G309 in Oct 05 by S5101 in Job 040440/012007. </td> </tr> </table>	Comments	3-wire Levels ran from NGS G309 in Oct 05 by S5101 in Job 040440/012007.
Ref Mon # 1	V 26								
Ref Mon # 2	A 309								
Ref Mon # 3	ENES								
Comments									
3-wire Levels ran from NGS G309 in Oct 05 by S5101 in Job 040440/012007.									

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720041A	Date Monumented 10/6/2004	Monumented By AHTD	County WASHINGTON	Route 265	Job Number: 040440
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	201,338.1470	
Easting (M)	208,977.2670	
Elevation (M)*	388.070	
Northing (SFT)	660,556.9039	
Easting (SFT)	685,619.5835	
Elevation (SFT)*	1,273.193	

Convergence Angle	-1	14	5.8764743
Scale Factor	0.999981133		
Elevation Adjust. Factor	0.9999391029		
Combined Adjust. Factor	0.9999202370		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	MANHOLE		10.40	34.1	
MK # 2	COMBINATION POLE		3.30	10.8	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 V 26 Ref Mon # 2 A 309 Ref Mon # 3 ENES	3-wire Levels ran from NGS G309 in Oct 05 by S5101 in Job 040440/012007.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720042	Date Monumented 10/6/2004	Monumented By AHTD	County WASHINGTON	Route 45	Job Number: 040440, 040486
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	196,637.4409	
Easting (M)	208,800.0260	
Elevation (M)*	430.908	
Northing (SFT)	645,134.6707	
Easting (SFT)	685,038.0853	
Elevation (SFT)*	1,413.737	

Convergence Angle	-1	14	7.6416153
Scale Factor	0.999974372		
Elevation Adjust. Factor	0.9999323811		
Combined Adjust. Factor	0.9999067548		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>V 26</td> </tr> <tr> <td>Ref Mon # 2</td> <td>A 309</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ENES</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	V 26	Ref Mon # 2	A 309	Ref Mon # 3	ENES	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire Levels ran from NGS G309 in Oct 05 by S5101 in Job 040440/012007.</td> </tr> </table>	Comments	3-wire Levels ran from NGS G309 in Oct 05 by S5101 in Job 040440/012007.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	V 26										
Ref Mon # 2	A 309										
Ref Mon # 3	ENES										
Comments											
3-wire Levels ran from NGS G309 in Oct 05 by S5101 in Job 040440/012007.											

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 45, EAST OF FAYETTEVILLE, GO WEST ON HIGHWAY 45 FOR 0.06 MILES TO THE STATION MARK ON THE LEFT, 15.9 METERS SOUTH OF THE HIGHWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720042 2004" ON TOP OF A 0.80 METER IRON ROD DRIVEN FLUSH WITH THE GROIND.</p>	

AZ Mark Station	720014
Geodetic Azimuth	83 05 30
Grid Azimuth	84 19 37

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720043	Date Monumented 12/2/2004	Monumented By AHTD	County WASHINGTON	Route 59	Job Number: 040442
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	181,150.4109	
Easting (M)	176,335.1590	
Elevation (M)*		
Northing (SFT)	594,324.3064	
Easting (SFT)	578,526.2675	
Elevation (SFT)*		

Convergence Angle	-1	26	33.4651804
Scale Factor	0.999955242		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	130	27.80	91.2	AZ Mark Station 720043A
MK # 2	PIPE FENCE POST	214	2.60	8.5	Geodetic Azimuth 1 21 37
MK # 3	PIPE FENCE POST	338	2.70	8.9	Grid Azimuth 2 48 10

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SILOAM	
Ref Mon # 2 ENES	
Ref Mon # 3 SAL 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720043A	Date Monumented 12/2/2004	Monumented By 12/2/04	County WASHINGTON	Route 59	Job Number: 040442
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	181,958.2649	
Easting (M)	176,374.7100	
Elevation (M)*		
Northing (SFT)	596,974.7408	
Easting (SFT)	578,656.0277	
Elevation (SFT)*		

Convergence Angle	-1	26	33.0193656
Scale Factor	0.999956040		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PIPE FENCE POST	214	2.60	8.5
MK # 2	PIPE FENCE POST	343	2.60	8.5
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	SILOAM
Ref Mon # 2	ENES
Ref Mon # 3	SAL 1

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720044	Date Monumented 8/9/2005	Monumented By AHTD	County WASHINGTON	Route 412	Job Number: 001966
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	205,539.0370
Easting (M)	217,397.9320
Elevation (M)*	407.191
Northing (SFT)	674,339.3239
Easting (SFT)	713,246.3819
Elevation (SFT)*	1,335.924

Convergence Angle	-1	10	51.9652901
Scale Factor	0.999987918		
Elevation Adjust. Factor	0.9999361026		
Combined Adjust. Factor	0.9999240214		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Light pole with guy	042	6.35	20.8
MK # 2	Right of way marker	163	10.60	34.8
MK # 3	Guy wire	018	4.65	15.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="720039A"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="720038"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	3-Wire Elevations were ran from NGS J 309 and V 26 in Job 001966 - Springdale By-pass 12/2005.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720045	Date Monumented 8/15/2005	Monumented By AHTD	County WASHINGTON	Route 412	Job Number: 001966
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	207,148.9520	
Easting (M)	215,540.4100	
Elevation (M)*		
Northing (SFT)	679,621.1867	
Easting (SFT)	707,152.1618	
Elevation (SFT)*		

Convergence Angle	-1	11	35.9866821
Scale Factor	0.999990469		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	720038
Ref Mon # 2	AGRONOMY
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 10 59.3538060
Longitude	94 3 2.6999820
Ellipsoid Height (M):	343.116
Geoid Height (M):	-27.960

Location Description
<p>To reach the station from the junction of Highway 264 and Hwy-71B north of Springdale go east on hwy-264 for 2.50 miles to "North mountain road" on the right, go right on North mountain road for 0.20 miles to "Reed road", go left on Reed road for 1.20 miles to "Luper road", go right on Luper road for 0.20 miles to "Monitor road", go left on Monitor road for 3.40 miles to the station on the right. The station mark is a standard 64mm cap stamped "720045 2005" set on top of an iron rod 0.80 meters long and is just below the grounds surface. This station replaces 720038.</p>

AZ Mark Station	720038
Geodetic Azimuth	272 23 04
Grid Azimuth	273 34 40

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720048	Date Monumented 8/9/2005	Monumented By AHTD	County WASHINGTON	Route CR60	Job Number: 001966
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	209,321.0290	
Easting (M)	195,988.7300	
Elevation (M)*		
Northing (SFT)	686,747.4093	
Easting (SFT)	643,006.3583	
Elevation (SFT)*		

Convergence Angle	-1	19	12.3490688
Scale Factor	0.999993371		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	Telephone riser	278	5.15	16.9		720048A
MK # 2	Telephone riser	210	16.90	55.4		093 05 20
MK # 3						094 24 32

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 720036, 720037, 040050, 04005	
Ref Mon # 2 AGRONOMY	
Ref Mon # 3 	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720048A	Date Monumented 8/9/2005	Monumented By AHTD	County WASHINGTON	Route CR60	Job Number: 001966
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	209,284.9660	
Easting (M)	196,456.4530	
Elevation (M)*		
Northing (SFT)	686,629.0926	
Easting (SFT)	644,540.8796	
Elevation (SFT)*		

Convergence Angle	-1	19	1.4382116
Scale Factor	0.999993328		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Gas meter		016	18.20	59.7
MK # 2	Gas meter		252	15.40	50.5
MK # 3					

Area Reference Monuments (used for Processing)	
Ref Mon # 1	720036, 720037, 040050, 04005
Ref Mon # 2	AGRONOMY
Ref Mon # 3	

Comments

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 11 55.0743756
Longitude	94 15 48.2132952
Ellipsoid Height (M):	321.473
Geoid Height (M):	-28.037

Location Description
<p>To reach the station from the Washington and Benton county line on Hwy-112 north of Elm Springs go south on hwy-112 for 0.40 miles to county road 60 also known as "Water ave." on the right. Go right on Water ave. for 2.0 miles to the station on the left. 7.80 meters south of the center of county road 60, 6.50 meters from the center of a gravel drive and 0.50 meters north of a witness post. The station mark is a standard 64mm cap stamped "720048A 2005" set on top of an iron rod 1.22 meters long and is below the grounds surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720051	Date Monumented 1/30/2007	Monumented By AHTD	County WASHINGTON	Route NA	Job Number: 040272, 012111
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	202,333.0910	
Easting (M)	205,655.5600	
Elevation (M)*	367.137	

Northing (SFT)	663,821.1494	
Easting (SFT)	674,721.6164	
Elevation (SFT)*	1,204.516	

Convergence Angle	-1	15	23.6693137
Scale Factor	0.999982523		
Elevation Adjust. Factor	0.9999423875		
Combined Adjust. Factor	0.9999249115		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	334	4.57	15.0
MK # 2	SOUTHEAST COR OF BRIDGE WING WALL	270	17.92	58.8
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 SPRINGDALE Ref Mon # 2 A 309 Ref Mon # 3 ARHR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309.</td> </tr> </table>	Comments	3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309.
Comments			
3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309.			

Location Description
TO REACH THE STATION MARK FORM THE JUNCTION OF STATE HIGHWAY 412 (SUNSET) AND 71B (THOMPSON), IN SPRINGDALE, GO WEST ON HIGHWAY 412 FOR 0.90 MILES TO JOHNSON ROAD AND TURN LEFT (SOUTH) AND GO 2.5 MILES TO THE STATION MARK ON THE RIGHT, WEST 35.2 FEET OF THE CENTERLINE OF JOHNSON RD. AND NORTH 79.2 FEET OF NORTH HEWITT STREET, NORTH 24.3 FEET OF THE CENTERLINE OF THE RAILROAD AND SOUTH 31.0 FEET OF THE CENTERLINE OF OAK ROAD AND SOUTHWEST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720051 2007" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE ROAD.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720052	Date Monumented 9/30/2008	Monumented By AHTD	County WASHINGTON	Route 71B	Job Number: 040505
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	201,127.5639	
Easting (M)	206,989.4990	
Elevation (M)*	388.671	
Northing (SFT)	659,866.0159	
Easting (SFT)	679,098.0480	
Elevation (SFT)*	1,275.165	

Convergence Angle	-1	14	52.0186561
Scale Factor	0.999980754		
Elevation Adjust. Factor	0.9999390086		
Combined Adjust. Factor	0.9999197637		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Metal traffic pole	224	19.87	65.2
MK # 2	manhole	150	16.46	54.0
MK # 3	End of metal fence	68	13.07	42.9

Area Reference Monuments (used for Processing) Ref Mon # 1 720018 Reset Ref Mon # 2 ARHR, ARFY Ref Mon # 3 V 26	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>GPS DERIVED ELEVATIONS</td> </tr> </table>	Comments	GPS DERIVED ELEVATIONS
Comments			
GPS DERIVED ELEVATIONS			

Location Description	
To reach the station from the junction of highways 412 east and 71B on the south edge of Springdale go south on 71B for 2.80 miles to the station on the left. 57.40 feet east of the edge of the pavement and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "720052 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the grounds surface.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720052A	Date Monumented 9/30/2008	Monumented By AHTD	County WASHINGTON	Route 71B	Job Number: 040505
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	200,358.1290	
Easting (M)	206,900.3790	
Elevation (M)*	365.743	
Northing (SFT)	657,341.6282	
Easting (SFT)	678,805.6601	
Elevation (SFT)*	1,199.942	

Convergence Angle	-1	14	53.7020586
Scale Factor	0.999979613		
Elevation Adjust. Factor	0.9999426063		
Combined Adjust. Factor	0.9999222205		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Northeast end of bridge on south bound lane	200	55.17	181.0
MK # 2	End of guard rail	003	6.06	19.9
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 720018 Reset Ref Mon # 2 ARFY, ARHR Ref Mon # 3 V 26	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>GPS DERIVED ELEVATIONS</td> </tr> </table>	Comments	GPS DERIVED ELEVATIONS
Comments			
GPS DERIVED ELEVATIONS			

Location Description	
To reach the station from the junction of highways 412 east and 71B on the south edge of Springdale go south on 71B for 3.30 miles to the station on the left. Behind a guard rail 9.00 feet east of the edge of the southbound lane pavement and 4.20 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "720052A 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the grounds surface.	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 7 13.1095452
Longitude	94 8 42.4760136
Ellipsoid Height (M):	337.780
Geoid Height (M):	-27.963

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720053	Date Monumented 9/30/2008	Monumented By AHTD	County WASHINGTON	Route NA	Job Number: 040505, 012111
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	198,463.8870	
Easting (M)	204,626.3130	
Elevation (M)*	385.909	
Northing (SFT)	651,126.9359	
Easting (SFT)	671,344.8286	
Elevation (SFT)*	1,266.102	

Convergence Angle	-1	15	45.6344533
Scale Factor	0.999976802		
Elevation Adjust. Factor	0.9999394420		
Combined Adjust. Factor	0.9999162454		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	269	29.69	97.4
MK # 2	East end of gate	311	17.92	58.8
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	720018 Reset
Ref Mon # 2	ARFY, ARHR
Ref Mon # 3	V 26

Comments
3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS mark L310.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720054	Date Monumented	Monumented By	County WASHINGTON	Route NA	Job Number: 040151
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 205,640.6540		Geoid Datum:
Easting (M) 227,765.0620		Latitude 36 10 18.4144476
Elevation (M)*		Longitude 93 54 52.3819044
Northing (SFT) 674,672.7123		Ellipsoid Height (M): 381.975
Easting (SFT) 747,259.2076		Geoid Height (M): -27.926
Elevation (SFT)*		

Convergence Angle -1 6 50.6710203	Location Description
Scale Factor 0.999988415	
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL			
Horizontal Datum		Latitude	
Longitude		Ellipsoid Height:	
Grid Northing (Meters)		Grid Easting (Meters)	

Location Reference Marks				
Description	Azimuth	Distance		
		Meters	Feet	
MK # 1				AZ Mark Station
MK # 2				Geodetic Azimuth
MK # 3				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	Comments <div style="height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720055	Date Monumented 4/28/2009	Monumented By AHTD	County WASHINGTON	Route 16	Job Number: 040498, 040569
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	190,017.5999	
Easting (M)	217,413.7670	
Elevation (M)*	365.001	
Northing (SFT)	623,416.0757	
Easting (SFT)	713,298.3339	
Elevation (SFT)*	1,197.508	

Convergence Angle	-1	10	44.1609796
Scale Factor	0.999966009		
Elevation Adjust. Factor	0.9999427227		
Combined Adjust. Factor	0.9999087337		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	248	1.80	5.9
MK # 2	POWER POLE	287	15.51	50.9
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 GAYLOR Ref Mon # 2 ARFY Ref Mon # 3 ARHR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATIONS DETERMINED BY 3 WIRE DIGITAL LEVEL USING TBM 906 JOB#040486 AND TT 37 WM ON 9/2010 BY SS112.</td> </tr> </table>	Comments	ELEVATIONS DETERMINED BY 3 WIRE DIGITAL LEVEL USING TBM 906 JOB#040486 AND TT 37 WM ON 9/2010 BY SS112.
Comments			
ELEVATIONS DETERMINED BY 3 WIRE DIGITAL LEVEL USING TBM 906 JOB#040486 AND TT 37 WM ON 9/2010 BY SS112.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 74, EAST OF FAYETTEVILLE, GO WEST ON HIGHWAY 16 FOR 0.1 MILES TO THE STATION MARK ON THE LEFT, SOUTH 37.4 FEET OF THE CENTERLINE OF HIGHWAY 16, 34.0 FEET WEST OF THE CENTERLINE OF TWIN OAKS DRIVE, EAST 104.0 FEET OF A CONCRETE DRIVE, AND NORTH 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED " 720055 2009 " ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	720055A
Geodetic Azimuth	291 34 31
Grid Azimuth	292 45 15

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720055A	Date Monumented 4/28/2009	Monumented By AHTD	County WASHINGTON	Route 16	Job Number: 040498, 040569
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	190,200.4389	
Easting (M)	216,977.8340	
Elevation (M)*	364.196	
Northing (SFT)	624,015.9400	
Easting (SFT)	711,868.1104	
Elevation (SFT)*	1,194.866	

Convergence Angle	-1	10	54.3788857
Scale Factor	0.999966221		
Elevation Adjust. Factor	0.9999428491		
Combined Adjust. Factor	0.9999090720		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	CABLE MARKER	291		5.06	16.6
MK # 2	FENCE CORNER	8		1.55	5.1
MK # 3	GAS METER	89		13.56	44.5

Area Reference Monuments (used for Processing) Ref Mon # 1 GAYLOR Ref Mon # 2 ARFY Ref Mon # 3 ARHR	Comments ELEVATIONS DETERMINED BY 3 WIRE DIGITAL LEVEL USING TBM 906 JOB#040486 AND TT 37 WM ON 9/2010 BY SS112.
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Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 74, EAST OF FAYETTEVILLE, GO WEST ON HIGHWAY 16 FOR 0.4 MILES TO THE STATION MARK ON THE RIGHT, NORTH 36.3 FEET OF THE CENTERLINE OF HIGHWAY 16, 100.00 FEET WEST OF THE CENTERLINE OF A ASPHALT DRIVE, AND 4.4 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED " 720055A 2009 " ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

AZ Mark Station	720055
Geodetic Azimuth	111 34 21
Grid Azimuth	112 45 15

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720056	Date Monumented 12/2/2009	Monumented By AHTD	County WASHINGTON	Route 112	Job Number: 012111
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	191,114.9790	
Easting (M)	203,011.2740	
Elevation (M)*	391.867	
Northing (SFT)	627,016.3936	
Easting (SFT)	666,046.1548	
Elevation (SFT)*	1,285.649	

Convergence Angle	-1	16	19.4027731
Scale Factor	0.999966979		
Elevation Adjust. Factor	0.9999385071		
Combined Adjust. Factor	0.9999054882		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Northeast end of southeast guardrail	42	21.80	71.5
MK # 2	East corner of parapet wall	252	1.70	5.6
MK # 3	Center of a drop inlet	25	5.21	17.1

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309, B 309, L 310, and R 310.</td> </tr> </table>	Comments	3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309, B 309, L 310, and R 310.
Comments			
3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309, B 309, L 310, and R 310.			

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 2 10.5143352
Longitude	94 11 9.7536264
Ellipsoid Height (M):	363.906
Geoid Height (M):	-27.964

Location Description
<p>To reach the station from the junction of hwy-16 and 112 southwest of Fayetteville go south on hwy-112 for 0.90 miles to the station on the left at the top of the bank near the east corner of an overpass over hwy-71. 100.0 feet northeast of the center of hwy-71 north bound lane, 26.5 feet southeast of the center of 540 and 3.0 feet southeast of a witness post. The station is a 2 1/2 inch cap stamped "720056 2009" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.</p>

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720057	Date Monumented 8/17/2010	Monumented By AHTD	County WASHINGTON	Route 16	Job Number: 040569
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	192,056.6749	
Easting (M)	213,658.7590	
Elevation (M)*	371.243	
Northing (SFT)	630,105.9409	
Easting (SFT)	700,978.7785	
Elevation (SFT)*	1,217.985	

Convergence Angle	-1	12	12.4149839
Scale Factor	0.999968447		
Elevation Adjust. Factor	0.9999417433		
Combined Adjust. Factor	0.9999101921		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	332	5.03	16.5
MK # 2	SOUTHEAST CORNER STORM CELLAR	17	29.87	98.0
MK # 3	WATERWELL	30	28.04	92.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEVATIONS DETERMINED BY 3 WIRE DIGITAL LEVEL USING TBM 906 JOB#040486 AND TT 37 WM ON 9/2010 BY SS112.
Ref Mon # 2 OKHV	
Ref Mon # 3 720055	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 2 48.5231100
Longitude	94 4 5.3024160
Ellipsoid Height (M):	343.322
Geoid Height (M):	-27.921

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 16, SOUTHEAST OF FAYETTEVILLE, GO EAST ON HIGHWAY 16 3.45 MILES TO THE STATION MARK ON THE LEFT, NORTH 47.2 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720057 2010" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

AZ Mark Station	720057A
Geodetic Azimuth	266 30 12
Grid Azimuth	267 42 24

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720057A	Date Monumented 8/17/2010	Monumented By AHTD	County WASHINGTON	Route 16	Job Number: 040569, 040785
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	192,042.4949	
Easting (M)	213,304.6670	
Elevation (M)*	373.564	
Northing (SFT)	630,059.4187	
Easting (SFT)	699,817.0616	
Elevation (SFT)*	1,225.603	

Convergence Angle	-1	12	20.6382220
Scale Factor	0.999968420		
Elevation Adjust. Factor	0.9999413790		
Combined Adjust. Factor	0.9999098008		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	122	3.81	12.5
MK # 2	FENCE CORNER AND RIGHT OF WAY MKR	265	20.27	66.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 OKHV Ref Mon # 3 720055	ELEVATIONS DETERMINED BY 3 WIRE DIGITAL LEVEL USING TBM 906 JOB#040486 AND TT 37 WM ON 9/2010 BY SS112.

Vertical Determined By: 3rd Order - 3 Wire Level

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 36 2 47.8216176

Longitude 94 4 19.4341404

Ellipsoid Height (M): 345.642

Geoid Height (M): -27.922

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 16, SOUTHEAST OF FAYETTEVILLE, GO EAST ON HIGHWAY 16 3.25 MILES TO THE STATION MARK ON THE RIGHT, 26 FEET OF CENTERLINE OF CONCRETE DRIVE, SOUTH 32.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 6.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720057A 2010" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720058	Date Monumented 8/17/2010	Monumented By AHTD	County WASHINGTON	Route 16	Job Number: 040569
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	192,999.1239	
Easting (M)	208,796.2320	
Elevation (M)*	366.985	
Northing (SFT)	633,197.9590	
Easting (SFT)	685,025.6378	
Elevation (SFT)*	1,204.018	

Convergence Angle	-1	14	5.9059047
Scale Factor	0.999969520		
Elevation Adjust. Factor	0.9999424113		
Combined Adjust. Factor	0.9999119331		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE	227	8.29	27.2	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEVATIONS DETERMINED BY 3 WIRE DIGITAL LEVEL USING TBM 906 JOB#040486 AND TT 37 WM ON 9/2010 BY SS112.
Ref Mon # 2 OKHV	
Ref Mon # 3 720055	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720058A	Date Monumented 8/17/2010	Monumented By AHTD	County WASHINGTON	Route 16	Job Number: 040569
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	193,105.8359	
Easting (M)	209,221.5970	
Elevation (M)*	363.074	
Northing (SFT)	633,548.0633	
Easting (SFT)	686,421.1895	
Elevation (SFT)*	1,191.186	

Convergence Angle	-1	13	56.0716469
Scale Factor	0.999969669		
Elevation Adjust. Factor	0.9999430250		
Combined Adjust. Factor	0.9999126958		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH GUY	90	11.43	37.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 OKHV Ref Mon # 3 720055	ELEVATIONS DETERMINED BY 3 WIRE DIGITAL LEVEL USING TBM 906 JOB#040486 AND TT 37 WM ON 9/2010 BY SS112.

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 16, SOUTHEAST OF FAYETTEVILLE, GO EAST ON HIGHWAY 16 0.5 MILES TO THE STATION MARK ON THE RIGHT, 15.3 FEET NORTH OF A FENCE AND SOUTH 24.7 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720058A 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	720058
Geodetic Azimuth	254 41 04
Grid Azimuth	255 55 00

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720059	Date Monumented 9/22/2010	Monumented By AHTD	County WASHINGTON	Route 170	Job Number: 040570
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	187,308.2909	
Easting (M)	194,836.8430	
Elevation (M)*	350.772	
Northing (SFT)	614,527.2844	
Easting (SFT)	639,227.2091	
Elevation (SFT)*	1,150.824	

Convergence Angle	-1	19	27.3226945
Scale Factor	0.999962231		
Elevation Adjust. Factor	0.9999449555		
Combined Adjust. Factor	0.9999071886		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	24	6.00	19.7
MK # 2	TELEPHONE BOX	301	10.05	33.0
MK # 3	COMBINATION POLE	285	23.89	78.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR, AGRONOMY	ELEVATIONS BY 3 WIRE DIGITAL LEVELS FROM 720022 AND CHECKED USING GPS FROM AGRONOMY. CREW S5112 ON 9-2010
Ref Mon # 2 OKMU	
Ref Mon # 3 SAL 5	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 0 1.0275768
Longitude	94 16 32.6960616
Ellipsoid Height (M):	322.744
Geoid Height (M):	-28.028

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 170 AND STATE HIGHWAY 62, WEST OF FARMINGTON, GO EAST ON 170 FOR 0.65 MILES TO THE MARK ON THE LEFT, NORTH 11.4 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720059 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

AZ Mark Station	720059A
Geodetic Azimuth	91 57 02
Grid Azimuth	93 16 29

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720059A	Date Monumented 9/22/2010	Monumented By AHTD	County WASHINGTON	Route 170	Job Number: 040570
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	187,293.4089	
Easting (M)	195,096.9430	
Elevation (M)*	345.842	
Northing (SFT)	614,478.4590	
Easting (SFT)	640,080.5538	
Elevation (SFT)*	1,134.650	

Convergence Angle	-1	19	21.2729858
Scale Factor	0.999962221		
Elevation Adjust. Factor	0.9999457291		
Combined Adjust. Factor	0.9999079521		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	FENCE CORNER	137	41.76	137.0	
MK # 2	COMBINATION POLE	47	14.33	47.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR, AGRONOMY	ELEVATIONS BY 3 WIRE DIGITAL LEVELS FROM 720022 AND CHECKED USING GPS FROM AGRONOMY. CREW S5112 ON 9-2010
Ref Mon # 2 OKMU	
Ref Mon # 3 SAL 5	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 0 0.7397568
Longitude	94 16 22.2995712
Ellipsoid Height (M):	317.817
Geoid Height (M):	-28.025

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 170 AND STATE HIGHWAY 62, WEST OF FARMINGTON, GO EAST ON 170 FOR 0.85 MILES TO THE MARK ON THE RIGHT, SOUTH 14.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 17.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720059A 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

AZ Mark Station	720059
Geodetic Azimuth	271 57 08
Grid Azimuth	273 16 29

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720060	Date Monumented 9/22/2010	Monumented By AHTD	County WASHINGTON	Route 170	Job Number: 040570
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	187,306.0970	
Easting (M)	194,943.3500	
Elevation (M)*	345.774	
Northing (SFT)	614,520.0866	
Easting (SFT)	639,576.6408	
Elevation (SFT)*	1,134.425	

Convergence Angle	-1	19	24.8475233
Scale Factor	0.999962231		
Elevation Adjust. Factor	0.9999457398		
Combined Adjust. Factor	0.9999079728		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTHEAST COR BRIDGE	275	8.23	27.0	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARHR, AGRONOMY	ELEVATIONS BY 3 WIRE DIGITAL LEVELS FROM 720022 AND CHECKED USING GPS FROM AGRONOMY. CREW S5112 ON 9-2010
Ref Mon # 2: OKMU	
Ref Mon # 3: SAL 5	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720061	Date Monumented 7/24/2014	Monumented By AHTD	County WASHINGTON	Route CR58	Job Number: BR0405
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	208,513.4552 0.0040
Easting (M)	190,204.0468 0.0040
Elevation (M)*	
Northing (SFT)	684,097.8943
Easting (SFT)	624,027.7769
Elevation (SFT)*	

Convergence Angle	-1	21	26.6052988
Scale Factor	0.999991792		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	PIPE FENCE CORNER	279	9.33	30.6	40113
MK # 2	POWER POLE W/2 GUYS AND TRANSFORM	310	17.50	57.4	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 MOA2 Ref Mon # 3 CTA1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720062	Date Monumented 3/29/2016	Monumented By AHTD	County WASHINGTON	Route 180	Job Number: 040420, 040720
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	197,235.4954	0.0010			
Easting (M)	205,342.9365	0.0020			
Elevation (M)*	385.890	0.0031			
Northing (SFT)	647,096.7878				
Easting (SFT)	673,695.9508				
Elevation (SFT)*	1,266.041				

Convergence Angle	-1	15	28.3392518
Scale Factor	0.999975096		
Elevation Adjust. Factor	0.9999394449		
Combined Adjust. Factor	0.9999145425		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	185	22.10	72.5
MK # 2	RAILROAD CROSSING SIGN	280	3.60	11.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CTAI	Three wire based on NGS BM B27 Rese, by crew S5102 in April 2016.
Ref Mon # 2 ARFY	
Ref Mon # 3 ARHR	

AZ Mark Station	720062A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720062A	Date Monumented 3/29/2016	Monumented By AHTD	County WASHINGTON	Route 180	Job Number: 040420, 040720
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	197,714.8136	0.0010			
Easting (M)	205,411.9126	0.0020			
Elevation (M)*	381.207	0.0007			
Northing (SFT)	648,669.3510				
Easting (SFT)	673,922.2499				
Elevation (SFT)*	1,250.678				

Convergence Angle	-1	15	26.9798493
Scale Factor	0.999975768		
Elevation Adjust. Factor	0.9999401797		
Combined Adjust. Factor	0.9999159492		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	263	7.80	25.6
MK # 2	POWER POLE WITH LIGHT	18	40.40	132.5
MK # 3	POWER POLE WITH LIGHT	159	47.10	154.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CTAI Ref Mon # 2 ARFY Ref Mon # 3 ARHR	Three wire based on NGS BM B27 Rese, by crew S5102 in April 2016.

Vertical Determined By: None

Elevation Datum:

Geoid Datum: GEOID12A

Latitude 36 5 46.3129440

Longitude 94 9 39.6642600

Ellipsoid Height (M): 353.091 0.0090

Geoid Height (M): -28.070

Location Description

TO REACH FROM THE INTERSECTION OF HWY. 180 (TOWNSHIP ST) AND GREGG AVE. GO NORTH ON GREGG AVE FOR 0.01 MILES TO THE STATION ON THE LEFT. THE STATION IS 18 FT. EAST OF A WITNESS POST, 90 FT. WEST OF THE CENTERLINE OF GREGG AVE., 24 FT. WEST OF NEAREST RAIL, AND 18.5 FT. EAST OF A WOOD FENCE. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "720062A 2016" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720063	Date Monumented 3/29/2016	Monumented By AHTD	County WASHINGTON	Route 180	Job Number: 040420, 040720, CB7201
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	200,052.1273	0.0010			
Easting (M)	204,894.1104	0.0010			
Elevation (M)*	365.983	0.0015			
Northing (SFT)	656,337.6877				
Easting (SFT)	672,223.4272				
Elevation (SFT)*	1,200.729				

Convergence Angle	-1	15	40.2190507
Scale Factor	0.999979100		
Elevation Adjust. Factor	0.9999425687		
Combined Adjust. Factor	0.9999216699		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOOD FENCE CORNER POST	17	3.70	12.1
MK # 2	TELEPHONE BOX	72	32.50	106.6
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>CTAI</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARHR</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	CTAI	Ref Mon # 2	ARFY	Ref Mon # 3	ARHR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> Superceded elevation of 366.0016m was based on digital levels by S5102 in April 2016 from NGS 1st Order BM B 27 reset. *****UPDATE D ELEV. BASED ON DIGITAL LEVELS BY S5103 IN MARCH 2023 FROM 1ST ORDER NGS PUBLISHED BM A 309 FOR JOB #CB7201 </td> </tr> </table>	Comments	Superceded elevation of 366.0016m was based on digital levels by S5102 in April 2016 from NGS 1st Order BM B 27 reset. *****UPDATE D ELEV. BASED ON DIGITAL LEVELS BY S5103 IN MARCH 2023 FROM 1ST ORDER NGS PUBLISHED BM A 309 FOR JOB #CB7201
Area Reference Monuments (used for Processing)											
Ref Mon # 1	CTAI										
Ref Mon # 2	ARFY										
Ref Mon # 3	ARHR										
Comments											
Superceded elevation of 366.0016m was based on digital levels by S5102 in April 2016 from NGS 1st Order BM B 27 reset. *****UPDATE D ELEV. BASED ON DIGITAL LEVELS BY S5103 IN MARCH 2023 FROM 1ST ORDER NGS PUBLISHED BM A 309 FOR JOB #CB7201											

Vertical Determined By: 3rd Order - Digital Levels	
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12A
Latitude	36 7 1.7585400
Longitude	94 10 2.4159720
Ellipsoid Height (M):	337.880 0.0090
Geoid Height (M):	-28.081

Location Description
TO REACH FROM THE INTERSECTION OF HWY 180 (TOWNSHIP ST) AND GREGG AVE. GO NORTH ON GREGG AVE. FOR 1.5 MILES TO VAN ASCHE DR. THEN GO WEST (LEFT) ON VAN ASCHE DR FOR 0.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12 FT. SOUTH OF A WITNESS POST, 40.5 FT. NORTH OF THE CENTERLINE OF VAN ASCHE DR., 43.5 FT. WEST OF THE CENTERLINE OF ROOSEVELT AVE., AND 20 FT. EAST OF THE CENTER OF A MANHOLE. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "720063 2016" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720063A	Date Monumented 3/29/2016	Monumented By AHTD	County WASHINGTON	Route 180	Job Number: 040420, 040720, CB7201
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	200,053.7855 0.0010
Easting (M)	204,421.3979 0.0010
Elevation (M)*	370.974 0.0017
Northing (SFT)	656,343.1279
Easting (SFT)	670,672.5363
Elevation (SFT)*	1,217.104

Convergence Angle	-1	15	51.2166091
Scale Factor	0.999979087		
Elevation Adjust. Factor	0.9999417855		
Combined Adjust. Factor	0.9999208737		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EASTERN POST OF WOOD "H" BRACE	206	6.70	22.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CTAI	Superceded elevation of 370.9834m was based on digital levels by S5102 in April 2016 from NGS 1st Order BM B 27 reset. *****UPDATE D ELEV. BASED ON DIGITAL LEVELS BY S5103 IN MARCH 2023 FROM 1ST ORDER NGS PUBLISHED BM A 309 FOR JOB #CB7201
Ref Mon # 2 ARFY	
Ref Mon # 3 ARHR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720064	Date Monumented 4/5/2018	Monumented By ARDOT	County WASHINGTON	Route 112	Job Number: 012270, 040751
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	200,168.3144 0.0020
Easting (M)	202,484.4649 0.0020
Elevation (M)*	382.519
Northing (SFT)	656,718.8782
Easting (SFT)	664,317.7819
Elevation (SFT)*	1,254.982

Convergence Angle	-1	16	36.3345895
Scale Factor	0.999979192		
Elevation Adjust. Factor	0.9999399739		
Combined Adjust. Factor	0.9999191671		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH LIGHT AND METE	209	18.07	59.3
MK # 2	SIGN "WOODLAND ESTATES"	322	15.54	51.0
MK # 3	18" RCP	49	4.84	15.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
Ref Mon # 2 CTA1	
Ref Mon # 3 MOA2	

Vertical Determined By: 3rd Order - Digital Levels	Elevation Datum: NAVD 88
Geoid Datum: GEOID12B	Latitude 36 7 3.7958916
Longitude 94 11 38.8511376	Ellipsoid Height (M): 354.429 0.0020
Geoid Height (M): -28.096 0.0020	

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND I 49, IN FAYETTEVILLE, GO NORTH ON HIGHWAY 112 1.5 MILES TO THE MARK ON THE LEFT, 55.8' WEST OF THE C/L OF THE HIGHWAY AND 33' NORTH OF THE C/L OF W HOWARD NICKLE RD, ALSO KNOWN AS COUNTY ROAD 119. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720064 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720064A	Date Monumented 4/5/2018	Monumented By ARDOT	County WASHINGTON	Route EN ACRI	Job Number: 012270, 040751
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	200,726.8936	0.0010			
Easting (M)	202,520.5040	0.0010			
Elevation (M)*	394.220				
Northing (SFT)	658,551.4834				
Easting (SFT)	664,436.0202				
Elevation (SFT)*	1,293.370				

Convergence Angle	-1	16	35.7857841
Scale Factor	0.999980014		
Elevation Adjust. Factor	0.9999381378		
Combined Adjust. Factor	0.9999181531		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END 12" CMP	72	13.41	44.0
MK # 2	NORTH END 12" CMP	40	20.60	67.6
MK # 3	POWERPOLE W/2 GUYS	5	42.76	140.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
Ref Mon # 2 CTA1	
Ref Mon # 3 MOA2	

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND I 49, IN FAYETTEVILLE, GO NORTH ON HIGHWAY 112 1.75 MILES TO HIDDEN ACRES RD AND GO STRAIGHT (NORTH) ON HIDDEN ACRES RD 0.1 MILES TO THE MARK ON THE LEFT AND 28.3' WEST OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720064A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	720064
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720065	Date Monumented 4/5/2018	Monumented By ARDOT	County WASHINGTON	Route 112	Job Number: 012270, 040751
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	203,386.0559	0.0010	
Easting (M)	201,565.5608	0.0010	
Elevation (M)*	406.724		
Northing (SFT)	667,275.7517		
Easting (SFT)	661,303.0107		
Elevation (SFT)*	1,334.393		

Convergence Angle	-1	16	59.3877203
Scale Factor	0.999983996		
Elevation Adjust. Factor	0.9999361759		
Combined Adjust. Factor	0.9999201729		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH 1 GUY	330	22.25	73.0
MK # 2	CENTER OF CHAINLINK GATE	179	26.45	86.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
Ref Mon # 2: CTA1	
Ref Mon # 3: MOA2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720065A	Date Monumented 4/5/2018	Monumented By ARDOT	County WASHINGTON	Route 112	Job Number: 012270, 040751
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	203,788.1243 0.0020
Easting (M)	201,428.8531 0.0010
Elevation (M)*	400.280
Northing (SFT)	668,594.8711
Easting (SFT)	660,854.4955
Elevation (SFT)*	1,313.251

Convergence Angle	-1	17	2.7788317
Scale Factor	0.999984613		
Elevation Adjust. Factor	0.9999371870		
Combined Adjust. Factor	0.9999218010		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/ELECTRIC BOX	180	28.04	92.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
Ref Mon # 2 CTA1	
Ref Mon # 3 MOA2	

AZ Mark Station	720065
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720066	Date Monumented 4/5/2018	Monumented By ARDOT	County WASHINGTON	Route 412	Job Number: 012270, 040751, 012305
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	206,666.7494	0.0010			
Easting (M)	200,344.7724	0.0010			
Elevation (M)*	395.710				
Northing (SFT)	678,039.1603				
Easting (SFT)	657,297.8074				
Elevation (SFT)*	1,298.259				

Convergence Angle	-1	17	29.5183035
Scale Factor	0.999989144		
Elevation Adjust. Factor	0.9999379041		
Combined Adjust. Factor	0.9999270487		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	DROP INLET	79	11.28	37.0
MK # 2	TELEPHONE BOX	114	3.41	11.2
MK # 3	COMBINATION POLE W/2 GUYS	262	29.87	98.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 CTA1 Ref Mon # 3 MOA2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
Comments			
ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.			

Location Description
THE STATION MARK IS IN THE SOUTHWEST CORNER OF THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 112, IN TONTITOWN, 10.5' SOUTH OF THE BACK OF CURB OF HIGHWAY 412. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "720066 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	720066A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720066A	Date Monumented 4/5/2018	Monumented By ARDOT	County WASHINGTON	Route 412	Job Number: 012270, 040751, 012305
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	206,711.3437 0.0020
Easting (M)	199,892.4435 0.0020
Elevation (M)*	392.166
Northing (SFT)	678,185.4668
Easting (SFT)	655,813.7917
Elevation (SFT)*	1,286.632

Convergence Angle	-1	17	40.0718968
Scale Factor	0.999989199		
Elevation Adjust. Factor	0.9999384601		
Combined Adjust. Factor	0.9999276598		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/GAS METER	295	20.72	68.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
Ref Mon # 2 CTA1	
Ref Mon # 3 MOA2	

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 412, IN TONTITOWN, GO WEST ON HIGHWAY 412 0.3 MILES TO THE MARK ON THE RIGHT 5.5' NORTH OF THE NORTH EDGE OF THE PAVEMENT OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720066A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	720066
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720067	Date Monumented 4/5/2018	Monumented By ARDOT	County WASHINGTON	Route 112	Job Number: 012270, 012305
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	209,469.6873	0.0020			
Easting (M)	199,301.4080	0.0020			
Elevation (M)*	361.256				
Northing (SFT)	687,235.1324				
Easting (SFT)	653,874.7027				
Elevation (SFT)*	1,185.221				

Convergence Angle	-1	17	55.2868771		
Scale Factor	0.999993749				
Elevation Adjust. Factor	0.9999433104				
Combined Adjust. Factor	0.9999370597				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 412, IN TONTITOWN, GO NORTH ON HIGHWAY 112 1.9 MILES TO THE MARK ON THE LEFT 18.8' WEST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720067 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	COMBINATION POLE W/GUY	245		3.51	11.5
MK # 2	CENTER OF HDWL	141		11.73	38.5
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY</p> <p>Ref Mon # 2 CTA1</p> <p>Ref Mon # 3 MOA2</p>	<p style="text-align: center;">Comments</p> <p>ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720067A	Date Monumented 4/5/2018	Monumented By ARDOT	County WASHINGTON	Route 112	Job Number: 012270, 012305
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	209,871.9889 0.0020
Easting (M)	198,992.3823 0.0020
Elevation (M)*	355.124
Northing (SFT)	688,555.0169
Easting (SFT)	652,860.8409
Elevation (SFT)*	1,165.101

Convergence Angle	-1	18	2.6959024
Scale Factor	0.999994420		
Elevation Adjust. Factor	0.9999442726		
Combined Adjust. Factor	0.9999386930		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE W/GUT	342	11.43	37.5
MK # 2	SOUTHWEST CORNER OF BRIDGE END	7	25.45	83.5
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 CTA1 Ref Mon # 3 MOA2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
Comments			
ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 412, IN TONTITOWN, GO NORTH ON HIGHWAY 112 2.2 MILES TO THE MARK ON THE LEFT, 50' WEST OF THE C/L OF THE HIGHWAY AND NORTH 31.6' OF THE C/L OF SCOTT ST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720067A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12B
Latitude	36 12 15.9938712
Longitude	94 14 7.2639960
Ellipsoid Height (M):	326.997 0.0040
Geoid Height (M):	-28.124 0.0040

AZ Mark Station	720067
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720068	Date Monumented 4/6/2020	Monumented By ARDOT	County WASHINGTON	Route CR 25	Job Number: 040784
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	197,980.3294	0.0030	
Easting (M)	174,427.6559	0.0030	
Elevation (M)*			
Northing (SFT)	649,540.4640		
Easting (SFT)	572,268.0677		
Elevation (SFT)*			

Convergence Angle	-1	27	27.6782156
Scale Factor	0.999975113		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFS	
Ref Mon # 2 ARFY	
Ref Mon # 3 ARRV, CTA1	

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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720068A	Date Monumented 4/6/2020	Monumented By ARDOT	County WASHINGTON	Route CR 25	Job Number: 040784
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	198,437.9175	0.0030	
Easting (M)	174,293.2657	0.0040	
Elevation (M)*			
Northing (SFT)	651,041.7343		
Easting (SFT)	571,827.1559		
Elevation (SFT)*			

Convergence Angle	-1	27	31.0742457
Scale Factor	0.999975748		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	MIDDLE POST OF 3 PIPE POST	98	15.67	51.4	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARFS	
Ref Mon # 2: ARFY	
Ref Mon # 3: ARRV, CTA1	

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	Geoid 18
Latitude	36 5 45.8384316
Longitude	94 30 24.0283800
Ellipsoid Height (M):	265.657 0.0120
Geoid Height (M):	-28.421 0.0120

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 244, SOUTH OF SILOAM SPRINGS, GO EAST ON HIGHWAY 244 1.65 MILES TO COUNTY ROAD 25 AND TURN LEFT (NORTH) AND GO 0.10 MILES TO THE MARK ON THE LEFT, 21' WEST OF THE C/L OF CR 25 AND EAST 11.4' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720068A 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720069	Date Monumented 9/29/2020	Monumented By ARDOT	County WASHINGTON	Route 71	Job Number: 04X114
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	183,725.6492	0.0030			
Easting (M)	204,631.9285	0.0030			
Elevation (M)*					
Northing (SFT)	602,773.2341				
Easting (SFT)	671,363.2521				
Elevation (SFT)*					

Convergence Angle	-1	15	37.9609255
Scale Factor	0.999958538		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER ROCK HOUSE	123	21.82	71.6
MK # 2	TELEPHONE BOX	35	14.78	48.5
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM NGS 1ST ORDER BM W 310 IN OCT. 2020 FOR NON-PROGRAMMED JOB #04X114.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720070	Date Monumented 10/7/2020	Monumented By ARDOT	County WASHINGTON	Route 45	Job Number: 04X219, 04X098
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	173,653.6952	0.0030			
Easting (M)	177,668.5347	0.0030			
Elevation (M)*					
Northing (SFT)	569,728.8317				
Easting (SFT)	582,900.8509				
Elevation (SFT)*					

Convergence Angle	-1	25	58.1651327
Scale Factor	0.999948642		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE SATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND HIGHWAY 45N, NORTH OF DUTCH MILLS, GO NORTH ON HIGHWAY 45 FOR 1.6 MILES TO THE MARK ON THE LEFT, NORTH 31.1' OF THE C/L OF THE HIGHWAY AND SOUTH 8.2' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP ON TOP OF A 4' REBAR STAMPED "2020 720070" AND DRIVEN BELOW THE SURFACE OF THE GROUND.</p>				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE BOX	214	22.28	73.1	AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 ARRV Ref Mon # 3 ARHR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720070A	Date Monumented 10/7/2020	Monumented By ARDOT	County WASHINGTON	Route CR 433	Job Number: 04X219, 04X098
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	173,628.3573	0.0030			
Easting (M)	177,295.0097	0.0030			
Elevation (M)*					

Northing (SFT)	569,645.7022				
Easting (SFT)	581,675.3777				
Elevation (SFT)*					

Convergence Angle	-1	26	6.8126947		
Scale Factor	0.999948615				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NORTHWEST CORNER OF A CHICKEN HOUSE	192	8.72	28.6	
MK # 2	SOUTHEAST CORNER OF A METAL BARN	263	28.04	92.0	
MK # 3	WATER WELL	111	10.67	35.0	

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARRV</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARHR</td> </tr> </table>	Ref Mon # 1	ARFY	Ref Mon # 2	ARRV	Ref Mon # 3	ARHR	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARFY							
Ref Mon # 2	ARRV							
Ref Mon # 3	ARHR							
Comments								

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730001	Date Monumented 8/11/1994	Monumented By AHTD	County WHITE	Route 5	Job Number: 005980, 001748
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	101,812.3021	
Easting (M)	393,761.9840	
Elevation (M)*	187.302	
Northing (SFT)	334,029.1945	
Easting (SFT)	1,291,867.4425	
Elevation (SFT)*	614.507	

Convergence Angle	0	2	23.5936658
Scale Factor	0.999952747		
Elevation Adjust. Factor	0.9999706071		
Combined Adjust. Factor	0.9999233555		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	5	22.00	72.2
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	SEARPORT
Ref Mon # 2	HEBEPOR
Ref Mon # 3	TT 30 RDM

Comments

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 15 3.6954108
Longitude	92 4 6.7672812
Ellipsoid Height (M):	158.980
Geoid Height (M):	-28.276

Location Description
<p>FROM THE WESTERNMOST JCT. OF HWY. 5 AND HWY. 36 IN THE WESTERN EDGE OF THE TOWN OF ROSEBUD, GO SOUTH ON HWY. 5 FOR 9.54 KM (5.93 MILES) TO THE STATION ON THE LEFT. THE STATION 10.9 METERS EAST OF THE CENTERLINE OF HWY. 5, 28.5 METERS WEST OF THE CENTER OF "HILLTOP ACRES ROAD" AND 1.31 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "730001" SET ON TOP OF A 3/4" REBAR 1.22 METERSIN LENGTH AND IS FLUSH WITH THE GROUND.</p>

AZ Mark Station	730001A
Geodetic Azimuth	184 44 37.14648
Grid Azimuth	184 47 00.74413

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730001A	Date Monumented 8/11/1994	Monumented By AHTD	County WHITE	Route 5	Job Number: 005980, 001748
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Vertical Determined By:</td> <td colspan="2">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>14 47.1880788</td> </tr> <tr> <td>Longitude</td> <td>92</td> <td>4 8.4370692</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>159.687</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.273</td> <td></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	35	14 47.1880788	Longitude	92	4 8.4370692	Ellipsoid Height (M):	159.687		Geoid Height (M):	-28.273	
Vertical Determined By:	LEVEL - Unkown Quality																						
Elevation Datum:	NAVD 88																						
Geoid Datum:																							
Latitude	35		14 47.1880788																				
Longitude	92		4 8.4370692																				
Ellipsoid Height (M):	159.687																						
Geoid Height (M):	-28.273																						
Horizontal Datum NAD 83 (1986)																							
Northing (M)	101,303.6312																						
Easting (M)	393,719.4170																						
Elevation (M)*	188.009																						
Northing (SFT)	332,360.3300																						
Easting (SFT)	1,291,727.7873																						
Elevation (SFT)*	616.826																						

Convergence Angle	0	2	24.5653139
Scale Factor	0.999953212		
Elevation Adjust. Factor	0.9999704961		
Combined Adjust. Factor	0.9999237095		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

FROM THE WESTERNMOST JCT. OF HWY. 5 AND HWY. 36 IN THE WESTERN EDGE OF THE TOWN OF ROSEBUD, GO SOUTH ON HWY. 5 FOR 10.04 KM (6.24 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.95 METERS EAST OF THE CENTERLINE OF HWY. 5 AND 0.92 METERS EAST OF A WITNESS POST AND FENCE. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "730001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks											
Description		Azimuth	Distance								
			Meters	Feet							
MK # 1	COMBINATION POLE	98	24.40	80.1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">AZ Mark Station</td> <td>730001</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>4 44 36.18332</td> </tr> <tr> <td>Grid Azimuth</td> <td>4 47 00.74465</td> </tr> </table>	AZ Mark Station	730001	Geodetic Azimuth	4 44 36.18332	Grid Azimuth	4 47 00.74465
AZ Mark Station	730001										
Geodetic Azimuth	4 44 36.18332										
Grid Azimuth	4 47 00.74465										
MK # 2	NONE										
MK # 3	NONE										

Area Reference Monuments (used for Processing)	Comments						
<table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>SEARPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>HEBEPOR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>TT 30 RDM</td> </tr> </table>	Ref Mon # 1	SEARPORT	Ref Mon # 2	HEBEPOR	Ref Mon # 3	TT 30 RDM	
Ref Mon # 1	SEARPORT						
Ref Mon # 2	HEBEPOR						
Ref Mon # 3	TT 30 RDM						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730002	Date Monumented 8/11/1994	Monumented By AHTD	County WHITE	Route 5	Job Number: 005980, 001748,050067
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	106,861.1401	
Easting (M)	392,554.0440	
Elevation (M)*	195.618	
Northing (SFT)	350,593.5905	
Easting (SFT)	1,287,904.3927	
Elevation (SFT)*	641.790	

Convergence Angle	0	2	51.4960045
Scale Factor	0.999948471		
Elevation Adjust. Factor	0.9999693021		
Combined Adjust. Factor	0.9999177747		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER POST	149	2.70	8.9
MK # 2	18" METAL CULVERT	215	5.33	17.5
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 SEARPORT Ref Mon # 2 HEBEPORT Ref Mon # 3 TT 30 RDM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 17 47.4999180
Longitude	92 4 54.7177548
Ellipsoid Height (M):	167.311
Geoid Height (M):	-28.303

Location Description
FROM THE WESTERNMOST JCT. OF HWY. 5 AND HWY. 36 IN THE WESTERN PART OF THE TOWN OF ROSEBUD, GO SOUTH ON HWY. 5 FOR 4.02 KM (2.5 MILES) TO THE STATION ON THE LEFT. THE STATION IS 11.10 METERS EAST OF THE CENTERLINE OF HWY. 5, 8.0 METERS NORTH OF THE CENTER OF A CONCRETE DRIVEWAY, 1.15 METERS WEST OF A BRACE POST AND 0.97 METERS WEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "730002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730002A	Date Monumented 8/11/1994	Monumented By AHTD	County WHITE	Route 5	Job Number: 005980, 001748
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Vertical Determined By:</td> <td colspan="3">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="3">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="3"></td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>17</td> <td>29.4690732</td> </tr> <tr> <td>Longitude</td> <td>92</td> <td>4</td> <td>56.0774748</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>163.370</td> <td colspan="2"></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.301</td> <td colspan="2"></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality			Elevation Datum:	NAVD 88			Geoid Datum:				Latitude	35	17	29.4690732	Longitude	92	4	56.0774748	Ellipsoid Height (M):	163.370			Geoid Height (M):	-28.301		
Vertical Determined By:	LEVEL - Unkown Quality																													
Elevation Datum:	NAVD 88																													
Geoid Datum:																														
Latitude	35		17	29.4690732																										
Longitude	92		4	56.0774748																										
Ellipsoid Height (M):	163.370																													
Geoid Height (M):	-28.301																													
Horizontal Datum NAD 83 (1986)																														
Northing (M)	106,305.5171																													
Easting (M)	392,519.2270																													
Elevation (M)*	191.668																													
Northing (SFT)	348,770.6840																													
Easting (SFT)	1,287,790.1639																													
Elevation (SFT)*	628.831																													

Convergence Angle	0	2	52.2872244
Scale Factor	0.999948911		
Elevation Adjust. Factor	0.9999699219		
Combined Adjust. Factor	0.9999188345		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					730002
MK # 2	NONE					3 32 15.824935
MK # 3	NONE					3 35 08.109346

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEARPORT Ref Mon # 2 HEBEPORT Ref Mon # 3 TT 30 RDM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730003	Date Monumented 12/5/1995	Monumented By AHTD	County WHITE	Route 5	Job Number: 001748
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NGVD 29
Geoid Datum:		
Northing (M) 84,196.6181		Latitude 35 5 32.0255952
Easting (M) 392,224.1300		Longitude 92 5 6.9991008
Elevation (M)* 91.160		Ellipsoid Height (M): 63.031
Northing (SFT) 276,235.0712		Geoid Height (M): -28.129
Easting (SFT) 1,286,821.9998		
Elevation (SFT)* 299.081		

Convergence Angle 0 2 58.6425091	Location Description
Scale Factor 0.999972565	<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA NEAR THE SMALL TOWN OF EL PASO, GO SOUTH ON HWY-5 FOR 2.01 KM. (1.25 MI.) TO THE STATION ON THE RIGHT. 16.10 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY, 11.65 METERS WEST OF THE CENTER OF HWY-5 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730003 1995" SET ON TOP OF AN IRON ROD 1.0 METER LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 0.9999856942	
Combined Adjust. Factor 0.9999582596	

SUPERCEDED CONTROL				
Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TELEPHONE JUNCTION BOX	196	24.95	81.9	730003A
MK # 2	NORTH END OF METAL DRAIN PIPE UNDER DRIVE	176	12.87	42.2	183 43 39.4131
MK # 3	22' (0.55 M) PINE TREE	323	24.95	81.9	183 46 38.0604

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 120009	ELEVATION BY 3-WIRE USING ARKANSAS GEODETIC SURVEY BENCH MARK "WNV 1940".
Ref Mon # 2 430001	
Ref Mon # 3 730001	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730003A	Date Monumented 12/4/1995	Monumented By AHTD	County WHITE	Route 5	Job Number: 001748
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Vertical Determined By:</td> <td colspan="3">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="3">NGVD 29</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="3"></td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>5</td> <td>14.9517276</td> </tr> <tr> <td>Longitude</td> <td>92</td> <td>5</td> <td>8.3524020</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td colspan="2">53.375</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td colspan="2">-28.123</td> <td></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality			Elevation Datum:	NGVD 29			Geoid Datum:				Latitude	35	5	14.9517276	Longitude	92	5	8.3524020	Ellipsoid Height (M):	53.375			Geoid Height (M):	-28.123		
Vertical Determined By:	LEVEL - Unkown Quality																													
Elevation Datum:	NGVD 29																													
Geoid Datum:																														
Latitude	35		5	14.9517276																										
Longitude	92		5	8.3524020																										
Ellipsoid Height (M):	53.375																													
Geoid Height (M):	-28.123																													
Horizontal Datum NAD 83 (1986)																														
Northing (M)	83,670.4921																													
Easting (M)	392,189.3950																													
Elevation (M)*	81.498																													
Northing (SFT)	274,508.9395																													
Easting (SFT)	1,286,708.0401																													
Elevation (SFT)*	267.381																													

Convergence Angle	0	2	59.4299939
Scale Factor	0.999973274		
Elevation Adjust. Factor	0.9999872105		
Combined Adjust. Factor	0.9999604848		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	270	1.35	4.4
MK # 2	NONE			
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>120009</td> </tr> <tr> <td>Ref Mon # 2</td> <td>430001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>730001</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	120009	Ref Mon # 2	430001	Ref Mon # 3	730001	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3-WIRE USING ARKANSAS GEODETIC SURVEY BENCH MARK "WNV 1940".</td> </tr> </table>	Comments	ELEVATION BY 3-WIRE USING ARKANSAS GEODETIC SURVEY BENCH MARK "WNV 1940".
Area Reference Monuments (used for Processing)											
Ref Mon # 1	120009										
Ref Mon # 2	430001										
Ref Mon # 3	730001										
Comments											
ELEVATION BY 3-WIRE USING ARKANSAS GEODETIC SURVEY BENCH MARK "WNV 1940".											

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730004	Date Monumented 12/5/1995	Monumented By AHTD	County WHITE	Route 5	Job Number: 001748, 012154
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	87,798.0126	
Easting (M)	391,292.6222	
Elevation (M)*	97.863	
Northing (SFT)	288,050.6463	
Easting (SFT)	1,283,765.8780	
Elevation (SFT)*	321.072	

Convergence Angle	0	3	20.1231925
Scale Factor	0.999967896		
Elevation Adjust. Factor	0.9999846423		
Combined Adjust. Factor	0.9999525388		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	7	28.8803964
Longitude	92	5	43.9073988
Ellipsoid Height:	69.688		
Grid Northing (Meters)	87,798.5261		
Grid Easting (Meters)	391,292.7870		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF EL PASO FIRE DE	19	9.12	29.9
MK # 2	SOUTHEAST CORNER OF EL PASO FIRE DEP	63	24.13	79.2
MK # 3	NORTHWEST END OF METAL DRAIN PIPE	133	17.67	58.0

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>120009</td> </tr> <tr> <td>Ref Mon # 2</td> <td>430001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>730001</td> </tr> </table>	Ref Mon # 1	120009	Ref Mon # 2	430001	Ref Mon # 3	730001	<table border="1" style="width: 100%; height: 150px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	120009							
Ref Mon # 2	430001							
Ref Mon # 3	730001							
Comments								

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid09

Latitude 35 7 28.8637284

Longitude 92 5 43.9138896

Ellipsoid Height (M): 70.391

Geoid Height (M): -27.416

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA AND NEAR THE SMALL TOWN OF EL PASO, GO NORTH ON HWY-5 FOR 1.85 KM. (1.15 ML.) TO THE EL PASO FIRE DEPARTMENT AND THE STATION ON THE RIGHT. 22.90 METERS NORTHWEST OF THE CENTER OF A GRAVEL DRIVEWAY, 11.28 METERS NORTHEAST OF THE CENTER OF HWY-5 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730004 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730004A	Date Monumented 12/4/1995	Monumented By AHTD	County WHITE	Route 5	Job Number: 001748, 012154
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	87,438.9137	
Easting (M)	391,489.7609	
Elevation (M)*	94.430	
Northing (SFT)	286,872.5027	
Easting (SFT)	1,284,412.6572	
Elevation (SFT)*	309.809	

Convergence Angle	0	3	15.5844959
Scale Factor	0.999968347		
Elevation Adjust. Factor	0.9999851811		
Combined Adjust. Factor	0.9999535285		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	7	17.2332912
Longitude	92	5	36.1076244
Ellipsoid Height:	66.260		
Grid Northing (Meters)	87,439.4141		
Grid Easting (Meters)	391,489.9250		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHAIN LINK FENCE CORNER POST	144	12.38	40.6
MK # 2	NORTH END OF A METAL DRAIN PIPE	153	15.32	50.3
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>120009</td> </tr> <tr> <td>Ref Mon # 2</td> <td>430001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>730001</td> </tr> </table>	Ref Mon # 1	120009	Ref Mon # 2	430001	Ref Mon # 3	730001	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	120009							
Ref Mon # 2	430001							
Ref Mon # 3	730001							
Comments								

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid09

Latitude 35 7 17.2170480

Longitude 92 5 36.1140900

Ellipsoid Height (M): 66.966

Geoid Height (M): -27.411

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA NEAR THE SMALL TOWN OF EL PASO, GO NORTH ON HWY-5 FOR 1.45 KM. (0.90 MI.) TO THE STATION ON THE RIGHT NEAR A BASEBALL FIELD. 19.45 METERS NORTHWEST OF A GRAVEL DRIVEWAY, 10.90 METERS NORTHEAST OF THE CENTER OF HWY-5 AND 0.94 METERS SOUTHWEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730004A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730005	Date Monumented 12/5/1995	Monumented By AHTD	County WHITE	Route 5	Job Number: 001748
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Vertical Determined By:</td> <td colspan="2">GPS - Unknown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>9 0.0436104</td> </tr> <tr> <td>Longitude</td> <td>92</td> <td>5 30.9461064</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>78.811</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.202</td> <td></td> </tr> </table>	Vertical Determined By:	GPS - Unknown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	35	9 0.0436104	Longitude	92	5 30.9461064	Ellipsoid Height (M):	78.811		Geoid Height (M):	-28.202	
Vertical Determined By:	GPS - Unknown Quality																						
Elevation Datum:	NAVD 88																						
Geoid Datum:																							
Latitude	35		9 0.0436104																				
Longitude	92	5 30.9461064																					
Ellipsoid Height (M):	78.811																						
Geoid Height (M):	-28.202																						
Horizontal Datum	NAD 83 (1986)																						
Northing (M)	90,607.5421																						
Easting (M)	391,623.5700																						
Elevation (M)*	107.013																						
Northing (SFT)	297,268.2444	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="3" style="text-align: center;">Location Description</td> </tr> <tr> <td colspan="3" style="padding: 5px;"> TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA NEAR THE SMALL TOWN OF EL PASO, GO NORTH ON HWY-5 FOR 5.31 KM. (3.30 MI.) TO THE STATION ON THE RIGHT JUST NORTHWEST OF A CHURCH OF CHRIST. 30.20 METERS NORTH OF A GRAVEL DRIVEWAY, 14.10 METERS EAST OF THE CENTER OF HWY-5 AND 1.32 METERS WEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730005 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. </td> </tr> </table>	Location Description			TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA NEAR THE SMALL TOWN OF EL PASO, GO NORTH ON HWY-5 FOR 5.31 KM. (3.30 MI.) TO THE STATION ON THE RIGHT JUST NORTHWEST OF A CHURCH OF CHRIST. 30.20 METERS NORTH OF A GRAVEL DRIVEWAY, 14.10 METERS EAST OF THE CENTER OF HWY-5 AND 1.32 METERS WEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730005 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.																	
Location Description																							
TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA NEAR THE SMALL TOWN OF EL PASO, GO NORTH ON HWY-5 FOR 5.31 KM. (3.30 MI.) TO THE STATION ON THE RIGHT JUST NORTHWEST OF A CHURCH OF CHRIST. 30.20 METERS NORTH OF A GRAVEL DRIVEWAY, 14.10 METERS EAST OF THE CENTER OF HWY-5 AND 1.32 METERS WEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730005 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.																							
Easting (SFT)	1,284,851.6626																						
Elevation (SFT)*	351.092																						
Convergence Angle	0 3 12.5772507																						
Scale Factor	0.999964473																						
Elevation Adjust. Factor	0.9999832065	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Combined Adjust. Factor</td> <td>0.9999476800</td> </tr> </table>	Combined Adjust. Factor	0.9999476800																			
Combined Adjust. Factor	0.9999476800																						
Combined Adjust. Factor	0.9999476800																						

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks												
Description			Azimuth	Distance		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">AZ Mark Station</td> <td>730005A</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>169 00 37.9285</td> </tr> <tr> <td>Grid Azimuth</td> <td>169 03 50.4948</td> </tr> </table>	AZ Mark Station	730005A	Geodetic Azimuth	169 00 37.9285	Grid Azimuth	169 03 50.4948
AZ Mark Station	730005A											
Geodetic Azimuth	169 00 37.9285											
Grid Azimuth	169 03 50.4948											
MK # 1	WOODEN FENCE POST	153	Meters	Feet								
MK # 2	NORTH END OF A METAL DRAIN PIPE	176	10.50	34.4								
MK # 3	NONE		25.95	85.1								

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</td> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>120009</td> </tr> <tr> <td>Ref Mon # 2</td> <td>430001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>730001</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	120009	Ref Mon # 2	430001	Ref Mon # 3	730001	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Comments</td> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	120009										
Ref Mon # 2	430001										
Ref Mon # 3	730001										
Comments											

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730005A	Date Monumented 12/5/1995	Monumented By AHTD	County WHITE	Route 5	Job Number: 001748
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Vertical Determined By:</td> <td colspan="2">GPS - Unknown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>8 45.0328560</td> </tr> <tr> <td>Longitude</td> <td>92</td> <td>5 27.3972624</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>71.400</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.197</td> <td></td> </tr> </table>	Vertical Determined By:	GPS - Unknown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	35	8 45.0328560	Longitude	92	5 27.3972624	Ellipsoid Height (M):	71.400		Geoid Height (M):	-28.197	
Vertical Determined By:	GPS - Unknown Quality																						
Elevation Datum:	NAVD 88																						
Geoid Datum:																							
Latitude	35		8 45.0328560																				
Longitude	92		5 27.3972624																				
Ellipsoid Height (M):	71.400																						
Geoid Height (M):	-28.197																						
Horizontal Datum NAD 83 (1986)																							
Northing (M)	90,144.8801																						
Easting (M)	391,712.9660																						
Elevation (M)*	99.597																						
Northing (SFT)	295,750.3275																						
Easting (SFT)	1,285,144.9560																						
Elevation (SFT)*	326.761																						

Convergence Angle	0	3	10.5121815
Scale Factor	0.999965024		
Elevation Adjust. Factor	0.9999843702		
Combined Adjust. Factor	0.9999493948		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks											
Description		Azimuth	Distance		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">AZ Mark Station</td> <td>730005</td> </tr> <tr> <td>Geodetic Azimuth</td> <td>349 00 39.9716</td> </tr> <tr> <td>Grid Azimuth</td> <td>349 03 50.4948</td> </tr> </table>	AZ Mark Station	730005	Geodetic Azimuth	349 00 39.9716	Grid Azimuth	349 03 50.4948
AZ Mark Station	730005										
Geodetic Azimuth	349 00 39.9716										
Grid Azimuth	349 03 50.4948										
MK #			Meters	Feet							
MK # 1	WOODEN FENCE POST	178	6.30	20.7							
MK # 2	NONE										
MK # 3	NONE										

Area Reference Monuments (used for Processing)	Comments						
<table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>120009</td> </tr> <tr> <td>Ref Mon # 2</td> <td>430001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>730001</td> </tr> </table>	Ref Mon # 1	120009	Ref Mon # 2	430001	Ref Mon # 3	730001	
Ref Mon # 1	120009						
Ref Mon # 2	430001						
Ref Mon # 3	730001						

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730006	Date Monumented 12/5/1995	Monumented By AHTD	County WHITE	Route 5	Job Number: 001748
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Vertical Determined By:</td> <td colspan="2">GPS - Unknown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>11 30.5943756</td> </tr> <tr> <td>Longitude</td> <td>92</td> <td>4 30.2763684</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>98.331</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.236</td> <td></td> </tr> </table>	Vertical Determined By:	GPS - Unknown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	35	11 30.5943756	Longitude	92	4 30.2763684	Ellipsoid Height (M):	98.331		Geoid Height (M):	-28.236	
Vertical Determined By:	GPS - Unknown Quality																						
Elevation Datum:	NAVD 88																						
Geoid Datum:																							
Latitude	35		11 30.5943756																				
Longitude	92		4 30.2763684																				
Ellipsoid Height (M):	98.331																						
Geoid Height (M):	-28.236																						
Horizontal Datum NAD 83 (1986)																							
Northing (M)	95,245.6891																						
Easting (M)	393,162.6920																						
Elevation (M)*	126.567																						
Northing (SFT)	312,485.2317																						
Easting (SFT)	1,289,901.2653																						
Elevation (SFT)*	415.245																						

Convergence Angle	0	2	37.2735831
Scale Factor	0.999959245		
Elevation Adjust. Factor	0.9999801379		
Combined Adjust. Factor	0.9999393837		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER FENCE POST	8	13.33	43.7
MK # 2	NONE			
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>120009</td> </tr> <tr> <td>Ref Mon # 2</td> <td>430001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>730001</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	120009	Ref Mon # 2	430001	Ref Mon # 3	730001	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	120009										
Ref Mon # 2	430001										
Ref Mon # 3	730001										
Comments											

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730006A	Date Monumented 12/5/1995	Monumented By AHTD	County WHITE	Route 5	Job Number: 001748
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	95,882.6281	
Easting (M)	393,143.8130	
Elevation (M)*	133.994	
Northing (SFT)	314,574.9224	
Easting (SFT)	1,289,839.3265	
Elevation (SFT)*	439.612	

Convergence Angle	0	2	37.7190460
Scale Factor	0.999958569		
Elevation Adjust. Factor	0.9999789724		
Combined Adjust. Factor	0.9999375423		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	269	1.75	5.7
MK # 2	CULVERT	4	33.30	109.3
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>120009</td> </tr> <tr> <td>Ref Mon # 2</td> <td>430001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>730001</td> </tr> </table>	Ref Mon # 1	120009	Ref Mon # 2	430001	Ref Mon # 3	730001	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	120009							
Ref Mon # 2	430001							
Ref Mon # 3	730001							
Comments								

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 11 51.2626308

Longitude 92 4 31.0419012

Ellipsoid Height (M): 105.753

Geoid Height (M): -28.241

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA AND NEAR THE SMALL TOWN OF EL PASO, GO NORTH ON HWY-5 FOR 11.35 KM. (7.05 MI.) TO THE STATION ON THE LEFT. 36.8 METERS SOUTH OF A FIELD ENTRANCE, 17.53 METERS WEST OF THE CENTER OF HWY-5 AND 1.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730006A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730007	Date Monumented 12/5/1995	Monumented By AHTD	County WHITE	Route 5	Job Number: 001748,050067
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	98,519.2421	
Easting (M)	393,519.6270	
Elevation (M)*	183.113	
Northing (SFT)	323,225.2135	
Easting (SFT)	1,291,072.3096	
Elevation (SFT)*	600.763	

Convergence Angle	0	2	29.1177087
Scale Factor	0.999955873		
Elevation Adjust. Factor	0.9999712644		
Combined Adjust. Factor	0.9999271387		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	282	1.43	4.7
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	120009
Ref Mon # 2	430001
Ref Mon # 3	730001

Comments

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 13 16.8299904
Longitude	92 4 16.2604092
Ellipsoid Height (M):	154.855
Geoid Height (M):	-28.258

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA, NEAR THE SMALL TOWN OF EL PASO, GO NORTH ON HWY-5 FOR 14.09 KM. (8.75 MI.) TO THE STATION ON THE LEFT. 15.4 METERS WEST OF THE CENTER OF HWY-5 AND 1.16 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730007 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730007A	Date Monumented 12/5/1995	Monumented By AHTD	County WHITE	Route 5	Job Number: 001748
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	99,227.4451	
Easting (M)	393,636.3670	
Elevation (M)*	196.525	
Northing (SFT)	325,548.7095	
Easting (SFT)	1,291,455.3141	
Elevation (SFT)*	644.766	

Convergence Angle	0	2	26.4430147
Scale Factor	0.999955178		
Elevation Adjust. Factor	0.9999691598		
Combined Adjust. Factor	0.9999243392		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	20	6.75	22.1
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 120009	
Ref Mon # 2 430001	
Ref Mon # 3 730001	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 13 39.8139168
Longitude	92 4 11.6639184
Ellipsoid Height (M):	168.263
Geoid Height (M):	-28.262

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA AND NEAR THE SMALL TOWN OF EL PASO, GO NORTH ON HWY-5 FOR 14.81 KM. (9.20 MI.) TO THE STATION ON THE RIGHT. 11.0 METERS EAST OF THE CENTER OF HWY-5 AND 0.84 METERS WEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730007A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730008	Date Monumented 12/5/1995	Monumented By AHTD	County WHITE	Route 5	Job Number: 001748,050067
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 110,747.0291		Latitude 35 19 53.5984464
Easting (M) 392,632.2320		Longitude 92 4 51.7495980
Elevation (M)* 193.128		Ellipsoid Height (M): 164.816
Northing (SFT) 363,342.5446		Geoid Height (M): -28.312
Easting (SFT) 1,288,160.9145		
Elevation (SFT)* 633.621		

Convergence Angle 0 2 49.7688367	Location Description
Scale Factor 0.999945606	<p>THE STATION IS LOCATED IN ROSE BUD NEAR THE JUNCTION OF HWY-5 AND HWY-36. 62.4 METERS WEST OF THE EXTENDED CENTER OF HWY-5 NORTH, 33.5 METERS EAST OF THE CENTER OF HWY-5 SOUTH, 10.3 METERS SOUTH OF THE CENTER OF HWY-5 & 36 AND 0.59 METERS NORTH OF A WITNESS POST. JUST NORTH OF A GRAVEL LOT THAT IS USED FOR A CAR SALES LOT AT THIS TIME. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730008 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 0.9999696928	
Combined Adjust. Factor 0.9999153005	

SUPERCEDED CONTROL				
Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	CHAIN LINK FENCE CORNER POST	95	6.80	22.3	730008A
MK # 2	SOUTH END OF A CONCRETE HEADWALL	73	15.03	49.3	89 37 38.6685
MK # 3	22" (0.56 M) SYCAMORE TREE	167	13.87	45.5	89 40 28.3819

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 120009	<p>ELEVATION ON THIS STATION WAS ARRIVED AT BY USING USC&GS BENCH MARK "X 206 1962" WHICH IS ABOUT 84 FEET NORTHEAST OF THE POST OFFICE IN ROSE BUD.</p>
Ref Mon # 2 430001	
Ref Mon # 3 730001	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730008A	Date Monumented 12/5/1995	Monumented By AHTD	County WHITE	Route 36	Job Number: 001748
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1986)				
Northing (M)	110,751.4551				
Easting (M)	393,411.3640				
Elevation (M)*	200.629				
Northing (SFT)	363,357.0656				
Easting (SFT)	1,290,717.1167				
Elevation (SFT)*	658.230				

Convergence Angle	0	2	31.8160827
Scale Factor	0.999945603		
Elevation Adjust. Factor	0.9999685158		
Combined Adjust. Factor	0.9999141205		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER POST	290	32.15	105.5
MK # 2	WATER VALVE COVER	87	17.97	59.0
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 120009	ELEVATION ON THIS STATION WAS ARRIVED AT BY USING USC&GS BENCH MARK "X 206 1962" WHICH IS ABOUT 84 FEET NORTHEAST OF THE POST OFFICE IN ROSE BUD.
Ref Mon # 2 430001	
Ref Mon # 3 730001	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730009-96	Date Monumented 1/15/1997	Monumented By AHTD	County WHITE	Route 16	Job Number: 050045
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,954.2901	
Easting (M)	423,208.5610	
Elevation (M)*	69.792	
Northing (SFT)	337,775.8668	
Easting (SFT)	1,388,476.7539	
Elevation (SFT)*	228.976	

Convergence Angle	0	8	54.3077407
Scale Factor	0.999951749		
Elevation Adjust. Factor	0.9999890475		
Combined Adjust. Factor	0.9999407970		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	106	18.87	61.9
MK # 2	TELEPHONE JUNCTION BOX	256	33.12	108.7
MK # 3	COMBINATION POLE	3	27.60	90.5

Area Reference Monuments (used for Processing) Ref Mon # 1 SEARPORT Ref Mon # 2 HEBEPORT Ref Mon # 3 NEWSPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY THREE WIRE LEVELING FROM TBM-907 ELEVATION = 71.574 METERS NAVD88 DATUM ON JOB 050032. THIS ELEVATION WAS RUN BY THREE WIRE LEVELING FROM NGS PT "H 8 1931" CREW S5113, ELEVATION = 80.529 METERS NAVD88 DATUM.</td> </tr> </table>	Comments	ELEVATION BY THREE WIRE LEVELING FROM TBM-907 ELEVATION = 71.574 METERS NAVD88 DATUM ON JOB 050032. THIS ELEVATION WAS RUN BY THREE WIRE LEVELING FROM NGS PT "H 8 1931" CREW S5113, ELEVATION = 80.529 METERS NAVD88 DATUM.
Comments			
ELEVATION BY THREE WIRE LEVELING FROM TBM-907 ELEVATION = 71.574 METERS NAVD88 DATUM ON JOB 050032. THIS ELEVATION WAS RUN BY THREE WIRE LEVELING FROM NGS PT "H 8 1931" CREW S5113, ELEVATION = 80.529 METERS NAVD88 DATUM.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 15 39.8479212
Longitude	91 44 41.7863184
Ellipsoid Height (M):	42.536
Geoid Height (M):	-27.256

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67B, STATE HIGHWAY 36 (MAIN STREET) AND STATE HIGHWAY 16 (WEST RACE STREET), LOCATED IN DOWNTOWN SEARCY, GO WEST ON STATE HIGHWAY 16 (WEST RACE STREET) FOR 0.80 KM (0.50 MI) TO THE JUNCTION OF NORTH MAPLE STREET, GO RIGHT AND NORTH ON STATE HIGHWAY 16 (NORTH MAPLE STREET) FOR 1.13 KM (0.70 MI) TO THE JUNCTION OF HOLMES DRIVE AND THE STATION ON THE LEFT. THE STATION IS 16.136 METERS NORTH OF THE CENTER OF HOLMES DRIVE, 15.506 METERS SOUTH OF THE CENTER OF A GRAVEL ENTRANCE TO "DAD'S AUTO SALES", 8.764 METERS WEST OF THE CENTER OF STATE HIGHWAY 16 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "730009 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	730009A
Geodetic Azimuth	180 30 22.14036
Grid Azimuth	180 21 27.83305

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730009A-96	Date Monumented 1/15/1997	Monumented By AHTD	County WHITE	Route 16	Job Number: 050045
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,423.8321	
Easting (M)	423,205.2490	
Elevation (M)*	68.789	
Northing (SFT)	336,035.5225	
Easting (SFT)	1,388,465.8878	
Elevation (SFT)*	225.685	

Convergence Angle	0	8	54.1998650
Scale Factor	0.999952221		
Elevation Adjust. Factor	0.9999892049		
Combined Adjust. Factor	0.9999414264		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	217	32.39	106.3
MK # 2	TELEPHONE JUNCTION BOX	294	22.07	72.4
MK # 3	COMBINATION POLE	202	18.88	62.0

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>SEARPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>HEBEPOR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NEWSPOR</td> </tr> </table>	Ref Mon # 1	SEARPORT	Ref Mon # 2	HEBEPOR	Ref Mon # 3	NEWSPOR	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	SEARPORT						
Ref Mon # 2	HEBEPOR						
Ref Mon # 3	NEWSPOR						

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 15 22.6349100
Longitude	91 44 41.9717040
Ellipsoid Height (M):	41.534
Geoid Height (M):	-27.255

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67B, STATE HIGHWAY 36 (MAIN STREET) AND STATE HIGHWAY 16 (WEST RACE STREET), LOCATED IN DOWNTOWN SEARCY, GO WEST ON STATE HIGHWAY 16 (WEST RACE STREET) FOR 0.80 KM (0.50 MI) TO THE JUNCTION OF NORTH MAPLE STREET, GO RIGHT AND NORTH ON STATE HIGHWAY 16 (NORTH MAPLE STREET) FOR 0.64 KM (0.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.60 METERS EAST OF THE CENTER OF STATE HIGHWAY 16, 11.351 METERS NORTH OF A GRAVEL DRIVE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730009A 1998" SET ON TOP OF AN IRON ROD 0.31 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	730009
Geodetic Azimuth	0 30 22.03334
Grid Azimuth	0 21 27.83305

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730010	Date Monumented 3/3/1999	Monumented By AHTD	County WHITE	Route 64	Job Number: 001848
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	84,742.3631	
Easting (M)	399,878.5680	
Elevation (M)*	77.917	
Northing (SFT)	278,025.5696	
Easting (SFT)	1,311,934.9352	
Elevation (SFT)*	255.633	

Convergence Angle	0	0	2.7899435
Scale Factor	0.999971833		
Elevation Adjust. Factor	0.9999877724		
Combined Adjust. Factor	0.9999596058		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WOODEN BRACE FENCE POST	251	7.10	23.3	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 SEARPORT Ref Mon # 2 AHTD LR1 Ref Mon # 3 EARNHART HALE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>LEVELS TO THE STATION WAS RUN BY CREW S5103</td> </tr> </table>	Comments	LEVELS TO THE STATION WAS RUN BY CREW S5103
Comments			
LEVELS TO THE STATION WAS RUN BY CREW S5103			

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 5 49.8443712
Longitude	92 0 4.7945484
Ellipsoid Height (M):	50.611
Geoid Height (M):	-27.306

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 5, LOCATED ABOUT 1.61 KM (1.00 MI) SOUTH OF EL PASO, GO EAST ON U.S. HIGHWAY 64 FOR 9.85 KM (6.12 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.32 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 2.32 METERS NORTH OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "730010 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730010A	Date Monumented 3/3/1999	Monumented By AHTD	County WHITE	Route 64	Job Number: 001848
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	84,789.0821	
Easting (M)	399,381.2110	
Elevation (M)*	76.510	
Northing (SFT)	278,178.8469	
Easting (SFT)	1,310,303.1898	
Elevation (SFT)*	251.017	

Convergence Angle	0	0	14.2169749
Scale Factor	0.999971771		
Elevation Adjust. Factor	0.9999879932		
Combined Adjust. Factor	0.9999597646		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CORNER FENCE POST	82	23.50	77.1	
MK # 2	EAST END OF CMP	255	25.00	82.0	
MK # 3	POWER POLE	273	21.60	70.9	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEARPORT	LEVELS TO THE STATION WAS RUN BY CREW S5103
Ref Mon # 2 AHTD LR1	
Ref Mon # 3 EARNHART HALE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730012	Date Monumented 10/21/1999	Monumented By AHTD	County WHITE	Route 36	Job Number: 050044
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	100,726.4011	
Easting (M)	425,819.0790	
Elevation (M)*	70.056	
Northing (SFT)	330,466.5343	
Easting (SFT)	1,397,041.4284	
Elevation (SFT)*	229.842	

Convergence Angle	0	9	54.2590284
Scale Factor	0.999953781		
Elevation Adjust. Factor	0.9999890061		
Combined Adjust. Factor	0.9999427876		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	AHTD BENCH MARK DISK	103	13.70	44.9
MK # 2	PUNCH IN TOP OF METAL GUARD RAIL POS	126	4.00	13.1
MK # 3	PUNCH IN TOP OF METAL GUARD RAIL POS	229	3.20	10.5

Area Reference Monuments (used for Processing) Ref Mon # 1 SEARPORT Ref Mon # 2 730009 Ref Mon # 3 730011	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 14 27.3214644
Longitude	91 42 58.7593764
Ellipsoid Height (M):	42.809
Geoid Height (M):	-27.247

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67, U.S. HIGHWAY 167 AND STATE HIGHWAY 36, LOCATED ON THE EAST SIDE OF SEARCY, GO WEST ON STATE HIGHWAY 36 FOR 1.45 KM (0.90 MI) TO THE WEST END OF A BRIDGE AND THE STATION ON THE RIGHT. THE STATION IS 14.95 METERS NORTH OF THE CENTER OF STATE HIGHWAY 36 AND 11.60 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730012 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 695.220 METERS. ELEVATION ON THIS POINT WAS ESTABLISHED BY THREE WIRE LEVELING BY CREW S5102 FROM AN AHTD BENCH MARK DISK SET IN BRIDGE # 6601.</p>

AZ Mark Station	720012A
Geodetic Azimuth	102 53 44.70257
Grid Azimuth	102 43 50.37801

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730012A	Date Monumented 10/21/1999	Monumented By AHTD	County WHITE	Route 36	Job Number: 050044
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	100,573.2051	
Easting (M)	426,497.1690	
Elevation (M)*	68.451	
Northing (SFT)	329,963.9237	
Easting (SFT)	1,399,266.1286	
Elevation (SFT)*	224.577	

Convergence Angle	0	10	9.8556188
Scale Factor	0.999953927		
Elevation Adjust. Factor	0.9999892579		
Combined Adjust. Factor	0.9999431854		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS PIPELINE WARNING SIGN	302	5.04	16.5
MK # 2	BURIED CABLE WARNING SIGN	93	3.97	13.0
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEARPORT	
Ref Mon # 2 730009	
Ref Mon # 3 730011	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 14 22.2860472
Longitude	91 42 31.9564656
Ellipsoid Height (M):	41.244
Geoid Height (M):	-27.246

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67, U.S. HIGHWAY 167 AND STATE HIGHWAY 36, LOCATED ON THE EAST SIDE OF SEARCY, GO WEST ON STATE HIGHWAY 36 FOR 0.75 KM (0.47 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.30 METERS NORTH OF THE CENTER OF STATE HIGHWAY 36 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730012A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 695.220 METERS.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730013	Date Monumented 6/28/2000	Monumented By AHTD	County WHITE	Route 385	Job Number: 050010
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	99,572.6805	
Easting (M)	430,059.7758	
Elevation (M)*	68.097	
Northing (SFT)	326,681.3693	
Easting (SFT)	1,410,954.4478	
Elevation (SFT)*	223.415	

Convergence Angle	0	11	31.7743337
Scale Factor	0.999954891		
Elevation Adjust. Factor	0.9999893135		
Combined Adjust. Factor	0.9999442050		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 385, STATE HIGHWAY 36 AND NORTHEAST FRIST STREET, LOCATED IN KENSETT, GO SOUTHWEST ON STATE HIGHWAY 385 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.35 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 385, 6.07 METERS SOUTHEAST OF SOUTHEAST RAIL AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730013 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 559.066 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USG&GS BENCH MARK M 8.</p>			

Location Reference Marks						
Description		Azimuth	Distance			
			Meters	Feet		
MK # 1	NONE				AZ Mark Station	730013A
MK # 2	NONE				Geodetic Azimuth	46 49 31.465718
MK # 3	NONE				Grid Azimuth	46 37 59.650936

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HEBEPORT	ELEVATION BASED ON THREE WIRE LEVELS FROM NGS PT M 8ELEV. TBM SQ NW CORNER BRIDGE OVER BLACK CREEK = 213.838 FEET
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 SEARPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730013A	Date Monumented 6/28/2000	Monumented By AHTD	County WHITE	Route 36	Job Number: 050010
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Vertical Determined By:</td> <td colspan="2">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>14 1.8664116</td> </tr> <tr> <td>Longitude</td> <td>91</td> <td>39 55.0540728</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>41.515</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-27.248</td> <td></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	35	14 1.8664116	Longitude	91	39 55.0540728	Ellipsoid Height (M):	41.515		Geoid Height (M):	-27.248	
Vertical Determined By:	LEVEL - Unkown Quality																						
Elevation Datum:	NAVD 88																						
Geoid Datum:																							
Latitude	35		14 1.8664116																				
Longitude	91		39 55.0540728																				
Ellipsoid Height (M):	41.515																						
Geoid Height (M):	-27.248																						
Horizontal Datum NAD 83 (1997)																							
Northing (M)	99,956.5512																						
Easting (M)	430,466.1797																						
Elevation (M)*	68.767																						
Northing (SFT)	327,940.7851																						
Easting (SFT)	1,412,287.7912																						
Elevation (SFT)*	225.613																						

Convergence Angle	0	11	41.1569844
Scale Factor	0.999954523		
Elevation Adjust. Factor	0.9999892083		
Combined Adjust. Factor	0.9999437318		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 385, STATE HIGHWAY 36 AND NORTHEAST FRIST STREET, LOCATED IN KENSETT, GO NORTHEAST ON NORTHEAST FRIST STREET FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 23.20 METERS NORTHEAST OF THE CENTER OF EAST WEST POINT STREET, 11.40 METERS NORTHWEST OF NORTHEAST FRIST STREET, 4.98 METERS SOUTHEAST OF SOUTHEAST RAIL AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730013A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 559.066 METERS,

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 HEBEPORT</p> <p>Ref Mon # 2 NEWSPOINT</p> <p>Ref Mon # 3 SEARPOINT</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BASED ON THREE WIRE LEVELS FROM NGS PT M 8</td> </tr> </table>	Comments	ELEVATION BASED ON THREE WIRE LEVELS FROM NGS PT M 8
Comments			
ELEVATION BASED ON THREE WIRE LEVELS FROM NGS PT M 8			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730014	Date Monumented 11/14/2000	Monumented By AHTD	County WHITE	Route 36	Job Number: 50100, 050189, 050198, 05028
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	101,375.9894 0.0020
Easting (M)	420,323.1923 0.0020
Elevation (M)*	90.035

Northing (SFT)	332,597.7252	
Easting (SFT)	1,379,010.3401	
Elevation (SFT)*	295.390	

Convergence Angle	0	7	47.7985892
Scale Factor	0.999953165		
Elevation Adjust. Factor	0.9999858708		
Combined Adjust. Factor	0.9999390364		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude	35	14	48.8597136
Longitude	91	46	36.0838488
Ellipsoid Height:	62.784		
Grid Northing (Meters)	101,375.9904		
Grid Easting (Meters)	420,323.1714		

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 36 AND U.S. HIGHWAY 67B, LOCATED IN SEARCY GO WEST ON STATE HIGHWAY 36 FOR 3.78 KM (2.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.00 METERS WEST OF THE CENTER OF QUARTER HORSE LANE, 5.90 METERS SOUTH OF THE CENTER OF THE EAST BOUND LANE OF STATE HIGHWAY 36 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730014 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 556.764 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USC&GS BENCH MARK "G 8".</p>

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	WATER METER COVER		113	2.75	9.0
MK # 2	COMBINATION POLE		235	8.70	28.5
MK # 3	CENTER OF A MAN HOLE COVER		261	16.00	52.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HEBEPORT Ref Mon # 2 SEARPORT Ref Mon # 3 NEWSPORT	3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206. ELEV WAS UPDATED 10/13/14 DURING JOB 050280 FROM 295.424 TO 295.3897. NEW ELEV WAS RAN FROM GPS 730014A AND NGS BM H 206, J 206, K 206, P 206, Q 206.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730014A	Date Monumented 11/14/2000	Monumented By AHTD	County WHITE	Route 36	Job Number: 050100, 050189, 050280
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	101,451.1816	
Easting (M)	420,874.8036	
Elevation (M)*	88.026	
Northing (SFT)	332,844.4183	
Easting (SFT)	1,380,820.0848	
Elevation (SFT)*	288.798	

Convergence Angle	0	8	0.4995453
Scale Factor	0.999953097		
Elevation Adjust. Factor	0.9999861861		
Combined Adjust. Factor	0.9999392837		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FLAG POLE	47	10.10	33.1
MK # 2	SOUTH END OF BRICH SIGN TO CHURCH	90	7.38	24.2
MK # 3	EAST END OF CMP	246	6.00	19.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HEBEPOR	3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.
Ref Mon # 2 SEARPOR	
Ref Mon # 3 NEWSPOR	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	35 14 51.2585160
Longitude	91 46 14.2562892
Ellipsoid Height (M):	60.767
Geoid Height (M):	-27.259

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 36 AND U.S. HIGHWAY 67B, LOCATED IN SEARCY GO WEST ON STATE HIGHWAY 36 FOR 3.25 KM (2.02 MI) TO THE BETHEL MISSIONARY BAPTIST CHURCH AND THE STATION ON THE RIGHT. THE STATION IS 10.20 METERS EAST OF THE CENTER OF THE WEST ENTRANCE TO THE CHURCH, 8.80 METERS NORTH OF THE WEST BOUND LANE OF STATE HIGHWAY 36 AND 1.83 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730014A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 556.764 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USC&GS BENCH MARK "G 8".</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730015	Date Monumented 11/15/2000	Monumented By AHTD	County WHITE	Route 67	Job Number: 0087,012154,050263Mobile L
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	81,783.4042	
Easting (M)	407,865.9965	
Elevation (M)*	73.930	
Northing (SFT)	268,317.7186	
Easting (SFT)	1,338,140.3569	
Elevation (SFT)*	242.552	

Convergence Angle	0	3	0.6645105
Scale Factor	0.999975872		
Elevation Adjust. Factor	0.9999883981		
Combined Adjust. Factor	0.9999642704		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	4	13.7137044
Longitude	91	54	49.5269244
Ellipsoid Height:	46.740		
Grid Northing (Meters)	81,783.4016		
Grid Easting (Meters)	407,865.9748		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHISLED "X" IN CONCRETE DROP INLET	49	4.50	14.8
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>SEARPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD LR 1</td> </tr> <tr> <td>Ref Mon # 3</td> <td>730010</td> </tr> </table>	Ref Mon # 1	SEARPORT	Ref Mon # 2	AHTD LR 1	Ref Mon # 3	730010	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3WIRE FROM NGS PT 18 BLS</td> </tr> </table>	Comments	ELEVATION BY 3WIRE FROM NGS PT 18 BLS
Ref Mon # 1	SEARPORT								
Ref Mon # 2	AHTD LR 1								
Ref Mon # 3	730010								
Comments									
ELEVATION BY 3WIRE FROM NGS PT 18 BLS									

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND U.S. HIGHWAY 67, LOCATED ON THE WEST SIDE OF BEEBE, GO NORTHEAST ON U.S. HIGHWAY 67 AND U.S. HIGHWAY 64 FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 13.00 METERS SOUTHEAST OF THE SOUTH BOUND LANE, 12.75 METERS NORTHWEST OF THE NORTH BOUND LANE AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730015 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 643.888 METERS.			
NOTE: 730015 AND 730015A CAN BE USED FOR JOB # 050096			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730015A	Date Monumented 11/15/2000	Monumented By AHTD	County WHITE	Route 67	Job Number: 050096, 050087
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	82,186.7880	
Easting (M)	408,367.8139	
Elevation (M)*	75.679	
Northing (SFT)	269,641.1536	
Easting (SFT)	1,339,786.7361	
Elevation (SFT)*	248.289	

Convergence Angle	0	3	12.1987703
Scale Factor	0.999975310		
Elevation Adjust. Factor	0.9999881237		
Combined Adjust. Factor	0.9999634340		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHISLED "X" IN CONCRETE DROD INLET	338	2.20	7.2
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEARPORT	ELEVATION BY 3WIRE FROM NGS PT 18 BLS
Ref Mon # 2 AHTD LR 1	
Ref Mon # 3 730010	

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 4 26.7889548

Longitude 91 54 29.7043164

Ellipsoid Height (M): 48.478

Geoid Height (M): -27.224

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND U.S. HIGHWAY 67, LOCATED ON THE WEST SIDE OF BEEBE, GO NORTH ON U.S. HIGHWAY 67 AND U.S. HIGHWAY 64 FOR 0.89 KM (0.55 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 15.03 METERS SOUTHEAST OF THE CENTER OF THE SOUTH BOUND LANE, 10.84 METERS NORTHWEST OF THE NORTH BOUND LAND AND 1.35 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730015A 2000" SET ON TOP OF AN IRON ROD 0.82 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 643.888 METERS.

NOTE: 730015 AND 730015A CAN BE USED FOR JOB # 050096.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730016	Date Monumented 11/15/2000	Monumented By AHTD	County WHITE	Route 64	Job Number: 0087, 012154Mobie LiDAR-C
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	83,202.2532	
Easting (M)	403,391.2483	
Elevation (M)*	80.325	
Northing (SFT)	272,972.7257	
Easting (SFT)	1,323,459.4538	
Elevation (SFT)*	263.532	

Convergence Angle	0	1	17.9017835
Scale Factor	0.999973907		
Elevation Adjust. Factor	0.9999873946		
Combined Adjust. Factor	0.9999613019		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 64 AND U.S. HIGHWAY 67, LOCATED ON THE WEST SIDE OF BEEBE, GO WEST ON U.S. HIGHWAY 64 FOR 5.70 KM (3.54 MI) TO THE STATION ON THE LEFT. THE STATION IS 38.90 METERS SOUTH OF THE CENTER OF VERNON HARVEY ROAD, 26.65 METERS SOUTH-SOUTHWEST OF THE SOUTH END OF A CONCRETE HEADWALL, 13.30 METERS WEST OF THE CENTER OF U.S. HIGHWAY 64 AND 0.21 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730016 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 543.841 METERS.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					730016A
MK # 2	NONE					3 55 41.180738
MK # 3	NONE					3 54 23.273727

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEARPORT	<p>UPDATED ELEVATION IN MAY 2012. PREVIOUS ELEVATION WAS 263.6251'. ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.</p>
Ref Mon # 2 AHTD LR 1	
Ref Mon # 3 730010	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730016A	Date Monumented 11/15/2000	Monumented By AHTD	County WHITE	Route 64	Job Number: 0087, 012154Mobie LiDAR-C
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	83,744.8090
Easting (M)	403,428.2975
Elevation (M)*	79.605
Northing (SFT)	274,752.7609
Easting (SFT)	1,323,581.0060
Elevation (SFT)*	261.172

Convergence Angle	0	1	18.7576144
Scale Factor	0.999973170		
Elevation Adjust. Factor	0.9999875075		
Combined Adjust. Factor	0.9999606778		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	169	23.25	76.3
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEARPORT	UPDATED ELEVATION IN MAY 2012. PREVIOUS ELEVATION WAS 261.2268'. ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.
Ref Mon # 2 AHTD LR 1	
Ref Mon # 3 730010	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 09
Latitude	35 5 17.4523272
Longitude	91 57 44.6541804
Ellipsoid Height (M):	52.370
Geoid Height (M):	-27.268

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND U.S. HIGHWAY 67, LOCATED ON THE WEST SIDE OF BEEBE, GO WEST ON U.S. HIGHWAY 64 FOR 6.23 KM (3.87 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.90 METERS WEST OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730016A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 543.841 METERS.

AZ Mark Station	730016
Geodetic Azimuth	183 55 42.02613
Grid Azimuth	183 54 23.27373

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730017	Date Monumented 12/16/2002	Monumented By AHTD	County WHITE	Route 67	Job Number: 050114
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	93,716.6671	
Easting (M)	421,689.6460	
Elevation (M)*		
Northing (SFT)	307,468.7653	
Easting (SFT)	1,383,493.4469	
Elevation (SFT)*		

Convergence Angle	0	8	18.8250944
Scale Factor	0.999960936		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NE CORNER OF BRIDGE SOUTH BOUND LA NEC		4.20	13.8	
MK # 2	NW CORNER OF BRIDGE NORTH BOUND L ANEC		11.80	38.7	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: BUTLER	
Ref Mon # 2: 480016	
Ref Mon # 3: ROUCH	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730017A	Date Monumented 12/16/2002	Monumented By AHTD	County WHITE	Route 67	Job Number: 050114
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	93,176.2881	
Easting (M)	421,201.7970	
Elevation (M)*		
Northing (SFT)	305,695.8719	
Easting (SFT)	1,381,892.8957	
Elevation (SFT)*		

Convergence Angle	0	8	7.5760592
Scale Factor	0.999961537		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	EDGE OF CONCRETE ROAD	314	11.50	37.7	AZ Mark Station 730017
MK # 2	EDGE OF CONCRETE ROAD	134	6.80	22.3	Geodetic Azimuth 42 12 39
MK # 3	DROP INLET	310	19.80	65.0	Grid Azimuth 42 04 32

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER	
Ref Mon # 2 480016	
Ref Mon # 3 ROUCH	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730018	Date Monumented 11/10/2004	Monumented By AHTD	County WHITE	Route 36	Job Number: 050163
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 110,912.5991		Latitude 35 19 58.9053900
Easting (M) 390,483.3030		Longitude 92 6 16.8500124
Elevation (M)* 195.129		Ellipsoid Height (M): 167.643
		Geoid Height (M): -27.486

Northing (SFT) 363,885.7522		
Easting (SFT) 1,281,110.6366		
Elevation (SFT)* 640.186		

Convergence Angle 0 3 39.2886936		
Scale Factor 0.999945494		
Elevation Adjust. Factor 0.9999693788		
Combined Adjust. Factor 0.9999148745		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 36, WEST OF ROSE BUD, GO WEST ON HIGHWAY 36 FOR 0.40 MILES TO THE STATION ON THE RIGHT, 8 METERS NORTH OF CENTERLINE OF OLD SPRINGS ROAD, IN FRONT OF ST. MARY'S CHURCH, AND NORTHWEST 14.30 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730018 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	16" CMP	134	5.15	16.9	730018A
MK # 2	POWER POLE WITH LIGHT	64	15.80	51.8	56 32 55
MK # 3					56 36 34

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: LROC</p> <p>Ref Mon # 2: BUTLER</p> <p>Ref Mon # 3: EARNHART - HALE</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730018A	Date Monumented 11/10/2004	Monumented By AHTD	County WHITE	Route 36	Job Number: 050163
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	111,205.4731	
Easting (M)	390,927.6280	
Elevation (M)*	198.683	
Northing (SFT)	364,846.6230	
Easting (SFT)	1,282,568.3929	
Elevation (SFT)*	651.846	

Convergence Angle	0	3	29.0571731
Scale Factor	0.999945294		
Elevation Adjust. Factor	0.9999688211		
Combined Adjust. Factor	0.9999141168		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	AHTD CONCRETE RIGHT MARKER	69	16.85	55.3
MK # 2	WOOD FENCE POST	245	24.70	81.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LROC	
Ref Mon # 2 BUTLER	
Ref Mon # 3 EARNHART - HALE	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 20 8.4240528
Longitude	92 5 59.2670328
Ellipsoid Height (M):	171.203
Geoid Height (M):	-27.480

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 36, WEST OF ROSE BUD, GO WEST ON HIGHWAY 36 FOR 0.10 MILES TO THE STATION ON THE RIGHT, NORTHWEST 11.15 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST 1.15 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730018A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730019	Date Monumented 10/13/2004	Monumented By AHTD	County WHITE	Route 16	Job Number: 050162,050188,050279
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	105,678.8361	
Easting (M)	421,570.1670	
Elevation (M)*	122.959	
Northing (SFT)	346,714.6481	
Easting (SFT)	1,383,101.4562	
Elevation (SFT)*	403.408	

Convergence Angle	0	8	16.7398246
Scale Factor	0.999949435		
Elevation Adjust. Factor	0.9999807041		
Combined Adjust. Factor	0.9999301401		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fence corner post	122	17.30	56.8
MK # 2	Telephone riser	124	18.50	60.7
MK # 3	Power pole	312	25.85	84.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="Butler"/> Ref Mon # 2 <input type="text" value="LROC"/> Ref Mon # 3 <input type="text" value="480016"/>	3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.

Vertical Determined By: 3rd Order - 3 Wire Level	
Elevation Datum: NAVD 88	
Geoid Datum:	
Latitude	35 17 8.3918832
Longitude	91 45 46.3471920
Ellipsoid Height (M):	95.619
Geoid Height (M):	-27.267

Location Description
To reach the station from the junction of state highway 16 and state highway 310 west, north of Searcy, go east on highway 16 for 5.10 miles to the station on the left. 13.85 meters west of the center of the highway and 0.50 meters east of a witness post. The station mark is a standard 64mm cap stamped "730019 2004" set on top of an iron rod 1.22 meters long and driven flush with the ground.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730019A	Date Monumented 10/13/2004	Monumented By AHTD	County WHITE	Route 16	Job Number: 050162,050188,050279
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	106,106.5931	
Easting (M)	420,951.2490	
Elevation (M)*	118.742	
Northing (SFT)	348,118.0475	
Easting (SFT)	1,381,070.8894	
Elevation (SFT)*	389.572	

Convergence Angle	0	8	2.5098450
Scale Factor	0.999949088		
Elevation Adjust. Factor	0.9999813659		
Combined Adjust. Factor	0.9999304548		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Gate post		333	17.80	58.4
MK # 2	CMP		003	15.70	51.5
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="Butler"/>	3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.
Ref Mon # 2 <input type="text" value="LROC"/>	
Ref Mon # 3 <input type="text" value="480016"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730020	Date Monumented 5/24/2007	Monumented By AHTD	County White	Route 16	Job Number: 050188,050279
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	110,367.1211	
Easting (M)	419,228.6180	
Elevation (M)*	67.629	
Northing (SFT)	362,096.1298	
Easting (SFT)	1,375,419.2242	
Elevation (SFT)*	221.879	

Convergence Angle	0	7	23.0483284
Scale Factor	0.999945882		
Elevation Adjust. Factor	0.9999893869		
Combined Adjust. Factor	0.9999352695		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Six foot culvert	169	15.42	50.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Hebeport	3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.
Ref Mon # 2 Batesville CORS ARP	
Ref Mon # 3 730019, 730019A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730020A	Date Monumented 5/24/2007	Monumented By AHTD	County White	Route 16	Job Number: 050188,050279
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	110,908.2671	
Easting (M)	419,268.0330	
Elevation (M)*	71.249	
Northing (SFT)	363,871.5396	
Easting (SFT)	1,375,548.5383	
Elevation (SFT)*	233.756	

Convergence Angle	0	7	23.9833274
Scale Factor	0.999945507		
Elevation Adjust. Factor	0.9999888189		
Combined Adjust. Factor	0.9999343265		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	162	23.32	76.5
MK # 2	Fence corner	355	34.75	114.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730021	Date Monumented 5/24/2007	Monumented By AHTD	County WHITE	Route 16	Job Number: 050188,050279
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas North</td> <td>301</td> </tr> <tr> <td>Horizontal Datum</td> <td>NAD 83 (1997)</td> </tr> <tr> <td>Northing (M)</td> <td>116,235.5250</td> </tr> <tr> <td>Easting (M)</td> <td>417,550.1150</td> </tr> <tr> <td>Elevation (M)*</td> <td>97.087</td> </tr> <tr> <td>Northing (SFT)</td> <td>381,349.3849</td> </tr> <tr> <td>Easting (SFT)</td> <td>1,369,912.3356</td> </tr> <tr> <td>Elevation (SFT)*</td> <td>318.526</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Convergence Angle</td> <td>0</td> <td>6</td> <td>44.6391468</td> </tr> <tr> <td>Scale Factor</td> <td colspan="3">0.999942199</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td colspan="3">0.9999847641</td> </tr> <tr> <td>Combined Adjust. Factor</td> <td colspan="3">0.9999269640</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;">SUPERCEDED CONTROL</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas North	301	Horizontal Datum	NAD 83 (1997)	Northing (M)	116,235.5250	Easting (M)	417,550.1150	Elevation (M)*	97.087	Northing (SFT)	381,349.3849	Easting (SFT)	1,369,912.3356	Elevation (SFT)*	318.526	Convergence Angle	0	6	44.6391468	Scale Factor	0.999942199			Elevation Adjust. Factor	0.9999847641			Combined Adjust. Factor	0.9999269640			Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Vertical Determined By:</td> <td>3rd Order - 3 Wire Level</td> </tr> <tr> <td>Elevation Datum:</td> <td>NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td>35 22 51.2383620</td> </tr> <tr> <td>Longitude</td> <td>91 48 24.6232116</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>69.728</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-27.315</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center;">Location Description</p> <p>To reach the station from the junction of highways 110 and 16 in Pangburn, go east on hwy-16 for 3.75 miles to the station on the left 31.5 feet east of the center of hwy-16, 59.7 feet north of the center of a gravel drive and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "730021 2007" set on top of a 5/8 inch by 4 foot long rebar and is 0.30 feet below the surface.</p> </div>	Vertical Determined By:	3rd Order - 3 Wire Level	Elevation Datum:	NAVD 88	Geoid Datum:		Latitude	35 22 51.2383620	Longitude	91 48 24.6232116	Ellipsoid Height (M):	69.728	Geoid Height (M):	-27.315
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Geoid Height (M):	-27.315																																																												

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Water meter	261	20.08	65.9
MK # 2				
MK # 3				

AZ Mark Station	730021A
Geodetic Azimuth	182 04 45
Grid Azimuth	181 58 01

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 Hebeport</p> <p>Ref Mon # 2 Batesville CORS ARP</p> <p>Ref Mon # 3 730019, 730019A</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Comments</p> <p>3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.</p> </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730021A	Date Monumented 5/24/2007	Monumented By AHTD	County WHITE	Route 16	Job Number: 050188,050279
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	115,842.1761	
Easting (M)	417,536.6070	
Elevation (M)*	96.910	
Northing (SFT)	380,058.8728	
Easting (SFT)	1,369,868.0181	
Elevation (SFT)*	317.946	

Convergence Angle	0	6	44.3099286
Scale Factor	0.999942419		
Elevation Adjust. Factor	0.9999847919		
Combined Adjust. Factor	0.9999272118		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	End of a fence	110	4.26	14.0
MK # 2	Water meter	140	3.72	12.2
MK # 3	South gate post	289	18.60	61.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Hebeport	3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.
Ref Mon # 2 Batesville CORS ARP	
Ref Mon # 3 730019, 730019A	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 730022	Date Monumented 5/24/2007	Monumented By AHTD	County WHITE	Route 16	Job Number: 050188,050279
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	117,921.5311	
Easting (M)	416,675.5490	
Elevation (M)*	100.474	
Northing (SFT)	386,880.8900	
Easting (SFT)	1,367,043.0303	
Elevation (SFT)*	329.640	

Convergence Angle	0	6	24.5474911
Scale Factor	0.999941297		
Elevation Adjust. Factor	0.9999842325		
Combined Adjust. Factor	0.9999255305		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>To reach the station from the junction of highways 110 and 16 in Pangburn, go east on hwy-16 for 2.55 miles to the station on the left, 28.5 feet north of the center of hwy-16, 82.2 feet northwest of the center of a gravel drive and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "730022 2007" set on top of a 5/8 inch by 4 foot long rebar and is 0.30 feet below the surface.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	98	15.70	51.5
MK # 2	Light pole with guy	345	28.77	94.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Hebeport Ref Mon # 2 Batesville CORS ARP Ref Mon # 3 730019, 730019A	3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 730022A	Date Monumented 5/24/2007	Monumented By AHTD	County WHITE	Route 16	Job Number: 050188,050279
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	118,177.5073	0.0050	
Easting (M)	416,205.5739	0.0050	
Elevation (M)*	101.531		

Northing (SFT)	387,720.7052		
Easting (SFT)	1,365,501.1204		
Elevation (SFT)*	333.105		

Convergence Angle	0	6	13.7203205
Scale Factor	0.999941166		
Elevation Adjust. Factor	0.9999840668		
Combined Adjust. Factor	0.9999252337		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	23	54.3369588
Longitude	91	49	17.7579048
Ellipsoid Height:	74.180		
Grid Northing (Meters)	118,177.5021		
Grid Easting (Meters)	416,205.5650		

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Northeast corner of metal building	150	16.28	53.4	
MK # 2	Combination pole with guy	295	16.22	53.2	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Hebeport	3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.
Ref Mon # 2 Batesville CORS ARP	
Ref Mon # 3 730019, 730019A	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730023	Date Monumented 10/28/2009	Monumented By AHTD	County White	Route 267	Job Number: 050189
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	94,284.1711				
Easting (M)	417,009.9470				
Elevation (M)*	77.017				
Northing (SFT)	309,330.6514				
Easting (SFT)	1,368,140.1344				
Elevation (SFT)*	252.680				

Convergence Angle	0	6	31.2249972
Scale Factor	0.999960300		
Elevation Adjust. Factor	0.9999879137		
Combined Adjust. Factor	0.9999482141		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone box	52	20.00	65.6
MK # 2	Power pole	129	26.50	86.9
MK # 3	36 inch Oak tree	253	45.00	147.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	3 Wire Levels ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.
Ref Mon # 2 Hebeport, G 8	
Ref Mon # 3 ARLR	

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 10 58.9541340
Longitude	91 48 47.6755740
Ellipsoid Height (M):	49.760
Geoid Height (M):	-27.259

Location Description
<p>To reach the station from the junction of highways 267 and 13 on the southwest side of Searcy go south on hwy-267 for 0.15 miles to the station on the right. 33.0 feet north of the center of hwy-267, 171.0 feet east of the center of "Coppers Spring Road" and 89.4 feet west of the center of a driveway. The station mark is a 2 1/2 inch cap set on top of a 5/8 inch by 4 foot long rebar and stamped "730023 2009" and is 0.20 feet below the surface.</p>

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 730023A	Date Monumented 10/28/2009	Monumented By AHTD	County White	Route 267	Job Number: 050189
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	94,028.0711	
Easting (M)	416,563.9480	
Elevation (M)*	84.841	
Northing (SFT)	308,490.4299	
Easting (SFT)	1,366,676.8861	
Elevation (SFT)*	278.350	

Convergence Angle	0	6	20.9562641
Scale Factor	0.999960580		
Elevation Adjust. Factor	0.9999866858		
Combined Adjust. Factor	0.9999472663		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	235	24.00	78.7
MK # 2	Combination pole w/tel box	63	35.00	114.8
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 Hebeport G8 Ref Mon # 3 ARLR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3 Wire Levels ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.</td> </tr> </table>	Comments	3 Wire Levels ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.
Comments			
3 Wire Levels ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.			

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730024	Date Monumented 11/2/2009	Monumented By AHTD	County White	Route NA	Job Number: 050189
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	97,262.6821	
Easting (M)	418,048.7860	
Elevation (M)*	110.552	
Northing (SFT)	319,102.6495	
Easting (SFT)	1,371,548.3921	
Elevation (SFT)*	362.703	

Convergence Angle	0	6	55.2559162
Scale Factor	0.999957153		
Elevation Adjust. Factor	0.9999826511		
Combined Adjust. Factor	0.9999398048		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Water valve	55	20.36	66.8
MK # 2	Combination pole	357	34.44	113.0
MK # 3	Water meter	275	4.75	15.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARBT Ref Mon # 3 ARLR	3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.

Vertical Determined By: 3rd Order - Digital Level

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 12 35.5410000

Longitude 91 48 6.3781776

Ellipsoid Height (M): 83.291

Geoid Height (M): -27.261

Location Description

To reach the station from the us 167 and state highway 36 in Searcy go west on hwy-36 for 5.50 miles to "Honey Hill Road" on the right, turn right on Honey Hill road and go 2.30 miles to Honey Hill Loop on the left, turn left and go 0.70 miles on Honey Hill Loop to the station on the right at the top of the second hill. 21.6 feet west of the center of the road, 85.2 feet south of the center of a gravel drive and 43.7 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "730024 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 730024A	Date Monumented 11/2/2009	Monumented By AHTD	County White	Route NA	Job Number: 050189
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	97,600.2032	
Easting (M)	418,060.8740	
Elevation (M)*	107.963	
Northing (SFT)	320,210.0000	
Easting (SFT)	1,371,588.0508	
Elevation (SFT)*	354.208	

Convergence Angle	0	6	55.5496731
Scale Factor	0.999956809		
Elevation Adjust. Factor	0.9999830574		
Combined Adjust. Factor	0.9999398671		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Fence corner	167	23.80	78.1	AZ Mark Station 730024
MK # 2	Telephone box	201	23.22	76.2	Geodetic Azimuth 182 09 59
MK # 3	Power pole	229	26.10	85.6	Grid Azimuth 182 03 04

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARBT Ref Mon # 3 ARLR	3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730025	Date Monumented 11/2/2009	Monumented By AHTD	County White	Route NA	Job Number: 050189
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	98,928.3621	
Easting (M)	419,233.5290	
Elevation (M)*	112.969	
Northing (SFT)	324,567.4680	
Easting (SFT)	1,375,435.3364	
Elevation (SFT)*	370.632	

Convergence Angle	0	7	22.5959421
Scale Factor	0.999955488		
Elevation Adjust. Factor	0.9999822718		
Combined Adjust. Factor	0.9999377606		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	105	16.03	52.6
MK # 2	Power pole with 2 guy wires	125	19.35	63.5
MK # 3	Eight inch Pear tree	204	11.58	38.0

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARBT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>Hebeport, G 8</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARLR</td> </tr> </table>	Ref Mon # 1	ARBT	Ref Mon # 2	Hebeport, G 8	Ref Mon # 3	ARLR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.</td> </tr> </table>	Comments	3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.
Ref Mon # 1	ARBT								
Ref Mon # 2	Hebeport, G 8								
Ref Mon # 3	ARLR								
Comments									
3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.									

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730025A	Date Monumented 11/2/2009	Monumented By AHTD	County White	Route NA	Job Number: 050189
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	98,927.3661	
Easting (M)	418,771.8160	
Elevation (M)*	111.930	
Northing (SFT)	324,564.2003	
Easting (SFT)	1,373,920.5330	
Elevation (SFT)*	367.224	

Convergence Angle	0	7	11.9711307
Scale Factor	0.999955488		
Elevation Adjust. Factor	0.9999824348		
Combined Adjust. Factor	0.9999379236		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fire hydrant	318	1.62	5.3
MK # 2	Square telephone box	117	6.77	22.2
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.
Ref Mon # 2 Hebeport, G 8	
Ref Mon # 3 ARLR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730026	Date Monumented 11/3/2009	Monumented By AHTD	County White	Route 16	Job Number: 050189, 050198
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,419.6641	
Easting (M)	423,218.6420	
Elevation (M)*	69.468	
Northing (SFT)	336,021.8480	
Easting (SFT)	1,388,509.8280	
Elevation (SFT)*	227.912	

Convergence Angle	0	8	54.5079296
Scale Factor	0.999952224		
Elevation Adjust. Factor	0.9999890984		
Combined Adjust. Factor	0.9999413229		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Sewer manhole	154	15.70	51.5
MK # 2	Combination pole with transformer	207	26.50	86.9
MK # 3	Combination pole with 3 guy wires	6	34.20	112.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	Digital Levels were ran from NGS mark H8 by Crew S5113 during Job 050198. Elev for H8 was updated to 264.279.
Ref Mon # 2 Hebeport, G 8	
Ref Mon # 3 ARLR	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730026A	Date Monumented 11/3/2009	Monumented By AHTD	County White	Route 16	Job Number: 050189, 050198
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,954.3911	
Easting (M)	423,206.0560	
Elevation (M)*	70.123	
Northing (SFT)	337,776.1981	
Easting (SFT)	1,388,468.5354	
Elevation (SFT)*	230.063	

Convergence Angle	0	8	54.2500761
Scale Factor	0.999951749		
Elevation Adjust. Factor	0.9999889955		
Combined Adjust. Factor	0.9999407450		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Water valve	254	11.90	39.0
MK # 2	Center of manhole	242	16.30	53.5
MK # 3	Combination pole	2	35.50	116.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	Digital Levels were ran from NGS mark H8 by Crew S5113 during Job 050198. Elev for H8 was updated to 264.279.
Ref Mon # 2 Hebeport, G 8	
Ref Mon # 3 ARLR	

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 15 39.8514096
Longitude	91 44 41.8854156
Ellipsoid Height (M):	42.871
Geoid Height (M):	-27.256

Location Description
<p>To reach the station from the junction of highways 16-67B and Main street in the center of Searcy go west on hwy-16 for 1.10 miles to the station on the left in front of the First Community Bank at the northwest corner of the intersection with hwy-16 and Holes road. 38.0 feet west of the center of hwy-16, 75.5 feet south of the center of a concrete drive, 54.11 feet north of the center of Holmes road and 1.30 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "730026A 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>

AZ Mark Station	730026
Geodetic Azimuth	178 48 00
Grid Azimuth	178 39 06

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730027	Date Monumented 11/3/2009	Monumented By AHTD	County White	Route NA	Job Number: 050189, 050198
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	103,214.1341	
Easting (M)	426,040.8590	
Elevation (M)*	64.493	
Northing (SFT)	338,628.3716	
Easting (SFT)	1,397,769.0516	
Elevation (SFT)*	211.592	

Convergence Angle	0	9	59.5299752
Scale Factor	0.999951528		
Elevation Adjust. Factor	0.9999898790		
Combined Adjust. Factor	0.9999414075		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	North end of guard rail	355	9.80	32.2	
MK # 2	Northwest corner of bridge	170	51.50	169.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	3 Wire Levels ran by crews S5111, S5108, & S5113 in Nov. 10 to Mar. 11 from 1st order NGS mark Searcy RM 1 & NGS 2nd order mark Q 205
Ref Mon # 2 Hebeport, G 8	
Ref Mon # 3 ARLR	

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 15 48.0272112
Longitude	91 42 49.7011968
Ellipsoid Height (M):	37.258
Geoid Height (M):	-27.249

Location Description
<p>To reach the station from the junction of highways 167 and 385 northeast of Searcy go west on hwy-385 for 0.20 miles to a "T" junction with "CW road straight ahead. Go straight ahead on CW road for 2.10 miles to Davis drive on the left. Turn left on Davis drive and go 0.40 miles to the station on the right behind the guard rail.. 27.4 feet west of the center of Davis drive and 2.30 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "730027 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.</p>

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730027A	Date Monumented 11/3/2009	Monumented By AHTD	County White	Route NA	Job Number: 050189, 050198
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	103,721.6011	
Easting (M)	426,024.7940	
Elevation (M)*	64.817	
Northing (SFT)	340,293.2863	
Easting (SFT)	1,397,716.3450	
Elevation (SFT)*	212.653	

Convergence Angle	0	9	59.1940576
Scale Factor	0.999951087		
Elevation Adjust. Factor	0.9999898282		
Combined Adjust. Factor	0.9999409157		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	335	18.80	61.7
MK # 2	North end of a 30 inch CMP	222	10.40	34.1
MK # 3	Center of Chain link gate	223	17.10	56.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 Hebeport, G 8 Ref Mon # 3 ARLR	3 Wire Levels ran by crews S5111, S5108, & S5113 in Nov. 10 to Mar. 11 from 1st order NGS mark Searcy RM 1 & NGS 2nd order mark Q 205

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 16 4.4959404
Longitude	91 42 50.2784748
Ellipsoid Height (M):	37.581
Geoid Height (M):	-27.249

Location Description
To reach the station from the junction of highways 167 and 385 northeast of Searcy go west on hwy-385 for 0.20 miles to a "T" junction with "CW road straight ahead. Go straight ahead on CW road for 2.10 miles to Davis drive on the left and the station in the southwest corner of the junction. 43.0 feet west of the center of Davis drive, 45.0 feet north of a gravel drive, 33.8 feet east of a chain link fence and 2.40 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "730027A 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730028	Date Monumented 11/3/2009	Monumented By AHTD	County White	Route 67	Job Number: 050189, 050198
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	104,121.8531	
Easting (M)	429,904.3710	
Elevation (M)*	76.140	
Northing (SFT)	341,606.4464	
Easting (SFT)	1,410,444.5905	
Elevation (SFT)*	249.801	

Convergence Angle	0	11	28.5474616
Scale Factor	0.999950754		
Elevation Adjust. Factor	0.9999880514		
Combined Adjust. Factor	0.9999388060		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Bend in Right of way fence	44	25.00	82.0	AZ Mark Station
MK # 2	Southeast edge of a yellow billboard	237	15.30	50.2	Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	3 Wire Levels ran by crews S5111, S5108, & S5113 in Nov. 10 to Mar. 11 from 1st order NGS mark Searcy RM 1 & NGS 2nd order mark Q 205
Ref Mon # 2 Hebeport, G 8	
Ref Mon # 3 ARLR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730028A	Date Monumented 11/3/2009	Monumented By AHTD	County White	Route 385	Job Number: 050189, 050198
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	103,816.4621	
Easting (M)	429,767.7730	
Elevation (M)*	78.977	
Northing (SFT)	340,604.5094	
Easting (SFT)	1,409,996.4353	
Elevation (SFT)*	259.112	

Convergence Angle	0	11	25.3789559
Scale Factor	0.999951015		
Elevation Adjust. Factor	0.9999876060		
Combined Adjust. Factor	0.9999386216		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	South end of a bridge	302	2.80	9.2	
MK # 2	East end of guard rail	103	20.50	67.3	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 Hebeport, G 8 Ref Mon # 3	3 Wire Levels ran by crews S5111, S5108, & S5113 in Nov. 10 to Mar. 11 from 1st order NGS mark Searcy RM 1 & NGS 2nd order mark Q 205

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730029	Date Monumented 9/1/2011	Monumented By AHTD	County WHITE	Route 64	Job Number: 050264
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	105,573.9331
Easting (M)	451,216.3238
Elevation (M)*	65.251
Northing (SFT)	346,370.4788
Easting (SFT)	1,480,365.5557
Elevation (SFT)*	214.076

Convergence Angle	0 19 39.4373978
Scale Factor	0.999949619
Elevation Adjust. Factor	0.9999897602
Combined Adjust. Factor	0.9999393797

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 367, IN BALD KNOB, GO EAST ON HIGHWAY 64 FOR 7.3 MILES TO THE STATION MARK ON THE LEFT, NORTH 19.9 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 2.7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730029 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST OF NORTHEAST BRIDGE CORNER	285	16.98	55.7
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <p>DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730029A	Date Monumented 9/1/2011	Monumented By AHTD	County WHITE	Route 64	Job Number: 050264
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	105,490.5340	
Easting (M)	451,643.6801	
Elevation (M)*	65.221	
Northing (SFT)	346,096.8603	
Easting (SFT)	1,481,767.6405	
Elevation (SFT)*	213.980	

Convergence Angle	0	19	49.2675014
Scale Factor	0.999949690		
Elevation Adjust. Factor	0.9999897648		
Combined Adjust. Factor	0.9999394553		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID09
Latitude	35 16 58.2931128
Longitude	91 25 56.2308240
Ellipsoid Height (M):	37.858
Geoid Height (M):	-27.370

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 367, IN BALD KNOB, GO EAST ON HIGHWAY 64 FOR 7.55 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 32.4 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730029A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 730030	Date Monumented 9/1/2011	Monumented By AHTD	County WHITE	Route 64	Job Number: 050264
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	106,657.8491	
Easting (M)	446,567.6441	
Elevation (M)*	64.866	
Northing (SFT)	349,926.6266	
Easting (SFT)	1,465,114.0124	
Elevation (SFT)*	212.813	

Convergence Angle	0	17	52.5168846
Scale Factor	0.999948725		
Elevation Adjust. Factor	0.9999898206		
Combined Adjust. Factor	0.9999385461		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	18	16.00	52.5	730030A
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730030A	Date Monumented 9/1/2011	Monumented By AHTD	County WHITE	Route 64	Job Number: 050264
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	106,500.7519	
Easting (M)	447,105.2912	
Elevation (M)*	64.697	
Northing (SFT)	349,411.2169	
Easting (SFT)	1,466,877.9429	
Elevation (SFT)*	212.262	

Convergence Angle	0	18	4.8803792
Scale Factor	0.999948852		
Elevation Adjust. Factor	0.9999898470		
Combined Adjust. Factor	0.9999386995		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER OF A RAILROAD SIG	183	21.70	71.2
MK # 2	TELEPHONE POLE	248	25.30	83.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730031	Date Monumented 9/1/2011	Monumented By AHTD	County WHITE	Route 64	Job Number: 050264
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	107,507.3264	
Easting (M)	442,973.4936	
Elevation (M)*	63.787	
Northing (SFT)	352,713.6200	
Easting (SFT)	1,453,322.2036	
Elevation (SFT)*	209.276	

Convergence Angle	0	16	29.8338664
Scale Factor	0.999948046		
Elevation Adjust. Factor	0.9999899898		
Combined Adjust. Factor	0.9999380363		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.

Vertical Determined By: 3rd Order - Digital Levels	
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID09
Latitude	35 18 5.2230636
Longitude	91 31 38.9597016
Ellipsoid Height (M):	36.491
Geoid Height (M):	-27.329

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 367, IN BALD KNOB, GO EAST ON HIGHWAY 64 FOR 2.2 MILES TO THE STATION MARK ON THE LEFT, NORTH 23.4 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730031 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730031A	Date Monumented 9/1/2011	Monumented By AHTD	County WHITE	Route 64	Job Number: 050264
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	107,348.4183	
Easting (M)	443,537.3732	
Elevation (M)*	63.374	
Northing (SFT)	352,192.2690	
Easting (SFT)	1,455,172.1986	
Elevation (SFT)*	207.920	

Convergence Angle	0	16	42.8040404
Scale Factor	0.999948171		
Elevation Adjust. Factor	0.9999900546		
Combined Adjust. Factor	0.9999382261		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	273	12.19	40.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.</td> </tr> </table>	Comments	DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.
Comments			
DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 367, IN BALD KNOB, GO EAST ON HIGHWAY 64 FOR 2.6 MILES TO THE STATION MARK ON THE RIGHT, WEST 28.5 FEET OF THE CENTERLINE OF WALTER BUTLER ROAD, NORTH 49.8 FEET OF THE CENTERLINE OF THE RAILROAD, SOUTH 48.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 2 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730031A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	730031A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730032	Date Monumented 9/2/2011	Monumented By AHTD	County WHITE	Route 64	Job Number: 050264, 050477
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	108,857.7040	0.0040			
Easting (M)	439,649.2567	0.0040			
Elevation (M)*	75.070				

Northing (SFT)	357,143.9839				
Easting (SFT)	1,442,415.9364				
Elevation (SFT)*	246.293				

Convergence Angle	0	15	13.4035340		
Scale Factor	0.999947015				
Elevation Adjust. Factor	0.9999882192				
Combined Adjust. Factor	0.9999352348				

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)				
Latitude	35	18	49.5402012		
Longitude	91	33	50.3063748		
Ellipsoid Height:	47.775				
Grid Northing (Meters)	108,857.7155				
Grid Easting (Meters)	439,649.2487				

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 367, IN BALD KNOB, GO EAST ON HIGHWAY 64 FOR 0.5 MILES TO THE STATION MARK ON THE RIGHT, SOUTHWEST 42.0 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730032 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	155	18.23	59.8	730032A
MK # 2	NE CORNER OF METAL BLDG	248	27.58	90.5	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012. *****Original geoid ht. was 27.309m & was superceded in Nov. 2021. *****ELEV. UPDATED IN NOV. 2021 IS BASED ON DIGITAL LEVELS FROM NG5 PUBLISHED 2ND ORDER BM's B 341 & C 341 BY CREW S5103 FOR JOB
Ref Mon # 2 ARSC	
Ref Mon # 3 ARWY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730032A	Date Monumented 9/2/2011	Monumented By AHTD	County WHITE	Route 64	Job Number: 050264, 050477
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	108,420.1937	0.0040			
Easting (M)	439,570.6870	0.0040			
Elevation (M)*	66.197				
Northing (SFT)	355,708.5855				
Easting (SFT)	1,442,158.1623				
Elevation (SFT)*	217.182				

Convergence Angle	0	15	11.5489980
Scale Factor	0.999947340		
Elevation Adjust. Factor	0.9999896116		
Combined Adjust. Factor	0.9999369522		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	18	35.3544480
Longitude	91	33	53.4931560
Ellipsoid Height:	38.921		
Grid Northing (Meters)	108,420.2044		
Grid Easting (Meters)	439,570.6856		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	159	5.94	19.5
MK # 2				
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARBT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARSC</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARWY</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARBT	Ref Mon # 2	ARSC	Ref Mon # 3	ARWY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012. *****Original geoid ht. was 27.312m & was superceded in Nov. 2021. *****ELEV. UPDATED IN NOV. 2021 IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BM's B 341 & C 341 BY CREW S5103 FOR JOB </td> </tr> </table>	Comments	DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012. *****Original geoid ht. was 27.312m & was superceded in Nov. 2021. *****ELEV. UPDATED IN NOV. 2021 IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BM's B 341 & C 341 BY CREW S5103 FOR JOB
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARBT										
Ref Mon # 2	ARSC										
Ref Mon # 3	ARWY										
Comments											
DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012. *****Original geoid ht. was 27.312m & was superceded in Nov. 2021. *****ELEV. UPDATED IN NOV. 2021 IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BM's B 341 & C 341 BY CREW S5103 FOR JOB											

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 367, IN BALD KNOB, GO EAST ON HIGHWAY 64 FOR 0.35 MILES TO MILLER STREET AND TURN RIGHT (SOUTH) AND GO 0.3 MILES TO THE JUNCTION OF MILLER STREET AND WALNUT STREET AND THE STATION MARK IN THE SOUTHEAST CORNER OF THE INTERSECTION, SOUTH 58.8 FEET OF THE CENTERLINE OF MILLER STREET AND WEST 20.3 FEET OF THE CENTERLINE OF WALNUT STREET AND 32.2 FEET EAST OF THE CENTERLINE OF A RAILROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730032A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID 18
Latitude	35 18 35.3541024
Longitude	91 33 53.4931020
Ellipsoid Height (M):	38.880 0.0130
Geoid Height (M):	-27.323 0.0130

AZ Mark Station	730032
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730033	Date Monumented 9/1/2011	Monumented By AHTD	County WHITE	Route 67/167	Job Number: 012154, Mobile LiDAR-CLS
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Zone Arkansas North	Zone Code 301	Vertical Determined By: None
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 82,190.2690		Geoid Datum: Geoid 09
Easting (M) 408,372.8072		Latitude 35 4 26.9017608
Elevation (M)*		Longitude 91 54 29.5070940
Northing (SFT) 269,652.5742		Ellipsoid Height (M): 48.444
Easting (SFT) 1,339,803.1183		Geoid Height (M): -27.314
Elevation (SFT)*		

Convergence Angle 0 3 12.3135338	Location Description
Scale Factor 0.999975305	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND U.S. HIGHWAY 67, LOCATED ON THE WEST SIDE OF BEEBE, GO NORTH ON U.S. HIGHWAY 67 AND U.S. HIGHWAY 64 FOR 0.55 MILES TO THE STATION ON THE LEFT, SET IN THE MEDIAN. THE STATION IS 49.31 FEET SOUTHEAST OF THE CENTER OF THE SOUTH BOUND LANE, 35.56 FEET NORTHWEST OF THE NORTH BOUND LANE AND 4.43 FEET SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730033 2011" SET ON TOP OF A REBAR 2.54 FEET LONG AND DRIVEN BELOW THE SURFACE OF THE GROUND.</p>
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL			
Horizontal Datum		Latitude	
Longitude		Ellipsoid Height:	
Grid Northing (Meters)		Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station 730015
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) <div style="margin-top: 10px;"> Ref Mon # 1 <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;"> Ref Mon # 2 <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;"> Ref Mon # 3 <input style="width: 150px;" type="text"/> </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Comments </div> <div style="border: 1px solid black; padding: 5px; min-height: 100px;"> HANDHELD, 35-04-27, 91-54-30 </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730034	Date Monumented 9/1/2011	Monumented By AHTD	County WHITE	Route 64	Job Number: 012154Mobie LiDAR-CLS
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	84,742.7076	
Easting (M)	399,869.8799	
Elevation (M)*	78.034	
Northing (SFT)	278,026.6999	
Easting (SFT)	1,311,906.4310	
Elevation (SFT)*	256.018	

Convergence Angle	0	0	2.9895563
Scale Factor	0.999971832		
Elevation Adjust. Factor	0.9999877540		
Combined Adjust. Factor	0.9999595864		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	199	4.48	14.7
MK # 2	POWER POLE	102	21.43	70.3
MK # 3	NORTHWEST CORNER OF WOOD FRAME	238	15.54	51.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>HANDHELD, 35-05-50, 92-00-05, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.</td> </tr> </table>	Comments	HANDHELD, 35-05-50, 92-00-05, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.
Comments			
HANDHELD, 35-05-50, 92-00-05, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.			

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 64 AND U.S. HIGHWAY 67/167, LOCATED ON THE WEST SIDE OF BEEBE, GO WEST ON U.S. HIGHWAY 64 6.3 MILES TO THE STATION ON THE LEFT, SOUTH 54 FEET OF THE CENTERLINE OF THE HIGHWAY AND 8.0 FEET NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730034 2011" SET ON TOP OF A REBAR 4 FEET LONG AND DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	730034A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730034A	Date Monumented 9/1/2011	Monumented By AHTD	County WHITE	Route 64	Job Number: 012154, Mobile LiDAR-CLS
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	84,789.4447	
Easting (M)	399,381.3158	
Elevation (M)*	76.430	
Northing (SFT)	278,180.0365	
Easting (SFT)	1,310,303.5336	
Elevation (SFT)*	250.755	

Convergence Angle	0	0	14.2145679
Scale Factor	0.999971770		
Elevation Adjust. Factor	0.9999880057		
Combined Adjust. Factor	0.9999597761		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	283	21.60	70.9
MK # 2	FENCE CORNER	95	23.41	76.8
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>HANDHELD, 35-05-51, 92-00-24, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.</td> </tr> </table>	Comments	HANDHELD, 35-05-51, 92-00-24, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.
Comments			
HANDHELD, 35-05-51, 92-00-24, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.			

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND U.S. HIGHWAY 67/167, LOCATED ON THE WEST SIDE OF BEEBE, GO WEST ON U.S. HIGHWAY 64 6.6 MILES TO THE STATION ON THE RIGHT, SOUTH 38.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND 1.8 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730034A 2011" SET ON TOP OF A REBAR 4 FEET LONG AND DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730035	Date Monumented 9/1/2011	Monumented By AHTD	County WHITE	Route 64	Job Number: 2154,050263Mobie LiDAR-C
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	85,136.2646
Easting (M)	395,155.9669
Elevation (M)*	82.939
Northing (SFT)	279,317.8948
Easting (SFT)	1,296,440.8681
Elevation (SFT)*	272.110

Convergence Angle	0	1	51.2982781
Scale Factor	0.999971313		
Elevation Adjust. Factor	0.9999869843		
Combined Adjust. Factor	0.9999582977		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	165	25.30	83.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	HANDHELD, 35-06-03, 92-02-11, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.
Ref Mon # 2	
Ref Mon # 3	

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 64 AND U.S. HIGHWAY 67/167, LOCATED ON THE WEST SIDE OF BEEBE, GO WEST ON U.S. HIGHWAY 64 9.15 MILES TO THE STATION ON THE LEFT, WEST 50 FEET OF THE CENTERLINE OF THE HIGHWAY AND 13.6 FEET EAST OF A WITNESS POST, 26.6 FEET SOUTH OF A DIRT FIELD ROAD.. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730035 2011" SET ON TOP OF A REBAR 4 FEET LONG AND DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	730035A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730035A	Date Monumented 9/1/2011	Monumented By AHTD	County WHITE	Route 64	Job Number: 012154Mobie LiDAR-CLS
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	85,646.0507
Easting (M)	394,945.8484
Elevation (M)*	82.239
Northing (SFT)	280,990.4180
Easting (SFT)	1,295,751.5043
Elevation (SFT)*	269.812

Convergence Angle	0	1	56.1326295
Scale Factor	0.999970645		
Elevation Adjust. Factor	0.9999870942		
Combined Adjust. Factor	0.9999577396		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	345	23.23	76.2
MK # 2	POWER POLE	138	23.01	75.5
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments HANDHELD, 35-06-19, 92-03-20, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.
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Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND U.S. HIGHWAY 67/167, LOCATED ON THE WEST SIDE OF BEEBE, GO WEST ON U.S. HIGHWAY 64 9.5 MILES TO THE STATION ON THE RIGHT, EAST 26 FEET OF THE CENTERLINE OF THE HIGHWAY AND 14.7 FEET WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730035A 2011" SET ON TOP OF A REBAR 4 FEET LONG AND DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	730035
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730036	Date Monumented 1/22/2013	Monumented By AHTD	County WHITE	Route NA	Job Number: 050198
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	103,512.2943	
Easting (M)	419,183.5555	
Elevation (M)*	133.224	
Northing (SFT)	339,606.5855	
Easting (SFT)	1,375,271.3817	
Elevation (SFT)*	437.084	

Convergence Angle	0	7	21.6718425
Scale Factor	0.999951253		
Elevation Adjust. Factor	0.9999790933		
Combined Adjust. Factor	0.9999303473		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	West end of gate	89	11.13	36.5	730036A
MK # 2	24" Oak	180	17.28	56.7	
MK # 3	30" Oak	245	28.83	94.6	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. WAS EST. FROM GPS MON. 730026 AND 730026A DURING JOB 050251 OR 050198 BY CREW S5102 IN FEB 2013.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730036A	Date Monumented 1/22/2013	Monumented By AHTD	County WHITE	Route NA	Job Number: 050198
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	103,799.0592
Easting (M)	419,143.5207
Elevation (M)*	132.701
Northing (SFT)	340,547.4134
Easting (SFT)	1,375,140.0342
Elevation (SFT)*	435.371

Convergence Angle	0	7	20.7642126
Scale Factor	0.999951005		
Elevation Adjust. Factor	0.9999791752		
Combined Adjust. Factor	0.9999301813		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	15" Pine tree	13	24.57	80.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. WAS EST. FROM GPS MON. 730026 AND 730026A DURING JOB 050251 OR 050198 BY CREW S5102 IN FEB 2013.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730037	Date Monumented 9/15/2014	Monumented By AHTD	County WHITE	Route 36	Job Number: 050280
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	101,604.7197	0.0010			
Easting (M)	415,938.8254	0.0020			
Elevation (M)*	93.468				
Northing (SFT)	333,348.1512				
Easting (SFT)	1,364,625.9630				
Elevation (SFT)*	306.652				

Convergence Angle	0	6	6.8889779
Scale Factor	0.999952947		
Elevation Adjust. Factor	0.9999853321		
Combined Adjust. Factor	0.9999382798		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	85	8.53	28.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARLR	DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.
Ref Mon # 2: ARBT	
Ref Mon # 3: P777	

Vertical Determined By:	None
Elevation Datum:	
Geoid Datum:	GEOID96
Latitude	35 14 56.5698300
Longitude	91 49 29.4972888
Ellipsoid Height (M):	66.161 0.0060
Geoid Height (M):	-27.292

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO EAST ON HIGHWAY 36 FOR 2.3 MILES TO THE MARK ON THE RIGHT, 26.0 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY AND 15.3 FEET NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730037 2014" ON TOP OF A 3.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730037A	Date Monumented 9/15/2014	Monumented By AHTD	County WHITE	Route 36	Job Number: 050280
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	101,389.1460 0.0010
Easting (M)	416,406.4531 0.0020
Elevation (M)*	87.726

Northing (SFT)	332,640.8898	
Easting (SFT)	1,366,160.1715	
Elevation (SFT)*	287.814	

Convergence Angle	0 6	17.6439918
Scale Factor	0.999953146	
Elevation Adjust. Factor	0.9999862331	
Combined Adjust. Factor	0.9999393798	

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO EAST ON HIGHWAY 36 FOR 2.6 MILES TO THE MARK ON THE RIGHT, 57.0 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY, 41 FEET WEST OF THE CENTER OF A GRAVEL DRIVEWAY, 48 FEET EAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 10.3 FEET NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730037A 2014" ON TOP OF A 3.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 TELEPHONE BOX	67	5.48	18.0	AZ Mark Station 730037
MK # 2				Geodetic Azimuth
MK # 3				Grid Azimuth

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARLR</p> <p>Ref Mon # 2 ARBT</p> <p>Ref Mon # 3 P777</p>	<p style="text-align: center;">Comments</p> <p>DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730038	Date Monumented 9/15/2014	Monumented By AHTD	County WHITE	Route 36	Job Number: 050280
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	102,723.5003	0.0010			
Easting (M)	411,466.9424	0.0010			
Elevation (M)*	100.578				

Northing (SFT)	337,018.6839				
Easting (SFT)	1,349,954.4602				
Elevation (SFT)*	329.978				

Convergence Angle	0	4	23.9857166
Scale Factor	0.999951933		
Elevation Adjust. Factor	0.9999842163		
Combined Adjust. Factor	0.9999361501		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO WEST ON HIGHWAY 36 FOR 0.65 MILES TO THE MARK ON THE RIGHT, 32.0 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY AND 18 FEET EAST OF THE CENTER OF A GRAVEL DRIVEWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730038 2014" ON TOP OF A 3.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SW COR HOUSE	10	17.22	56.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.
Ref Mon # 1 ARLR	
Ref Mon # 2 ARBT	
Ref Mon # 3 P777	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730038A	Date Monumented 9/15/2014	Monumented By AHTD	County WHITE	Route 36	Job Number: 050280
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	102,441.9451	0.0010			
Easting (M)	411,904.2342	0.0010			
Elevation (M)*	91.690				
Northing (SFT)	336,094.9482				
Easting (SFT)	1,351,389.1417				
Elevation (SFT)*	300.819				

Convergence Angle	0	4	34.0441889
Scale Factor	0.999952185		
Elevation Adjust. Factor	0.9999856111		
Combined Adjust. Factor	0.9999377968		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	121	2.01	6.6
MK # 2	COMBINATION POLE	79	4.57	15.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.
Ref Mon # 2 ARBT	
Ref Mon # 3 P777	

AZ Mark Station	730038
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730039	Date Monumented 9/15/2014	Monumented By AHTD	County WHITE	Route 36	Job Number: 050280
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	104,202.2851	0.0010			
Easting (M)	407,026.1559	0.0010			
Elevation (M)*	99.031				

Northing (SFT)	341,870.3304				
Easting (SFT)	1,335,384.9798				
Elevation (SFT)*	324.905				

Convergence Angle	0	2	41.7790996
Scale Factor	0.999950645		
Elevation Adjust. Factor	0.9999844590		
Combined Adjust. Factor	0.9999351048		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO WEST ON HIGHWAY 36 FOR 3.6 MILES TO THE MARK ON THE LEFT, 36.0 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY AND 4.1 FEET NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730039 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments
<p>DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730039A	Date Monumented 9/15/2014	Monumented By AHTD	County WHITE	Route 36	Job Number: 050280
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	104,110.9758	0.0010			
Easting (M)	407,448.8784	0.0010			
Elevation (M)*	93.492				

Northing (SFT)	341,570.7598				
Easting (SFT)	1,336,771.8619				
Elevation (SFT)*	306.731				

Convergence Angle	0	2	51.5106454
Scale Factor	0.999950723		
Elevation Adjust. Factor	0.9999853283		
Combined Adjust. Factor	0.9999360520		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO WEST ON HIGHWAY 36 FOR 3.3 MILES TO THE MARK ON THE RIGHT, 23.0 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY AND 20.0 FEET SOUTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730039A 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	324	7.40	24.3
MK # 2				
MK # 3				

AZ Mark Station	730039
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARBT Ref Mon # 3 P777	DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730040	Date Monumented 9/15/2014	Monumented By AHTD	County WHITE	Route 36	Job Number: 050280
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	105,683.4106	0.0010			
Easting (M)	403,991.5734	0.0020			
Elevation (M)*	233.093				
Northing (SFT)	346,729.6563				
Easting (SFT)	1,325,429.0204				
Elevation (SFT)*	764.739				

Convergence Angle	0	1	31.9222459
Scale Factor	0.999949411		
Elevation Adjust. Factor	0.9999634215		
Combined Adjust. Factor	0.9999128343		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SIGN (J H RANCH)	162	10.70	35.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARLR	DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.
Ref Mon # 2: ARBT	
Ref Mon # 3: P777	

Vertical Determined By:	None
Elevation Datum:	
Geoid Datum:	GEOID96
Latitude	35 17 9.3542964
Longitude	91 57 22.0306176
Ellipsoid Height (M):	205.699 0.0070
Geoid Height (M):	-27.357

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO WEST ON HIGHWAY 36 FOR 5.5 MILES, THEN LEFT (WEST) ON GRAVEL HILL ROAD 0.40 MILES TO THE MARK ON THE LEFT, 27.0 FEET SOUTH OF THE CENTERLINE GRAVEL HILL ROAD, 36.8 FEET WEST OF THE CENTER OF A GRAVEL DRIVEWAY AND 19.0 FEET NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730040 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730040A	Date Monumented 9/15/2014	Monumented By AHTD	County WHITE	Route 36	Job Number: 050280
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	105,692.2200	0.0010			
Easting (M)	404,672.3100	0.0010			
Elevation (M)*	229.728				
Northing (SFT)	346,758.5585				
Easting (SFT)	1,327,662.4037				
Elevation (SFT)*	753.698				

Convergence Angle	0	1	47.5990832
Scale Factor	0.999949404		
Elevation Adjust. Factor	0.9999639496		
Combined Adjust. Factor	0.9999133554		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/ LIGHT AND TRANSFORMER	66	18.23	59.8
MK # 2	POWER POLE W/ GUY AND TRANSFORMER	125	19.20	63.0
MK # 3	N. END OF 24" CMP CULVERT	287	8.90	29.2

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARBT Ref Mon # 3 P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.</td> </tr> </table>	Comments	DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.
Comments			
DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.			

Vertical Determined By: None

Elevation Datum:

Geoid Datum: GEOID96

Latitude 35 17 9.6294768

Longitude 91 56 55.0898016

Ellipsoid Height (M): 202.347 0.0070

Geoid Height (M): -27.354

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO WEST ON HIGHWAY 36 FOR 5.5 MILES TO THE MARK ON THE RIGHT, 53.2 FEET EAST OF THE CENTERLINE OF THE HIGHWAY, 20 FEET NORTH OF THE CENTER OF NEWTON HOLLOW ROAD, 13.5 FEET EAST OF THE CENTER OF IVY LANE AND 35.4 FEET NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730040A 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730041	Date Monumented 9/16/2014	Monumented By AHTD	County WHITE	Route 16	Job Number: 050279
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	117,921.4836	0.0040			
Easting (M)	416,677.2376	0.0040			
Elevation (M)*	100.096				
Northing (SFT)	386,880.7341				
Easting (SFT)	1,367,048.5704				
Elevation (SFT)*	328.397				

Convergence Angle	0	6	24.5864278
Scale Factor	0.999941297		
Elevation Adjust. Factor	0.9999842920		
Combined Adjust. Factor	0.9999255899		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 110 AND STATE HIGHWAY 16 IN PANGBURN, GO EAST ON HIGHWAY 16 FOR 2.5 MILES TO THE MARK ON THE LEFT, 16.5 FEET EAST OF THE EAST EDGE OF PAVEMENT, 96 FEET SOUTH SOUTHEAST OF THE CENTER OF A PAVED DRIVEWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730041 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE W/ GUY, LIGHT AND TRANSFORMER	102	47.50	155.8	
MK # 2	POWER POLE W/ LIGHT	345	95.50	313.3	
MK # 3	TELEPHONE BOX	116	28.00	91.9	

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARLR	
Ref Mon # 2	ARBT	
Ref Mon # 3	P777	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730042	Date Monumented 9/16/2014	Monumented By AHTD	County WHITE	Route 110	Job Number: 050279
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	121,357.3052	0.0040	
Easting (M)	414,803.5848	0.0040	
Elevation (M)*	106.679		
Northing (SFT)	398,153.0921		
Easting (SFT)	1,360,901.4278		
Elevation (SFT)*	349.995		

Convergence Angle	0	5	41.5102136
Scale Factor	0.999939676		
Elevation Adjust. Factor	0.9999832589		
Combined Adjust. Factor	0.9999229359		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER OF PANGBURN FIRE DEPARTMENT BUILDING	247	65.20	213.9
MK # 2	COMBINATION POLE W/ GUY AND LIGHT	281	17.70	58.1
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARBT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>P777</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	ARBT	Ref Mon # 3	P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Ref Mon # 1	ARLR								
Ref Mon # 2	ARBT								
Ref Mon # 3	P777								
Comments									

Vertical Determined By: None	
Elevation Datum:	
Geoid Datum:	GEOID96
Latitude	35 25 37.5987720
Longitude	91 50 13.1109720
Ellipsoid Height (M):	79.363 0.0070
Geoid Height (M):	-27.323

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 110 AND STATE HIGHWAY 16 IN PANGBURN, GO NORTH ON HIGHWAY 110 FOR 210.5 FEET MEASURED TO THE MARK ON THE RIGHT, 31.0 FEET EAST OF CENTERLINE OF HIGHWAY 110, 210.5 FEET NORTH OF THE CENTERLINE OF MAIN STREET. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730042 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730042A	Date Monumented 9/16/2014	Monumented By AHTD	County WHITE	Route 110	Job Number: 050279
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	121,823.1111	0.0040			
Easting (M)	414,521.3035	0.0040			
Elevation (M)*	102.198				
Northing (SFT)	399,681.3237				
Easting (SFT)	1,359,975.3099				
Elevation (SFT)*	335.293				

Convergence Angle	0	5	35.0156119		
Scale Factor	0.999939479				
Elevation Adjust. Factor	0.9999839621				
Combined Adjust. Factor	0.9999234421				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 110 AND STATE HIGHWAY 16 IN PANGBURN, GO NORTH ON HIGHWAY 110 FOR 0.3 MILES TO THE MARK ON THE LEFT, 39.2 FEET WEST OF CENTERLINE OF HIGHWAY 110, 24.0 FEET SOUTH OF THE CENTERLINE OF FISK STREET. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730042A 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE W/ GUY AND TRANSFER	336	43.80	143.7	AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARBT Ref Mon # 3 P777	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 740001	Date Monumented 11/16/2000	Monumented By AHTD	County WOODRUFF	Route 33C	Job Number: 110392
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	104,231.5689	
Easting (M)	459,048.7990	
Elevation (M)*		
Northing (SFT)	341,966.4056	
Easting (SFT)	1,506,062.6014	
Elevation (SFT)*		

Convergence Angle	0	22	39.5992648
Scale Factor	0.999950784		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WEST END OF RCP	69	8.20	26.9	740001A
MK # 2	GUY POLE	145	7.65	25.1	90 50 26.55772
MK # 3	NONE				90 27 46.89385

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 SEARPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 740001A	Date Monumented 11/16/2000	Monumented By AHTD	County WOODRUFF	Route 33C	Job Number: 110392
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 104,225.6436		Geoid Datum:
Easting (M) 459,781.9978		Latitude 35 16 15.6057960
Elevation (M)* 		Longitude 91 20 34.5045012
Northing (SFT) 341,946.9657		Ellipsoid Height (M): 37.962
Easting (SFT) 1,508,468.1044		Geoid Height (M): -27.296
Elevation (SFT)* 		

Convergence Angle 0 22 56.4797681	Scale Factor 0.999950793
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 33 AND STATE HIGHWAY 33C, LOCATED ON THE SOUTHEAST SIDE OF AUGUSTA, GO EAST ON STATE HIGHWAY 33C FOR 0.21 KM (0.13 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.00 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 33C, 2.60 METERS WEST OF A WOODEN POST AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740001A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 733.263 METERS.</p>			

Location Reference Marks				
	Description	Azimuth	Distance	
			Meters Feet	
MK # 1	NONE			AZ Mark Station 740001
MK # 2	NONE			Geodetic Azimuth 270 50 43.30901
MK # 3	NONE			Grid Azimuth 270 27 46.89385

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 BRINKLEYPORT</p> <p>Ref Mon # 2 NEWSPORT</p> <p>Ref Mon # 3 SEARPORT</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 740002	Date Monumented 11/16/2000	Monumented By AHTD	County WOODRUFF	Route 17	Job Number: 110423, 110423
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	104,089.6976	
Easting (M)	469,624.2649	
Elevation (M)*		
Northing (SFT)	341,500.9495	
Easting (SFT)	1,540,758.9424	
Elevation (SFT)*		

Convergence Angle	0	26	43.0650404
Scale Factor	0.999950970		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT Ref Mon # 2 NEWSPORT Ref Mon # 3 SEARPORT	

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 16 8.8877208

Longitude 91 14 5.1152388

Ellipsoid Height (M): 32.268

Geoid Height (M): -27.274

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 17, LOCATED ON THE NORTH SIDE OF PATTERSON, GO SOUTH ON STATE HIGHWAY 17 FOR 0.08 KM (0.05 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.42 METERS WEST OF THE CENTER OF STATE HIGHWAY 17 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740002 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 761.954 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 740002A	Date Monumented 11/16/2000	Monumented By AHTD	County WOODRUFF	Route 17	Job Number: 110423, 110289
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	103,327.7882	
Easting (M)	469,622.8086	
Elevation (M)*		
Northing (SFT)	339,001.2518	
Easting (SFT)	1,540,754.1645	
Elevation (SFT)*		

Convergence Angle	0	26	42.8951889
Scale Factor	0.999951632		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	220	2.70	8.9
MK # 2	SQUARE METAL BRACE POST	285	1.00	3.3
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 BRINKLEYPORT Ref Mon # 2 NEWSPORT Ref Mon # 3 SEARPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Vertical Determined By: NONE	
Elevation Datum: NONE	
Geoid Datum:	
Latitude	35 15 44.1649080
Longitude	91 14 5.4071304
Ellipsoid Height (M):	32.991
Geoid Height (M):	-27.269

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 17, LOCATED ON THE NORTH SIDE OF PATTERSON, GO SOUTH ON STATE HIGHWAY 17 FOR 0.89 KM TO THE STATION ON THE RIGHT. THE STATION IS 11.70 METERS NORTH OF THE CENTER OF A GRAVEL DRIVE, 11.40 METERS WEST OF THE CENTER OF STATE HIGHWAY 17 AND 0.66 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740002A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 761.954 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 740003	Date Monumented 1/7/2003	Monumented By AHTD	County WOODRUFF	Route 64	Job Number: 110423
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	103,874.1512	
Easting (M)	475,145.6290	
Elevation (M)*		
Northing (SFT)	340,793.7777	
Easting (SFT)	1,558,873.6178	
Elevation (SFT)*		

Convergence Angle	0	28	50.1444075
Scale Factor	0.999951195		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FLAG POLE	322	20.20	66.3
MK # 2	SOUTH END OF CONCRETE SIGN "McRORY"	328	20.50	67.3
MK # 3	METER POLE	343	23.50	77.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER	
Ref Mon # 2 480016	
Ref Mon # 3 MEM 2	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 16 0.4458288
Longitude	91 10 26.7279600
Ellipsoid Height (M):	37.987
Geoid Height (M):	-27.243

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-64, HWY-17 AND HWY-145 IN McRORY, GO EAST ON HWY-64 FOR 1.45 MILES TO THE STATION ON THE LEFT NEAR A CONCRETE "McRORY" SIGN. 20 METERS SOUTHEAST OF THE SIGN, 11.0 METERS NORTH OF THE CENTER OF HWY-64 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740003 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	740003A
Geodetic Azimuth	125 23 46
Grid Azimuth	124 54 56

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 740003A	Date Monumented 1/7/2003	Monumented By AHTD	County WOODRUFF	Route 64	Job Number: 110423
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	103,196.5091	
Easting (M)	476,116.4500	
Elevation (M)*		
Northing (SFT)	338,570.5469	
Easting (SFT)	1,562,058.7197	
Elevation (SFT)*		

Convergence Angle	0	29	12.3628652
Scale Factor	0.999951795		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	UNDERGROUND FIBER OPTIC CABLE MARK	110	19.80	65.0		740003
MK # 2						305 24 08
MK # 3						304 54 56

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER	
Ref Mon # 2 480016	
Ref Mon # 3 MEM 2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 740004	Date Monumented 1/7/2003	Monumented By AHTD	County WOODRUFF	Route 269	Job Number: 110423
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,722.0311	
Easting (M)	481,675.8800	
Elevation (M)*		
Northing (SFT)	337,013.8637	
Easting (SFT)	1,580,298.2830	
Elevation (SFT)*		

Convergence Angle	0	31	20.2463669
Scale Factor	0.999952260		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FOUR INCH PIPE GATE POST	337	1.70	5.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER Ref Mon # 2 480016 Ref Mon # 3 MEM 2	

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 15 21.2064516

Longitude 91 6 8.7761052

Ellipsoid Height (M): 38.543

Geoid Height (M): -27.194

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 269, LOCATED WEST OF MORTON , GO NORTH ON 269 FOR 0.30 MI TO THE STATION ON THE LEFT NEAR A FIELD ENTRANCE AND A PIPE GATE. THE STATION IS 12.1 METERS WEST OF THE CENTER OF PAVED COUNTY ROAD 269 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740004 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 740004A	Date Monumented 1/7/2003	Monumented By AHTD	County WOODRUFF	Route 64	Job Number: 110423
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,241.9771	
Easting (M)	481,278.0990	
Elevation (M)*		
Northing (SFT)	335,438.8865	
Easting (SFT)	1,578,993.2298	
Elevation (SFT)*		

Convergence Angle	0	31	10.9893813
Scale Factor	0.999952690		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	114	17.00	55.8
MK # 2	FOUR INCH PIPE GATE POST	234	5.60	18.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER	
Ref Mon # 2 480016	
Ref Mon # 3 MEM 2	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 15 5.7467232
Longitude	91 6 24.6843360
Ellipsoid Height (M):	37.301
Geoid Height (M):	-27.192

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 269, LOCATED WEST OF MORTON, GO WEST ON HIGHWAY 64 0.35 MI TO THE STATION ON THE LEFT NEAR A FIELD ROAD AND A GATE. THE STATION IS SOUTH 18.30 METERS OF THE CENTER OF HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740004A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 740005	Date Monumented 1/7/2003	Monumented By AHTD	County WOODRUFF	Route 64	Job Number: 110423
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,260.3851	
Easting (M)	486,102.2250	
Elevation (M)*		
Northing (SFT)	335,499.2801	
Easting (SFT)	1,594,820.3832	
Elevation (SFT)*		

Convergence Angle	0	33	2.0362643
Scale Factor	0.999952714		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	LIGHT POLE	276	8.30	27.2	
MK # 2	SOUTHEAST CORNER OF WOODEN STORA	333	19.00	62.3	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BUTLER	
Ref Mon # 2 480016	
Ref Mon # 3 MEM 2	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 15 4.8819492
Longitude	91 3 13.8490560
Ellipsoid Height (M):	39.596
Geoid Height (M):	-27.166

Location Description
<p>TO REACH THE STATION FROM THE CROSS-WOODRUFF COUNTY LINE AND U.S. STATE HIGHWAY 64 GO WEST ON 64 FOR 0.75 MI TO THE STATION ON THE RIGHT NEAR SOME GRAIN STORAGE BINS AND A TURN IN FOR THE BINS. THE STATION IS 17.90 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740005 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 740005A	Date Monumented 1/7/2003	Monumented By AHTD	County WOODRUFF	Route 64	Job Number: 110423
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,256.4841	
Easting (M)	486,698.1000	
Elevation (M)*		
Northing (SFT)	335,486.4816	
Easting (SFT)	1,596,775.3498	
Elevation (SFT)*		

Convergence Angle	0	33	15.7513288
Scale Factor	0.999952722		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2			
MK # 3			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>BUTLER</td> </tr> <tr> <td>Ref Mon # 2</td> <td>480016</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MEM 2</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	BUTLER	Ref Mon # 2	480016	Ref Mon # 3	MEM 2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	BUTLER										
Ref Mon # 2	480016										
Ref Mon # 3	MEM 2										
Comments											

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 15 4.5689220

Longitude 91 2 50.2795680

Ellipsoid Height (M): 39.817

Geoid Height (M): -27.164

Location Description

TO REACH THE STATION FROM THE CROSS-WOODRUFF COUNTY LINE AND U.S. STATE HIGHWAY 64 GO WEST ON 64 FOR 0.40 MI TO THE STATION ON THE LEFT. THE STATION IS 15.1 METERS SOUTH OF THE CENTER OF THE HIGHWAY, 5.6 METERS SOUTH OF THE EDGE OF THE ASPH., 1.9 METERS NORTH OF THE TOP BANK OF A DITCH AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740005A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 740006	Date Monumented 4/15/2010	Monumented By AHTD	County WOODRUFF	Route 38	Job Number: 110541
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	75,030.2051	
Easting (M)	473,168.3330	
Elevation (M)*	58.992	
Northing (SFT)	246,161.5979	
Easting (SFT)	1,552,386.4392	
Elevation (SFT)*	193.543	

Convergence Angle	0	27	59.2150563
Scale Factor	0.999986346		
Elevation Adjust. Factor	0.9999907423		
Combined Adjust. Factor	0.9999770884		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	107	24.39	80.0
MK # 2	POWER POLE WITH 2 GUYS	324	22.92	75.2
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARBT Ref Mon # 3 MSOX	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 4/2010 USING D 85, B 74, A 74. AFTER LEVELS WERE PROCESSED IT WAS DETERMINED THAT A 74 WAS 0.02 LOWER THAN PUBLISHED BY NGS. (PUBLISHED ELEV = 191.12 & PROCESSED ELEV = 191.1029.)</td> </tr> </table>	Comments	DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 4/2010 USING D 85, B 74, A 74. AFTER LEVELS WERE PROCESSED IT WAS DETERMINED THAT A 74 WAS 0.02 LOWER THAN PUBLISHED BY NGS. (PUBLISHED ELEV = 191.12 & PROCESSED ELEV = 191.1029.)
Comments			
DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 4/2010 USING D 85, B 74, A 74. AFTER LEVELS WERE PROCESSED IT WAS DETERMINED THAT A 74 WAS 0.02 LOWER THAN PUBLISHED BY NGS. (PUBLISHED ELEV = 191.12 & PROCESSED ELEV = 191.1029.)			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 38 AND STATE HIGHWAY 49, NORTH OF BRINKLEY, GO WEST ON 38 FOR 2.8 MILES TO THE MARK ON THE LEFT, 15.6 FEET SOUTH FROM C/L OF HIGHWAY 38 AND 36.7 FEET NORTH OF THE WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "740006 2010" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	740006A
Geodetic Azimuth	359 59 32
Grid Azimuth	359 31 32

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 740006A	Date Monumented 4/5/2010	Monumented By AHTD	County WOODRUFF	Route CR 639	Job Number: 110541
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	75,592.4390	
Easting (M)	473,163.6780	
Elevation (M)*	59.376	
Northing (SFT)	248,006.1936	
Easting (SFT)	1,552,371.1669	
Elevation (SFT)*	194.802	

Convergence Angle	0	27	59.2132715
Scale Factor	0.999985466		
Elevation Adjust. Factor	0.9999906821		
Combined Adjust. Factor	0.9999761482		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	358	15.85	52.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARBT	DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 4/2010 USING D 85, B 74, A 74. AFTER LEVELS WERE PROCESSED IT WAS DETERMINED THAT A 74 WAS 0.02 LOWER THAN PUBLISHED BY NGS. (PUBLISHED ELEV = 191.12 & PROCESSED ELEV = 191.1029.)
Ref Mon # 2: ARLR	
Ref Mon # 3: MSOX	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 740007	Date Monumented 9/1/2011	Monumented By AHTD	County WOODRUFF	Route 64	Job Number: 050264
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	106,336.4797	
Easting (M)	454,671.3698	
Elevation (M)*	67.121	
Northing (SFT)	348,872.2671	
Easting (SFT)	1,491,700.9858	
Elevation (SFT)*	220.213	

Convergence Angle	0	20	59.1073576
Scale Factor	0.999949018		
Elevation Adjust. Factor	0.9999894666		
Combined Adjust. Factor	0.9999384851		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER OF BRIDGE	133	7.41	24.3
MK # 2	SOUTH OF GUARD RAIL	194	3.81	12.5
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.</td> </tr> </table>	Comments	DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.
Comments			
DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.			

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 33N, IN AUGUSTA, GO WEST ON HIGHWAY 64 FOR 2.3 MILES TO THE STATION MARK ON THE RIGHT, NORTH 44.9 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 6 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "740007 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

AZ Mark Station	740007A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 740007A	Date Monumented 9/1/2011	Monumented By AHTD	County WOODRUFF	Route 64	Job Number: 050264
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	106,275.7931	
Easting (M)	454,154.2895	
Elevation (M)*	66.174	
Northing (SFT)	348,673.1645	
Easting (SFT)	1,490,004.5315	
Elevation (SFT)*	217.105	

Convergence Angle	0	20	47.1905953
Scale Factor	0.999949064		
Elevation Adjust. Factor	0.9999896153		
Combined Adjust. Factor	0.9999386798		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.</td> </tr> </table>	Comments	DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.
Comments			
DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750001	Date Monumented 10/28/1991	Monumented By AHTD	County YELL	Route 10	Job Number: 008826, 8927,080495
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	81,465.7364 0.0063
Easting (M)	272,667.3823 0.0062
Elevation (M)*	102.878

Northing (SFT)	267,275.5035
Easting (SFT)	894,576.2368
Elevation (SFT)*	337.526

Convergence Angle	0 48 44.2494528
Scale Factor	0.999977594
Elevation Adjust. Factor	0.9999838553
Combined Adjust. Factor	0.9999614497

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35 3	34.2266904	
Longitude	93 23	45.3542424	
Ellipsoid Height:	73.419		
Grid Northing (Meters)	81,465.7301		
Grid Easting (Meters)	272,667.3910		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CAP IN BRIDGE	120	9.78	32.1
MK # 2	GUARD RAIL POST	103	2.58	8.5
MK # 3	GUARD RAIL POST	326	2.74	9.0

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>CLARPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>Q 299</td> </tr> <tr> <td>Ref Mon # 3</td> <td>RUSSPORT</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	CLARPORT	Ref Mon # 2	Q 299	Ref Mon # 3	RUSSPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> OLD PN: 91750001 ELEVATION ON THIS STATION WAS ARRIVED AT BY CREW S5101.SURFACE ADJUSTMENT FACTOR FOR JOB R80019 = 0.999960444. Elevation updated by three wire levels from 75001, 75001A by B&F during job 080495 in 04/2015. </td> </tr> </table>	Comments	OLD PN: 91750001 ELEVATION ON THIS STATION WAS ARRIVED AT BY CREW S5101.SURFACE ADJUSTMENT FACTOR FOR JOB R80019 = 0.999960444. Elevation updated by three wire levels from 75001, 75001A by B&F during job 080495 in 04/2015.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	CLARPORT										
Ref Mon # 2	Q 299										
Ref Mon # 3	RUSSPORT										
Comments											
OLD PN: 91750001 ELEVATION ON THIS STATION WAS ARRIVED AT BY CREW S5101.SURFACE ADJUSTMENT FACTOR FOR JOB R80019 = 0.999960444. Elevation updated by three wire levels from 75001, 75001A by B&F during job 080495 in 04/2015.											

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID09
Latitude	35 3 34.2268920
Longitude	93 23 45.3545880
Ellipsoid Height (M):	73.276 0.0131
Geoid Height (M):	-29.598

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 27 AND STATE HIGHWAY 10, LOCATED ON THE NORTHWEST SIDE OF DANVILLE, GO EAST ON STATE HIGHWAY 10 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 7.485 METERS SOUTH OF THE CENTER OF HIGHWAY 10 AND 0.48 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "91750001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	750001A
Geodetic Azimuth	348 23 18.01432
Grid Azimuth	349 12 02.27438

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750001A	Date Monumented 5/21/1998	Monumented By AHTD	County YELL	Route 10	Job Number: 008826, 8927,080495
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	81,824.4328 0.0063
Easting (M)	272,598.9684 0.0062
Elevation (M)*	102.866

Northing (SFT)	268,452.3266
Easting (SFT)	894,351.7822
Elevation (SFT)*	337.485

Convergence Angle	0	48	45.9372420
Scale Factor	0.999977084		
Elevation Adjust. Factor	0.9999838573		
Combined Adjust. Factor	0.9999609417		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	3	45.8337960
Longitude	93	23	48.2549676
Ellipsoid Height:	73.387		
Grid Northing (Meters)	81,824.4261		
Grid Easting (Meters)	272,598.9710		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUARD RAIL POST	327	1.65	5.4
MK # 2	GUARD RAIL POST	200	2.71	8.9
MK # 3	GUARD RAIL POST	187	6.40	21.0

<table style="width: 100%;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>CLARPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>Q 299</td> </tr> <tr> <td>Ref Mon # 3</td> <td>RUSSPORT</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	CLARPORT	Ref Mon # 2	Q 299	Ref Mon # 3	RUSSPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012. Elevation updated by three wire levels from 75001, 75001A by B&F during job 080495 in 04/2015.</td> </tr> </table>	Comments	ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012. Elevation updated by three wire levels from 75001, 75001A by B&F during job 080495 in 04/2015.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	CLARPORT										
Ref Mon # 2	Q 299										
Ref Mon # 3	RUSSPORT										
Comments											
ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012. Elevation updated by three wire levels from 75001, 75001A by B&F during job 080495 in 04/2015.											

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750002	Date Monumented 10/28/1991	Monumented By AHTD	County YELL	Route 10	Job Number: 8927
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	81,558.8451	
Easting (M)	276,160.5450	
Elevation (M)*		
Northing (SFT)	267,580.9776	
Easting (SFT)	906,036.7214	
Elevation (SFT)*		

Convergence Angle	0	47	24.0672300
Scale Factor	0.999977391		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	68	9.25	30.4
MK # 2	NBC IN CORNER FENCE POST	220	2.11	6.9
MK # 3	NBC IN FENCE BRACE POST	290	1.41	4.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CLARPORT Ref Mon # 2 RUSSPORT Ref Mon # 3 POWELL	OLD PN: 91750002

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 3 38.8329444

Longitude 93 21 27.5605632

Ellipsoid Height (M): 86.825

Geoid Height (M): -29.966

Location Description

FROM THE JCT. OF HWY. 27 AND HWY. 10 IN DANVILLE, GO EAST ON HWY. 10 2.29 MILES TO THE STATION ON THE LEFT. THE STATION IS 33.5 FEET NORTH OF THE EDGE OF HWY. 10, 7 FEET NORTHEAST OF A FENCE CORNER AND 4 FEET EAST OF A WITNESS POST.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750002A	Date Monumented 10/28/1991	Monumented By AHTD	County YELL	Route 10	Job Number: 8927
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	81,382.7171	
Easting (M)	275,791.3190	
Elevation (M)*		
Northing (SFT)	267,003.1310	
Easting (SFT)	904,825.3524	
Elevation (SFT)*		

Convergence Angle	0	47	32.4897729
Scale Factor	0.999977650		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN FENCE POST	70	4.07	13.4
MK # 2	NBC IN FENCE POST	84	1.43	4.7
MK # 3	NBC IN FENCE POST	223	1.75	5.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CLARPORT Ref Mon # 2 RUSSPORT Ref Mon # 3 POWELL	OLD PN: 91750002A

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 35 3 32.9526540

Longitude 93 21 42.0347952

Ellipsoid Height (M): 86.403

Geoid Height (M): -29.970

Location Description

FROM THE JCT. OF HWY. 27 AND HWY. 10 IN DANVILLE, GO EAST ON HWY. 10 2.04 MILES AND STATION ON THE RIGHT. THE STATION IS 28 FEET SOUTH OF THE EDGE OF HWY. 10, 166 FEET WEST OF A FIELD ENTRANCE AND NEAR THE MAIL BOX OF E. MARTIN AND 1 FEET NORTH OF A WITNESS POST.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750003A	Date Monumented 12/23/1991	Monumented By AHTD	County YELL	Route 10	Job Number: R80025
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	77,081.7260	
Easting (M)	298,401.3360	
Elevation (M)*		
Northing (SFT)	252,892.2961	
Easting (SFT)	979,005.0499	
Elevation (SFT)*		

Convergence Angle	0	38	52.1763658
Scale Factor	0.999983594		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
FROM THE YELL AND PERRY COUNTY LINE, GO WEST ON HWY. 10 0.42 MILES TO THE STATION ON THE LEFT. THE STATION IS 40 FEET SOUTH OF THE CENTERLINE OF HWY. 10, 130 FEET SOUTH OF THE CENTERLINE OF A R/R TRACK, 547 FEET SOUTHWEST OF THE HEADWALL OF A CROSSDRAIN AND 1.80 FEET NORTH OF A WITNESS POST.			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NBC IN 30" POST OAK		313	33.81	110.9
MK # 2	NBC IN 12" RED OAK		356	25.18	82.6
MK # 3	NBC IN 10" ELM		35	31.81	104.4

Area Reference Monuments (used for Processing) Ref Mon # 1 RUSSPORT Ref Mon # 2 JEANPORT Ref Mon # 3 NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Comments</td> </tr> <tr> <td style="padding: 5px;"> OLD PN: 91750003A </td> </tr> </table>	Comments	OLD PN: 91750003A
Comments			
OLD PN: 91750003A			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 750004	Date Monumented 10/19/1994	Monumented By AHTD	County YELL	Route 10	Job Number: 008940
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	76,395.5383	
Easting (M)	293,312.7567	
Elevation (M)*	117.095	
Northing (SFT)	250,641.0286	
Easting (SFT)	962,310.2693	
Elevation (SFT)*	384.169	

Convergence Angle	0	40	48.7859456
Scale Factor	0.999984740		
Elevation Adjust. Factor	0.9999816243		
Combined Adjust. Factor	0.9999663646		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	0	58.4539380
Longitude	93	10	8.2560468
Ellipsoid Height:	87.503		
Grid Northing (Meters)	76,396.0490		
Grid Easting (Meters)	293,312.9990		

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WATER METER	186	7.20	23.6	AZ Mark Station 750004A
MK # 2	TELEPHONE JUNCTION BOX	337	22.30	73.2	Geodetic Azimuth 269 15 48.70567
MK # 3	COMBINATION POLE	173	3.00	9.8	Grid Azimuth 269 56 37.55699

Area Reference Monuments (used for Processing) Ref Mon # 1 RUSSPORT Ref Mon # 2 JEANPORT Ref Mon # 3 91750003	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Cross Reference Job: 8929 & R80025 HORIZONTAL DISTANCE BY E.D.M. BETWEEN 750004 AND 750004A = 443.648 METERS</td> </tr> </table>	Comments	Cross Reference Job: 8929 & R80025 HORIZONTAL DISTANCE BY E.D.M. BETWEEN 750004 AND 750004A = 443.648 METERS
Comments			
Cross Reference Job: 8929 & R80025 HORIZONTAL DISTANCE BY E.D.M. BETWEEN 750004 AND 750004A = 443.648 METERS			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750004A	Date Monumented 10/19/1994	Monumented By AHTD	County YELL	Route 10	Job Number: 008940
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	76,395.6131	
Easting (M)	292,869.3660	
Elevation (M)*	118.741	
Northing (SFT)	250,641.2740	
Easting (SFT)	960,855.5783	
Elevation (SFT)*	389.569	

Convergence Angle	0	40	58.9621247
Scale Factor	0.999984748		
Elevation Adjust. Factor	0.9999813660		
Combined Adjust. Factor	0.9999661143		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	2" FLAG POLE	334	17.35	56.9
MK # 2	TELEPHONE JUNCTION BOX	85	20.40	66.9
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="RUSSPORT"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="JEANPORT"/> Ref Mon # 3 <input style="width: 150px;" type="text" value="91750003"/>	Cross Reference Job: 8929 & R80025 HORIZONTAL DISTANCE BY E.D.M. BETWEEN 750004 AND 750004A = 443.648 METERS

Location Description	
FROM THE JCT. OF HWY. 10 AND HWY. 28 ON THE SOUTH EDGE OF THE TOWN OF OLA, GO EAST ON HWY. 10 FOR 4.828 KM (3.0 MILES) TO THE STATION ON THE LEFT. THE STATION IS IN FRONT OF THE AMERICAN LEGION HUT NO. 56 ON THE SOUTH EDGE OF THE PARKING LOT, 10.10 METERS NORTH OF THE CENTERLINE OF HWY. 10, 19.33 METERS SOUTH OF THE DOOR INTO THE THE LEGION HUT, 14.60 METERS WEST OF A GRAVEL DRIVE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "750004A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750005	Date Monumented 5/21/1998	Monumented By AHTD	County YELL	Route 7	Job Number: 008826,080309,080385
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	78,664.2270	
Easting (M)	288,679.9370	
Elevation (M)*	121.786	
Northing (SFT)	258,084.2181	
Easting (SFT)	947,110.7600	
Elevation (SFT)*	399.561	

Convergence Angle	0	42	35.7573131
Scale Factor	0.999981377		
Elevation Adjust. Factor	0.9999808881		
Combined Adjust. Factor	0.9999622655		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	38	25.70	84.3
MK # 2	WATER METER	5	11.00	36.1
MK # 3	GAS METER	243	18.70	61.4

Area Reference Monuments (used for Processing) Ref Mon # 1 CLARPORT Ref Mon # 2 Q 299 Ref Mon # 3 RUSSPORT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.</td> </tr> </table>	Comments	3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.
Comments			
3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 2 10.2275592
Longitude	93 13 12.0968256
Ellipsoid Height (M):	92.709
Geoid Height (M):	-29.119

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 7, LOCATED IN OLA, GO NORTH ON STATE HIGHWAY 7 FOR 0.53 KM (0.33 MI) TO THE STATION ON THE LEFT ON TOP OF A HILL. THE STATION IS 12.70 METERS NORTH OF THE CENTER OF HIGHWAY 7, 35.0 METERS SOUTHWEST OF THE CENTER OF A PAVED DRIVEWAY AND 0.40 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	750005A
Geodetic Azimuth	65 11 53.983675
Grid Azimuth	65 54 29.63484

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750005A	Date Monumented 5/21/1998	Monumented By AHTD	County YELL	Route 7	Job Number: 008826,080309,080385
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	78,974.7581
Easting (M)	289,374.4060
Elevation (M)*	106.749
Northing (SFT)	259,103.0189
Easting (SFT)	949,389.1970
Elevation (SFT)*	350.224

Convergence Angle	0 42 19.9026513
Scale Factor	0.999980902
Elevation Adjust. Factor	0.9999832480
Combined Adjust. Factor	0.9999641503

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	GAS METER	160	18.10 59.4
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CLARPORT	3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.
Ref Mon # 2 Q 299	
Ref Mon # 3 RUSSPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750006	Date Monumented 5/21/1998	Monumented By AHTD	County YELL	Route 10	Job Number: 008826
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	81,877.6950	
Easting (M)	284,965.6640	
Elevation (M)*	105.055	
Northing (SFT)	268,627.0710	
Easting (SFT)	934,924.8493	
Elevation (SFT)*	344.668	

Convergence Angle	0	44	1.9677286
Scale Factor	0.999976772		
Elevation Adjust. Factor	0.9999835137		
Combined Adjust. Factor	0.9999602861		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEASTERN GATE POST	233	27.68	90.8
MK # 2	0.15 METER CHERRY TREE = TBM 926	110	41.04	134.6
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CLARPORT	
Ref Mon # 2 Q 299	
Ref Mon # 3 RUSSPORT	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 3 52.9784280
Longitude	93 15 40.2503652
Ellipsoid Height (M):	75.814
Geoid Height (M):	-29.241

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 7, LOCATED IN OLA, GO WEST ON STATE HIGHWAY 10 FOR 5.47 KM (3.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 27.708 METERS SOUTHWEST OF THE CENTER OF THE RAIL ROAD, 10.361 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750006 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750006A	Date Monumented 5/21/1998	Monumented By AHTD	County YELL	Route 10	Job Number: 008826
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	81,395.5940	
Easting (M)	285,317.5390	
Elevation (M)*	101.840	
Northing (SFT)	267,045.3780	
Easting (SFT)	936,079.2925	
Elevation (SFT)*	334.120	

Convergence Angle	0	43	53.7458019
Scale Factor	0.999977451		
Elevation Adjust. Factor	0.9999840182		
Combined Adjust. Factor	0.9999614696		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST END OF A 0.61 METER RCP	324	84.10	275.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CLARPORT	
Ref Mon # 2 Q 299	
Ref Mon # 3 RUSSPORT	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 3 37.4814504
Longitude	93 15 26.1208944
Ellipsoid Height (M):	72.612
Geoid Height (M):	-29.228

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 7, LOCATED IN OLA, GO WEST ON STATE HIGHWAY 10 FOR 4.83 KM (3.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 91.10 METERS SOUTHEAST OF THE CENTER OF A DRIVEWAY, 11.400 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 10 AND 1.53 METERS NORTHEAST OF A WITNESS POST SET IN A WEB WIRE FENCELINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750006A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	750006
Geodetic Azimuth	323 08 36.79705
Grid Azimuth	323 52 30.59541

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750007	Date Monumented 5/21/1998	Monumented By AHTD	County YELL	Route 10	Job Number: 008826
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 82,452.9401		Latitude 35 4 9.3283248
Easting (M) 279,523.9170		Longitude 93 19 15.3081732
Elevation (M)* 104.366		Ellipsoid Height (M): 75.028
		Geoid Height (M): -29.338

Northing (SFT) 270,514.3543		
Easting (SFT) 917,071.3844		
Elevation (SFT)* 342.407		

Convergence Angle 0 46 7.1096795		
Scale Factor 0.999976062		
Elevation Adjust. Factor 0.9999836218		
Combined Adjust. Factor 0.9999596842		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 7, LOCATED IN OLA, GO WEST ON STATE HIGHWAY 10 FOR 11.10 KM (6.90 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.74 METERS SOUTH OF THE CENTER OF THE RAIL ROAD, 14.70 METERS NORTH THE CENTER OF STATE HIGHWAY 10, 7.377 METERS EAST OF THE CENTER OF A DRIVE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "750007 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	GAS METER	81	26.60	87.3	AZ Mark Station 750007A
MK # 2	POWER POLE	81	6.40	21.0	Geodetic Azimuth 83 09 07.95190
MK # 3					Grid Azimuth 83 55 14.98803

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 CLARPORT</p> <p>Ref Mon # 2 Q 299</p> <p>Ref Mon # 3 RUSSPORT</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750007A	Date Monumented 5/21/1998	Monumented By AHTD	County YELL	Route 10	Job Number: 008826
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	82,507.1780	
Easting (M)	280,033.1870	
Elevation (M)*	114.228	
Northing (SFT)	270,692.2998	
Easting (SFT)	918,742.2143	
Elevation (SFT)*	374.763	

Convergence Angle	0	45	55.4307378
Scale Factor	0.999975976		
Elevation Adjust. Factor	0.9999820742		
Combined Adjust. Factor	0.9999580507		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE = TBM 916	268	8.61	28.2
MK # 2	GAS METER	82	34.87	114.4
MK # 3	WATER METER	67	9.11	29.9

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>CLARPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>Q 299</td> </tr> <tr> <td>Ref Mon # 3</td> <td>RUSSPORT</td> </tr> </table>	Ref Mon # 1	CLARPORT	Ref Mon # 2	Q 299	Ref Mon # 3	RUSSPORT	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	CLARPORT						
Ref Mon # 2	Q 299						
Ref Mon # 3	RUSSPORT						

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 4 11.3094264
Longitude	93 18 55.2377844
Ellipsoid Height (M):	84.898
Geoid Height (M):	-29.330

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 7, LOCATED IN OLA, GO WEST ON STATE HIGHWAY 10 FOR 10.62 KM (6.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.228 METERS SOUTH OF THE CENTER OF THE RAIL ROAD, 10.86 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750007A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	750007
Geodetic Azimuth	263 09 19.48375
Grid Azimuth	263 55 14.98803

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750008	Date Monumented 5/21/1998	Monumented By AHTD	County YELL	Route 10	Job Number: 008826
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	81,544.4741	
Easting (M)	276,131.0350	
Elevation (M)*	116.896	
Northing (SFT)	267,533.8288	
Easting (SFT)	905,939.9040	
Elevation (SFT)*	383.516	

Convergence Angle	0	47	24.7403136
Scale Factor	0.999977412		
Elevation Adjust. Factor	0.9999816555		
Combined Adjust. Factor	0.9999590680		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	56	31.86	104.5
MK # 2	R/W MARKER AT CORNER OF A FENCE	117	29.16	95.7
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CLARPORT	
Ref Mon # 2 Q 299	
Ref Mon # 3 RUSSPORT	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 3 38.3534424
Longitude	93 21 28.7172648
Ellipsoid Height (M):	87.500
Geoid Height (M):	-29.396

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10, STATE HIGHWAY 27 AND STATE HIGHWAY 80, LOCATED IN DANVILLE, GO EAST ON STATE HIGHWAY 10 FOR 3.54 KM (2.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.42 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.86 METERS SOUTH OF A WITNESS POST SET IN A BARBED WIRE FENCELINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750008 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750008A	Date Monumented 5/21/1998	Monumented By AHTD	County YELL	Route 10	Job Number: 008826
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	81,715.7131	
Easting (M)	276,801.2100	
Elevation (M)*	108.797	
Northing (SFT)	268,095.6354	
Easting (SFT)	908,138.6365	
Elevation (SFT)*	356.945	

Convergence Angle	0	47	9.4051379
Scale Factor	0.999977155		
Elevation Adjust. Factor	0.9999829265		
Combined Adjust. Factor	0.9999600819		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10, STATE HIGHWAY 27 AND STATE HIGHWAY 80, LOCATED IN DANVILLE, GO EAST ON STATE HIGHWAY 10 FOR 4.19 KM (2.60 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.0 METERS SOUTH OF THE CENTER OF THE RAIL ROAD, 17.52 METERS EAST OF THE CENTER OF A PAVED ENTRANCE, 11.95 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750008A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 CLARPORT</p> <p>Ref Mon # 2 Q 299</p> <p>Ref Mon # 3 RUSSPORT</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750009	Date Monumented 8/10/1998	Monumented By AHTD	County YELL	Route 10	Job Number: R80019
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	89,861.4511	
Easting (M)	247,269.4080	
Elevation (M)*	185.205	
Northing (SFT)	294,820.4442	
Easting (SFT)	811,249.7161	
Elevation (SFT)*	607.627	

Convergence Angle	0	58	30.7033013
Scale Factor	0.999966942		
Elevation Adjust. Factor	0.9999709361		
Combined Adjust. Factor	0.9999378791		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	150	30.11	98.8
MK # 2	0.508 METER PECAN TREE	87	30.31	99.4
MK # 3	CHISELED SQUARE IN HEADWALL = TBM 9	261	45.22	148.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Q 299 Ref Mon # 2 OZARPORT Ref Mon # 3 91750001	ELEVATION ON THIS STATION WAS ESTABLISHED BY 3 WIRE LEVELING FROM USC&GS BENCH MARK J 46 1934.

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 309 SOUTH, IN WAVELAND, GO WEST ON STATE HIGHWAY 10 FOR 4.35 KM (2.7 MI) TO THE STATION ON THE RIGHT. THE STATION IS 32.394 METERS EAST OF THE CENTER OF A ROAD TO A CHICKEN HOUSE, 11.237 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750009 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750009A	Date Monumented 8/10/1998	Monumented By AHTD	County YELL	Route 10	Job Number: R80019
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	89,684.3391	
Easting (M)	247,836.0520	
Elevation (M)*	175.869	
Northing (SFT)	294,239.3692	
Easting (SFT)	813,108.7806	
Elevation (SFT)*	576.997	

Convergence Angle	0	58	17.6117566
Scale Factor	0.999967149		
Elevation Adjust. Factor	0.9999724012		
Combined Adjust. Factor	0.9999395511		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 309 SOUTH, IN WAVELAND, GO WEST ON STATE HIGHWAY 10 FOR 3.78 KM (2.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.50 METERS WEST OF THE CENTER OF A PASTURE ENTRANCE, 8.65 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10 AND 1.93 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750009A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.				

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	IRON PIPE GATE POST	112	9.06	29.7		
MK # 2	CROSS TIE GATE POST	53	25.15	82.5		
MK # 3						

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	Q 299	
Ref Mon # 2	OZARPORT	
Ref Mon # 3	91750001	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750010	Date Monumented 8/10/1998	Monumented By AHTD	County YELL	Route 10	Job Number: R80019
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	87,662.3571
Easting (M)	253,678.2940
Elevation (M)*	116.542
Northing (SFT)	287,605.5833
Easting (SFT)	832,276.2029
Elevation (SFT)*	382.355

Convergence Angle	0	56	2.5897443
Scale Factor	0.999969576		
Elevation Adjust. Factor	0.9999817111		
Combined Adjust. Factor	0.9999512877		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	190	13.92	45.7
MK # 2	WOODEN GATE POST	101	6.93	22.7
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Q 299
Ref Mon # 2	OZARPORT
Ref Mon # 3	91750001

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 6 45.8948952
Longitude	93 36 18.6471612
Ellipsoid Height (M):	86.849
Geoid Height (M):	-29.693

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 309 SOUTH, IN WAVELAND, GO EAST ON STATE HIGHWAY 10 FOR 2.98 KM (1.85 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.771 METERS EAST OF THE CENTER OF A DRIVEWAY, 8.563 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10, 8.454 METERS WEST OF THE CENTER OF A PASTURE ENTRANCE AND 3.11 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750010 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750010A	Date Monumented 8/10/1998	Monumented By AHTD	County YELL	Route 10	Job Number: R80019
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 87,569.2371		Latitude 35 6 42.5714688
Easting (M) 253,108.3750		Longitude 93 36 41.0906412
Elevation (M)* 119.177		Ellipsoid Height (M): 89.477
Northing (SFT) 287,300.0721		Geoid Height (M): -29.700
Easting (SFT) 830,406.3936		
Elevation (SFT)* 391.000		

Convergence Angle	0	56	15.6495858
Scale Factor	0.999969708		
Elevation Adjust. Factor	0.9999812976		
Combined Adjust. Factor	0.9999510062		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	54	4.36	14.3
MK # 2	COMBINATION POLE	255	16.01	52.5
MK # 3	TELEPHONE JUNCTION BOX	127	24.31	79.7

Area Reference Monuments (used for Processing) Ref Mon # 1 Q 299 Ref Mon # 2 OZARPORT Ref Mon # 3 91750001	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750011	Date Monumented 8/10/1998	Monumented By AHTD	County YELL	Route 10	Job Number: R80019
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	87,248.6391
Easting (M)	260,635.5740
Elevation (M)*	114.504
Northing (SFT)	286,248.2434
Easting (SFT)	855,101.8790
Elevation (SFT)*	375.669

Convergence Angle	0	53	22.5846176
Scale Factor	0.999969967		
Elevation Adjust. Factor	0.9999820309		
Combined Adjust. Factor	0.9999519985		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SW CORNER OF A PAVILLION CONCRETE S	72	22.86	75.0
MK # 2	TELEPHONE JUNCTION BOX	189	28.85	94.6
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>Q 299</td> </tr> <tr> <td>Ref Mon # 2</td> <td>OZARPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>91750001</td> </tr> </table>	Ref Mon # 1	Q 299	Ref Mon # 2	OZARPORT	Ref Mon # 3	91750001	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	Q 299							
Ref Mon # 2	OZARPORT							
Ref Mon # 3	91750001							
Comments								

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 6 36.0641376
Longitude	93 31 43.6766052
Ellipsoid Height (M):	84.908
Geoid Height (M):	-29.631

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 309 NORTH, IN HAVANNA, GO EAST ON STATE HIGHWAY 10 FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF FERGUSON STREET AND THE STATION ON THE LEFT. THE STATION IS 42.961 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10, 11.224 METERS EAST OF THE CENTER OF FERGUSON STREET AND 0.39 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A SANDARD 64mm CAP STAMPED "750011 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	750011A
Geodetic Azimuth	114 36 30.73793
Grid Azimuth	115 29 53.24950

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750011A	Date Monumented 8/10/1998	Monumented By AHTD	County YELL	Route 10	Job Number: R80019
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	86,989.5641
Easting (M)	261,178.7810
Elevation (M)*	114.221
Northing (SFT)	285,398.2616
Easting (SFT)	856,884.0507
Elevation (SFT)*	374.740

Convergence Angle	0	53	10.0116874
Scale Factor	0.999970292		
Elevation Adjust. Factor	0.9999820753		
Combined Adjust. Factor	0.9999523679		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	0.305 METER PINE TREE	100	23.08	75.7
MK # 2	LIGHT POLE	158	30.21	99.1
MK # 3	COMBINATION POLE	291	42.52	139.5

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>Q 299</td> </tr> <tr> <td>Ref Mon # 2</td> <td>OZARPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>91750001</td> </tr> </table>	Ref Mon # 1	Q 299	Ref Mon # 2	OZARPORT	Ref Mon # 3	91750001	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	Q 299						
Ref Mon # 2	OZARPORT						
Ref Mon # 3	91750001						

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 6 27.9312552
Longitude	93 31 22.0698876
Ellipsoid Height (M):	84.625
Geoid Height (M):	-29.628

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHTWAY 309 NORTH, IN HAVANNA, GO EAST ON STATE HIGHWAY 10 FOR 0.72 KM (0.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.431 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750011A 1998" SET ON TOP OF AN IRON ROAD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750012	Date Monumented 8/10/1998	Monumented By AHTD	County YELL	Route 10	Job Number: R80019
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	85,893.7961	
Easting (M)	265,887.7790	
Elevation (M)*	113.860	
Northing (SFT)	281,803.2294	
Easting (SFT)	872,333.4883	
Elevation (SFT)*	373.556	

Convergence Angle	0	51	21.4425439
Scale Factor	0.999971634		
Elevation Adjust. Factor	0.9999821320		
Combined Adjust. Factor	0.9999537665		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	IRON PIPE FENCE POST	103	30.25	99.3
MK # 2	IRON PIPE FENCE POST	355	1.57	5.2
MK # 3	IRON PIPE FENCE POST	286	31.21	102.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Q 299 Ref Mon # 2 OZARPORT Ref Mon # 3 91750001	

Vertical Determined By: LEVEL - Unkown Quality	
Elevation Datum: NAVD 88	
Geoid Datum:	
Latitude	35 5 54.7004400
Longitude	93 28 15.4926300
Ellipsoid Height (M):	84.313
Geoid Height (M):	-29.580

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 307 NORTH, IN BELLEVILLE, GO WEST ON STATE HIGHWAY 10 FOR 2.09 KM (1.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 89.395 METERS WEST OF THE ENTRANCE TO A BASEBALL FIELD, 10.669 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 1.33 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750012 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750012A	Date Monumented 8/10/1998	Monumented By AHTD	County YELL	Route 10	Job Number: R80019
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	85,717.1390				
Easting (M)	266,373.7630				
Elevation (M)*	114.586				
Northing (SFT)	281,223.6469				
Easting (SFT)	873,927.9208				
Elevation (SFT)*	375.938				

Convergence Angle	0	51	10.2175261
Scale Factor	0.999971859		
Elevation Adjust. Factor	0.9999820180		
Combined Adjust. Factor	0.9999538775		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF A CONCRETE HEADWALL	85	20.94	68.7
MK # 2	COMBINATION POLE	283	19.80	65.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Q 299
Ref Mon # 2	OZARPORT
Ref Mon # 3	91750001

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 5 49.2036792

Longitude 93 27 56.2023144

Ellipsoid Height (M): 85.015

Geoid Height (M): -29.575

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 307 NORTH, IN BELLEVILLE, GO WEST ON STATE HIGHWAY 10 FOR 1.61 KM (1.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.398 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY, 11.496 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750012A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750013	Date Monumented 8/10/1998	Monumented By AHTD	County YELL	Route 10	Job Number: R80019
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	84,378.5431	
Easting (M)	270,273.0850	
Elevation (M)*	118.758	
Northing (SFT)	276,831.9368	
Easting (SFT)	886,720.9464	
Elevation (SFT)*	389.625	

Convergence Angle	0	49	40.1944028
Scale Factor	0.999973580		
Elevation Adjust. Factor	0.9999813633		
Combined Adjust. Factor	0.9999549438		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	IRON PIPE FENCE POST	282	21.95	72.0
MK # 2	RUNWAY LIGHT	14	23.75	77.9
MK # 3	CENTER OF A CONCRETE HEADWALL	66	22.00	72.2

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>Q 299</td> </tr> <tr> <td>Ref Mon # 2</td> <td>OZARPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>91750001</td> </tr> </table>	Ref Mon # 1	Q 299	Ref Mon # 2	OZARPORT	Ref Mon # 3	91750001	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	Q 299						
Ref Mon # 2	OZARPORT						
Ref Mon # 3	91750001						

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 5 7.6263972
Longitude	93 25 21.4965948
Ellipsoid Height (M):	89.239
Geoid Height (M):	-29.519

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 307 NORTH, IN BELLEVILLE, GO EAST ON STATE HIGHWAY 10 FOR 1.45 KM (0.90 MI) TO THE BELLEVILLE DANVILLE AIRPORT ENTRANCE ON THE LEFT, GO LEFT NORTH PASS THOUGH A GATE ACROSS APRON AND CONNECTOR FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF THE RUNWAY, GO RIGHT EAST ON RUNWAY FOR 0.80 KM (0.50 MI) TO THE STATION ON THE RIGHT. THE STATION IS 38.155 METERS SOUTH OF THE CENTER OF THE RUNWAY, 23.482 METERS EAST OF THE CENTER OF A TURN AROUND AND 1.06 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDRD 64mm CAP STAMPED "750013 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	750013A
Geodetic Azimuth	285 42 59.53403
Grid Azimuth	286 32 39.78846

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750013A	Date Monumented 8/10/1998	Monumented By AHTD	County YELL	Route 10	Job Number: R80019
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	84,505.2921	
Easting (M)	269,846.3990	
Elevation (M)*	115.352	
Northing (SFT)	277,247.7792	
Easting (SFT)	885,321.0607	
Elevation (SFT)*	378.451	

Convergence Angle	0	49	50.0374253
Scale Factor	0.999973417		
Elevation Adjust. Factor	0.9999818978		
Combined Adjust. Factor	0.9999553153		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RUNWAY LIGHT	18	23.05	75.6
MK # 2	IRON PIPE FENCE POST	108	21.16	69.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Q 299	
Ref Mon # 2 OZARPORT	
Ref Mon # 3 91750001	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 5 11.5386216
Longitude	93 25 38.4119364
Ellipsoid Height (M):	85.826
Geoid Height (M):	-29.526

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 307 NORTH, IN BELLEVILLE, GO EAST ON STATE HIGHWAY 10 FOR 1.45 KM (0.90 MI) TO THE BELLEVILLE DANVILLE AIRPORT ENTRANCE ON THE LEFT, GO LEFT NORTH PASS THROUGH A GATE, ACROSS APRON AND CONNECTOR FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF THE RUNWAY, GO RIGHT EAST ON RUNWAY FOR 0.40 KM (0.25 MI) TO THE STATION ON THE RIGHT. THE STATION IS 37.499 METERS SOUTH OF THE CENTER OF THE RUNWAY AND 1.60 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "750013A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750014	Date Monumented 11/8/2004	Monumented By AHTD	County YELL	Route 60	Job Number: 080286
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	71,320.5621	
Easting (M)	287,164.3790	
Elevation (M)*		
Northing (SFT)	233,990.8775	
Easting (SFT)	942,138.4668	
Elevation (SFT)*		

Convergence Angle	0	43	8.4331629
Scale Factor	0.999993032		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CULVERT	130	15.50	50.9
MK # 2	TELEPHONE RISER	112	32.80	107.6
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>RUSSPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>DQUA</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD LROC</td> </tr> </table>	Ref Mon # 1	RUSSPORT	Ref Mon # 2	DQUA	Ref Mon # 3	AHTD LROC	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	RUSSPORT						
Ref Mon # 2	DQUA						
Ref Mon # 3	AHTD LROC						

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 58 11.3293776
Longitude	93 14 8.2506300
Ellipsoid Height (M):	88.800
Geoid Height (M):	-29.004

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 60 AND STATE HIGHWAY 28, IN PLAINVIEW, GO EAST ON HIGHWAY 60 3.8 MILES TO THE STATION MARK ON THE LEFT, WEST 18.10 METERS OF A DIRT DRIVE, 17.90 METERS NORTH OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750014 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	750014A
Geodetic Azimuth	283 07 21
Grid Azimuth	283 50 30

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750014A	Date Monumented 11/8/2004	Monumented By AHTD	County YELL	Route 60	Job Number: 080286
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	71,439.7380	
Easting (M)	286,680.6990	
Elevation (M)*		
Northing (SFT)	234,381.8738	
Easting (SFT)	940,551.5933	
Elevation (SFT)*		

Convergence Angle	0	43	19.5619963
Scale Factor	0.999992843		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	115	17.30	56.8
MK # 2	POWER POLE	276	6.60	21.7
MK # 3	WEST END OF CULVERT	85	16.65	54.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT	
Ref Mon # 2 DQUA	
Ref Mon # 3 AHTD LROC	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 58 14.9989728
Longitude	93 14 27.3756516
Ellipsoid Height (M):	93.251
Geoid Height (M):	-29.018

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 60 AND STATE HIGHWAY 28, IN PLAINVIEW, GO EAST ON HIGHWAY 60 3.5 MILES TO THE STATION MARK ON THE RIGHT, 12.65 METERS SOUTH OF THE CENTERLINE OF THE HIGHWAY AND NORTH 2.20 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750014A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750015	Date Monumented 11/21/2006	Monumented By AHTD	County Yell	Route 7	Job Number: 080309,fa7519
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	83,598.4351	
Easting (M)	291,356.7950	
Elevation (M)*	95.190	
Northing (SFT)	274,272.5325	
Easting (SFT)	955,893.0849	
Elevation (SFT)*	312.301	

Convergence Angle	0	41	35.6769457
Scale Factor	0.999974263		
Elevation Adjust. Factor	0.9999850619		
Combined Adjust. Factor	0.9999593253		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach the station from the junction of highways 7 and 10 in Ola go north on hwy-7 for 3.90 miles to the station on the right next to the right of way fence. 69.50 feet southeast of the center of hwy-7 and 3.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "750015 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARLR</p> <p>Ref Mon # 2 Russport</p> <p>Ref Mon # 3 750005</p>	<p style="text-align: center;">Comments</p> <p>3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750015A	Date Monumented 11/21/2006	Monumented By AHTD	County Yell	Route 7	Job Number: 080309
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	83,962.1281	
Easting (M)	291,776.9340	
Elevation (M)*	97.246	
Northing (SFT)	275,465.7486	
Easting (SFT)	957,271.4910	
Elevation (SFT)*	319.047	

Convergence Angle	0	41	26.1274308
Scale Factor	0.999973759		
Elevation Adjust. Factor	0.9999847392		
Combined Adjust. Factor	0.9999584986		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Power pole with 2 guy wires	294	29.84	97.9	
MK # 2	Wooden brace post	231	30.66	100.6	
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 Russport Ref Mon # 3 750005	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.</td> </tr> </table>	Comments	3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.
Comments			
3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.			

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 5 3.3609804
Longitude	93 11 12.4371132
Ellipsoid Height (M):	68.226
Geoid Height (M):	-29.136

Location Description
To reach the station from the junction of highways 7 and 10 in Ola go north on hwy-7 for 4.20 miles to the station on the left next to the right of way fence. 53.0 feet northwest of the center of hwy-7 and 1.90 feet southeast of a witness post. The station mark is a 2 1/2 inch cap stamped "750015A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750016	Date Monumented 11/21/2006	Monumented By AHTD	County Yell	Route 154	Job Number: 080309,080377,fa7519
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	87,090.1161	
Easting (M)	293,387.1510	
Elevation (M)*	105.818	
Northing (SFT)	285,728.1559	
Easting (SFT)	962,554.3446	
Elevation (SFT)*	347.173	

Convergence Angle	0	40	49.9940967
Scale Factor	0.999969593		
Elevation Adjust. Factor	0.9999833939		
Combined Adjust. Factor	0.9999529874		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	72	16.76	55.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 Russport Ref Mon # 3 750005	3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 6 45.4827456
Longitude	93 10 10.3415844
Ellipsoid Height (M):	76.826
Geoid Height (M):	-29.131

Location Description
To reach the station from the junction of highways 7 and 154 in Centerville go west on hwy-154 for 177 feet to the station on the left in an old parking area. 45.6 feet south of the center of hwy-154 and 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "750016 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750016A	Date Monumented 11/21/2006	Monumented By AHTD	County Yell	Route 154	Job Number: 080309,080377
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	87,130.4021	
Easting (M)	292,866.9270	
Elevation (M)*	105.902	
Northing (SFT)	285,860.3276	
Easting (SFT)	960,847.5763	
Elevation (SFT)*	347.446	

Convergence Angle	0	41	1.9589104
Scale Factor	0.999969549		
Elevation Adjust. Factor	0.9999833808		
Combined Adjust. Factor	0.9999529304		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fire hydrant	337	5.15	16.9
MK # 2	Flag pole	177	23.98	78.7
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 Russport Ref Mon # 3 750005	3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 6 46.5889428
Longitude	93 10 30.9032472
Ellipsoid Height (M):	76.890
Geoid Height (M):	-29.141

Location Description
To reach the station from the junction of highways 7 and 154 in Centerville go west on hwy-154 for 0.30 miles to the station on the right. 35.1 feet north of the center of hwy-154, 32.4 feet east of a driveway and 1.60 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "750016A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750017	Date Monumented 10/12/2010	Monumented By AHTD	County YELL	Route 7	Job Number: 080377
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	91,093.6591	
Easting (M)	294,070.6740	
Elevation (M)*	112.862	
Northing (SFT)	298,863.1132	
Easting (SFT)	964,796.8696	
Elevation (SFT)*	370.280	

Convergence Angle	0	40	35.3742303
Scale Factor	0.999964634		
Elevation Adjust. Factor	0.9999822887		
Combined Adjust. Factor	0.9999469233		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARLR
Ref Mon # 2	ARFY
Ref Mon # 3	ARHP

Comments
DIGITAL 3 WIRE LEVELS FROM 750016A TO E 253 BY CREW S5110 ON 10-2010. 750016A ELEVATION BY S5110 USING 3 WIRE LEVEL FROM E 47.

Location Description	
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 154 AND STATE HIGHWAY 7, IN CENTERVILLE, GO NORTH ON HIGHWAY 7 2.5 MILES TO THE STATION MARK ON THE LEFT, WEST OF THE CENTERLINE OF THE HIGHWAY 21.6 FEET AND EAST 22.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "750017 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 8 55.6519632
Longitude	93 9 45.2171844
Ellipsoid Height (M):	83.720
Geoid Height (M):	-29.141

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750017A	Date Monumented 10/12/2010	Monumented By AHTD	County YELL	Route 7	Job Number: 080377
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	90,507.9292	
Easting (M)	293,866.7570	
Elevation (M)*	118.590	
Northing (SFT)	296,941.4311	
Easting (SFT)	964,127.8519	
Elevation (SFT)*	389.074	

Convergence Angle	0	40	39.9026747
Scale Factor	0.999965336		
Elevation Adjust. Factor	0.9999813897		
Combined Adjust. Factor	0.9999467263		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	FENCE CORNER	29	34.63	113.6	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARLR	DIGITAL 3 WIRE LEVELS FROM 750016A TO E 253 BY CREW S5110 ON 10-2010. 750016A ELEVATION BY S5110 USING 3 WIRE LEVEL FROM E 47.
Ref Mon # 2: ARFY	
Ref Mon # 3: ARHP	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750018	Date Monumented 10/3/2011	Monumented By AHTD	County YELL	Route 27	Job Number: 080428,080495
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	94,979.4540 0.0056
Easting (M)	286,528.6793 0.0055
Elevation (M)*	144.971

Northing (SFT)	311,611.7587	
Easting (SFT)	940,052.8420	
Elevation (SFT)*	475.627	

Convergence Angle	0	43	29.8813282
Scale Factor	0.999960307		
Elevation Adjust. Factor	0.9999772498		
Combined Adjust. Factor	0.9999375577		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	10	58.7443440
Longitude	93	14	45.1095360
Ellipsoid Height:	115.600		
Grid Northing (Meters)	94,979.4640		
Grid Easting (Meters)	286,528.6794		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 27 SOUTH, IN DARDANELLE, GO SOUTH ON HIGHWAY 27 5.25 MILES TO THE STATION ON THE LEFT, SOUTHEAST 29.3 FEET OF THE CENTERLINE OF HIGHWAY 27 AND NORTHWEST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "750018 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	28	12.64	41.5
MK # 2				
MK # 3				

AZ Mark Station	750018A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012. Elevations updated from BM 919 and BM 920 from Job 080377 by B&F during Job 080495 in 04/2015.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750018A	Date Monumented 10/3/2011	Monumented By AHTD	County YELL	Route 27	Job Number: 080428
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	94,796.6531	
Easting (M)	286,001.3667	
Elevation (M)*	139.155	
Northing (SFT)	311,012.0194	
Easting (SFT)	938,322.8172	
Elevation (SFT)*	456.546	

Convergence Angle	0	43	41.9549623
Scale Factor	0.999960515		
Elevation Adjust. Factor	0.9999781624		
Combined Adjust. Factor	0.9999386783		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	340	6.43	21.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012.</td> </tr> </table>	Comments	ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012.
Comments			
ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 27 SOUTH, IN DARDANELLE, GO SOUTH ON HIGHWAY 27 5.55 MILES TO THE STATION ON THE RIGHT, EAST 40.8 FEET OF THE CENTERLINE OF SLO FORK ROAD, NORTH 23.1 FEET OF THE CENTERLINE OF HIGHWAY 27 AND SOUTH 15.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "750018A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.	

AZ Mark Station	750018
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750019	Date Monumented 10/3/2011	Monumented By AHTD	County YELL	Route 27	Job Number: 080428,080495
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	93,074.1862	
Easting (M)	282,967.8676	
Elevation (M)*	115.328	
Northing (SFT)	305,360.8926	
Easting (SFT)	928,370.4123	
Elevation (SFT)*	378.373	

Convergence Angle	0	44	51.2004022
Scale Factor	0.999962488		
Elevation Adjust. Factor	0.9999819016		
Combined Adjust. Factor	0.9999443902		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						750019A
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012. Elevations updated from BM 919 and BM 920 from Job 080377 by B&F during Job 080495 in 04/2015.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750019A	Date Monumented 10/3/2011	Monumented By AHTD	County YELL	Route 27	Job Number: 080428,080495
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	92,834.6996	
Easting (M)	282,472.1652	
Elevation (M)*	109.711	
Northing (SFT)	304,575.1769	
Easting (SFT)	926,744.0953	
Elevation (SFT)*	359.942	

Convergence Angle	0	45	2.5258235
Scale Factor	0.999962770		
Elevation Adjust. Factor	0.9999827831		
Combined Adjust. Factor	0.9999455538		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TELEPHONE BOX	265	11.34	37.2	750019
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750020	Date Monumented 10/3/2011	Monumented By AHTD	County YELL	Route 27	Job Number: 080428,080495
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	89,925.9204	0.0055			
Easting (M)	278,552.8321	0.0055			
Elevation (M)*	122.292				

Northing (SFT)	295,031.9572				
Easting (SFT)	913,885.4166				
Elevation (SFT)*	401.220				

Convergence Angle	0	46	31.7339275
Scale Factor	0.999966276		
Elevation Adjust. Factor	0.9999808087		
Combined Adjust. Factor	0.9999470854		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)			
Latitude	35	8	11.3817840	
Longitude	93	19	57.6248160	
Ellipsoid Height:	92.794			
Grid Northing (Meters)	89,925.9336			
Grid Easting (Meters)	278,552.8423			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 27 SOUTH, IN DARDANELLE, GO SOUTH ON HIGHWAY 27 11.10 MILES TO THE STATION ON THE LEFT. NORTHEAST 67.6 FEET OF THE CENTER OF A GRAVEL DRIVEWAY, NORTHWEST 22.0 FEET OF THE CENTERLINE OF HIGHWAY 27 AND SOUTHEAST 19.2 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "750020 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	155	5.70	18.7	750020A
MK # 2	TELEPHONE BOX	80	15.97	52.4	
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <p>ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012. Elevation updated by three wire levels from 75001, 75001A by B&F during job 080495 in 04/2015.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750020A	Date Monumented 10/3/2011	Monumented By AHTD	County YELL	Route 27	Job Number: 080428,080495
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	89,815.8078	0.0061
Easting (M)	278,203.2155	0.0062
Elevation (M)*	122.396	

Northing (SFT)	294,670.6961	
Easting (SFT)	912,738.3829	
Elevation (SFT)*	401.561	

Convergence Angle	0 46	39.7353036
Scale Factor	0.999966416	
Elevation Adjust. Factor	0.9999807924	
Combined Adjust. Factor	0.9999472091	

SUPERCEDED CONTROL		
Horizontal Datum	NAD 83 (1997)	
Latitude	35 8	7.6549920
Longitude	93 20	11.3404920
Ellipsoid Height:	92.895	
Grid Northing (Meters)	89,815.8035	
Grid Easting (Meters)	278,204.1059	

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	TELEPHONE BOX	52	25.42	83.4	750020
MK # 2	TELEPHONE BOX	241	36.58	120.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012. Elevation updated by three wire levels from 75001, 75001A by B&F during job 080495 in 04/2015.04/2015.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750021	Date Monumented 10/1/2014	Monumented By AHTD	County YELL	Route 154	Job Number: 080495
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	85,634.0170	0.0044	
Easting (M)	275,536.9261	0.0044	
Elevation (M)*	118.714		
Northing (SFT)	280,950.9374		
Easting (SFT)	903,990.7317		
Elevation (SFT)*	389.481		

Convergence Angle	0	47	39.6847373
Scale Factor	0.999971794		
Elevation Adjust. Factor	0.9999813702		
Combined Adjust. Factor	0.9999531648		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	285	21.00	68.9	750021A
MK # 2	POWER POLE	100	28.00	91.9	
MK # 3	METAL FENCE POST	350	1.80	5.9	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	Elevation established by three wire levels from 75001, 75001A, by B&F during job 080495 in 04/2015.
Ref Mon # 2 P777	
Ref Mon # 3 SAL5	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750021A	Date Monumented 10/1/2014	Monumented By AHTD	County YELL	Route 27	Job Number: 080495
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	85,890.3636	0.0043			
Easting (M)	278,151.1375	0.0043			
Elevation (M)*	113.785				
Northing (SFT)	281,791.9679				
Easting (SFT)	912,567.5236				
Elevation (SFT)*	373.308				

Convergence Angle	0	46	39.7075679
Scale Factor	0.999971408		
Elevation Adjust. Factor	0.9999821438		
Combined Adjust. Factor	0.9999535523		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	235	20.00	65.6
MK # 2	POWER POLE	50	40.80	133.9
MK # 3	TELEPHONE BOX	165	23.50	77.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 P777 Ref Mon # 3 SAL5	Elevation established by three wire levels from 75001, 75001A, by B&F during job 080495 in 04/2015.

Location Description

TO REACH FROM THE JUCTION OF HWY 27 AND HWY 154 NEAR DANVILLE. GO NORTH ON HWY 27 FOR 0.2 MILES TO THE STATION ON THE LEFT. THE STATION IS 3.4 FT. EAST OF A WITNESS POST, AND 36 FT. WEST OF THE CENTERLINE OF HWY 27. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "750021A 2014" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750022	Date Monumented 10/1/2014	Monumented By AHTD	County YELL	Route 27	Job Number: 080495
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	97,582.3351	0.0040			
Easting (M)	290,499.8574	0.0039			
Elevation (M)*	126.207				

Northing (SFT)	320,151.3777				
Easting (SFT)	953,081.6155				
Elevation (SFT)*	414.064				

Convergence Angle	0	41	59.2832161		
Scale Factor	0.999957492				
Elevation Adjust. Factor	0.9999801944				
Combined Adjust. Factor	0.9999376873				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Description

TO REACH FROM THE INTERSECTION OF HWY 27 AND HWY. 7 IN DARDANELLE. GO SOUTH ON HWY 27 FOR 2.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS 1 FT. NORTHWEST OF A WITNESS POST, AND 37 FT. NORTHWEST OF THE CENTERLINE OF HWY. 27. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "750022 2014" SET ON TOP OF A 5/8 IN. BY 4FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	METAL FENCE CORNER POST	325	1.40	4.6	750022A
MK # 2	TELEPHONE BOX	230	1.40	4.6	
MK # 3	POWER POLE	110	22.70	74.5	

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARLR</p> <p>Ref Mon # 2 P777</p> <p>Ref Mon # 3 SAL5</p>	<p style="text-align: center;">Comments</p> <p>Elevations established from three wire levels from BM 919 and BM 920 from Job 080377 by B&F during Job 080495 in 04/2015. Elevations updated from three wire levels from BM 919 and BM 920 from Job 080377 by B&F during Job 080495 in 04/2015.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750022A	Date Monumented 10/2/2014	Monumented By AHTD	County YELL	Route 27	Job Number: 080495
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	97,944.9491	0.0039	
Easting (M)	290,917.4203	0.0039	
Elevation (M)*	114.102		
Northing (SFT)	321,341.0538		
Easting (SFT)	954,451.5698		
Elevation (SFT)*	374.349		

Convergence Angle	0	41	49.7787527
Scale Factor	0.999957115		
Elevation Adjust. Factor	0.9999820940		
Combined Adjust. Factor	0.9999392098		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	39	9.70	31.8
MK # 2	16" CEDAR TREE	99	19.00	62.3
MK # 3	30" PLASTIC PIPE UNDER FIELD ENTRANCE	245	11.80	38.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	Elevations established from three wire levels from BM 919 and BM 920 from Job 080377 by B&F during Job 080495 in 04/2015. Elevations updated from three wire levels from BM 919 and BM 920 from Job 080377 by B&F during Job 080495 in 04/2015.
Ref Mon # 2 P777	
Ref Mon # 3 SAL5	

Location Description	

AZ Mark Station	750022
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750023	Date Monumented 5/4/2020	Monumented By ARDOT	County YELL	Route 154	Job Number: 080618
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	87,181.9222 0.0050
Easting (M)	287,545.6359 0.0050
Elevation (M)*	

Northing (SFT)	286,029.3564		
Easting (SFT)	943,389.3071		
Elevation (SFT)*			

Convergence Angle	0	43	4.2465497
Scale Factor	0.999969566		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	C/L GATE	191	8.11	26.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	
Ref Mon # 2 ARR V	
Ref Mon # 3 ARGS	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 6 46.1484612
Longitude	93 14 1.0558896
Ellipsoid Height (M):	80.243 0.0210
Geoid Height (M):	-29.380 0.0210

Location Description
<p>TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 154E AND STATE HIGHWAY 28E, WEST OF CENTERVILLE, GO EAST ON HIGHWAY 154 0.45 MILES TO THE MARK ON THE RIGHT, S 42.9' OF THE C/L OF THE HIGHWAY AND 10.7' EAST OF A FIELD ROAD AND 2' WEST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 750023" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750023A	Date Monumented 5/4/2020	Monumented By ARDOT	County YELL	Route 154	Job Number: 080618
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	87,178.5122 0.0040
Easting (M)	287,985.1571 0.0050
Elevation (M)*	

Northing (SFT)	286,018.1688	
Easting (SFT)	944,831.3029	
Elevation (SFT)*		

Convergence Angle	0	42	54.1462498
Scale Factor	0.999969564		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 154E AND STATE HIGHWAY 28E, WEST OF CENTERVILLE, GO EAST ON HIGHWAY 154 0.75 MILES TO THE MARK ON THE RIGHT, S 17.6' OF THE C/L OF THE HIGHWAY AND 116.9' WEST OF THE C/L OF COBALT LN. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 750023A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/ TB	231	9.57	31.4
MK # 2				
MK # 3				

AZ Mark Station	750023
Geodetic Azimuth	
Grid Azimuth	

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARLR</p> <p>Ref Mon # 2 ARR V</p> <p>Ref Mon # 3 ARG S</p>	<div style="border: 1px solid black; height: 100px; margin: 5px 0;"></div> <p style="text-align: center; margin: 0;">Comments</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750024	Date Monumented 5/12/2021	Monumented By ARDOT	County YELL	Route 28	Job Number: 080678
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	73,077.8980	0.0030			
Easting (M)	279,236.3556	0.0040			
Elevation (M)*					
Northing (SFT)	239,756.4037				
Easting (SFT)	916,127.9433				
Elevation (SFT)*					

Convergence Angle	0	46	10.8212466
Scale Factor	0.999990298		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	53	7.19	23.6
MK # 2	COMBINATION POLE	290	9.26	30.4
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARFS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARGS</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARRV</td> </tr> </table>	Ref Mon # 1	ARFS	Ref Mon # 2	ARGS	Ref Mon # 3	ARRV	<table border="1" style="width: 100%; height: 150px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARFS							
Ref Mon # 2	ARGS							
Ref Mon # 3	ARRV							
Comments								

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 34 59 5.0083692

Longitude 93 19 21.6865416

Ellipsoid Height (M): 86.671 0.0130

Geoid Height (M): -29.356 0.0130

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 28 AND STATE HIGHWAY 60, IN PLAINVIEW, GO WEST ON HIGHWAY 28 1.65 MILES TO THE MARK ON THE RIGHT, 31.2' NORTH OF THE C/L OF THE HIGHWAY AND 45' WEST OF THE C/L OF DOC BULL ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 750024" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 750024A	Date Monumented 5/12/2021	Monumented By ARDOT	County YELL	Route 28	Job Number: 080678
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	73,074.9475	0.0030			
Easting (M)	279,651.3836	0.0030			
Elevation (M)*					
Northing (SFT)	239,746.7236				
Easting (SFT)	917,489.5810				
Elevation (SFT)*					

Convergence Angle	0	46	1.2990085
Scale Factor	0.999990293		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	COMBINATION POLE	283	21.58	70.8	750024
MK # 2	CENTER OF GATE	71	13.93	45.7	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFS	
Ref Mon # 2 ARGS	
Ref Mon # 3 ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 82 V 10 W	Date Monumented 1/1/1967	Monumented By MsHD	County S/WASHINGTON	Route N/A	Job Number: 020160
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	474,051.4526
Easting (M)	482,988.9044
Elevation (M)*	37.860
Northing (SFT)	1,555,283.8074
Easting (SFT)	1,584,606.0972
Elevation (SFT)*	124.212

Convergence Angle	0 29 56.0441522
Scale Factor	0.999993264
Elevation Adjust. Factor	0.9999940586
Combined Adjust. Factor	0.9999873226

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description
<p>STATION IS LOCATED ABOUT 16.5 KM (10.3 MI) EAST OF LAKE VILLAGE AR, 10.3 KM (6.4 MI) SOUTHWEST OF GREENVILLE, AND 10.3 KM (6.4 MI) NORTHWEST OF WAYSIDE. OWNERSHIP--MISSISSIPPI STATE HIGHWAY DEPARTMENT. TO REACH FROM THE JUNCTION OF U.S. HIGHWAYS 65 AND 82 IN LAKE VILLAGE AR. GO SOUTHEAST ON U.S.HIGHWAYS 65 AND 82 FOR 7.52 KM (4.67 MI) TO WHERE U.S.HIGHWAY 65 TURNS SOUTH. CONTINUE EASTERLY ON U.S.HIGHWAY 82 FOR 7.95 KM (4.94 MI) TO THE JUNCTION OF STATE HIGHWAY 142 ON THE RIGHT. CONTINUE NORTHEASTERLY ON U.S.HIGHWAY 82, CROSSING THE MISSISSIPPI RIVER BRIDGE AND ENTERING THE STATE OF MISSISSIPPI FOR 6.01 KM (3.73 MI) TO THE JUNCTION OF STATE HIGHWAY 454 ON THE RIGHT. CONTINUE NORTHEAST ON U.S.HIGHWAY 82 FOR 3.02 KM (1.88 MI) TO THE MT. CALVARY MB CHURCH AND THE STATION ON THE LEFT. IN THE SOUTHEAST CORNER OF THE CHURCH LAWN. STATION IS A STANDARD MSHD BENCH MARK DISK STAMPED--82V-10W 1966 BM---. SET IN THE TOP OF A 30-CM ROUND CONCRETE POST THAT PROJECTS 4-CM ABOVE THE GROUND. 16.5 M (54.1 FT) NORTHWEST OF THE CENTERLINE OF THE SOUTHWEST BOUND LANES OF U.S.HIGHWAY 82, 0.73 M (2.40 FT) SOUTHWEST OF A UTILITY POLE</p>

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTHEAST CORNER OF THE CHURCH	E-NE	50.30	165.0	AZ Mark Station
MK # 2	A METAL WITNESS POST	NE	0.30	1.0	Geodetic Azimuth
MK # 3	CENTER OF A GRAVELED DRIVEWAY	NNE	5.50	18.0	Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Position and elevation from NGS datasheet

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 83-99	Date Monumented 1/5/2001	Monumented By S. ARMY C.O.	County PRAIRIE	Route 63	Job Number: 060986
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 33,339.5178		Latitude 34 37 58.8297432
Easting (M) 440,813.8171		Longitude 91 33 17.7165324
Elevation (M)* 66.628		Ellipsoid Height (M): 40.004
		Geoid Height (M): -26.623

Northing (SFT) 109,381.4013	Easting (SFT) 1,446,236.6649	Location Description
Elevation (SFT)* 218.595		<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRIE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 MI) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 7.32 KM (4.55 MI) TO THE STATION ON THE RIGHT. THE STATION IS 7.60 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63, 3.70 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE AND 0.73 METERS WEST OF A WITNESS POST. THE STATION MARK IS U.S. ARMY C.O.E. MEMPHIS DISTRICT G.P.S. CAP STAMPED " 83-99" SET ON TOP OF A ROD. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM TBM 935. THE SHOT DISTANCE IS 772.287 METERS.</p>
Convergence Angle 0 15 32.3673527		
Scale Factor 1.000072598		
Elevation Adjust. Factor 0.9999895440		
Combined Adjust. Factor 1.0000621412		

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	30	17.30	56.8	590003
MK # 2	COMBINATION POLE	90	6.60	21.7	0 20 26.344853
MK # 3	NONE				0 04 53.976279

Area Reference Monuments (used for Processing) Ref Mon # 1 BRINKLEYPORT Ref Mon # 2 PAGIS 1001 Ref Mon # 3 ALMYPORT AZ MK	Comments Elevation by 3-wire from NGS Point C 114
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station A 190	Date Monumented 7/13/1994	Monumented By USC&GS	County CLAY	Route 62	Job Number: R00084
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 234,277.2031		Latitude 36 26 3.6453120
Easting (M) 544,059.0230		Longitude 90 23 36.2272812
Elevation (M)* 90.599		Ellipsoid Height (M): 61.167
		Geoid Height (M): -29.432

Northing (SFT) 768,624.4572		
Easting (SFT) 1,784,966.9780		
Elevation (SFT)* 297.240		

Convergence Angle 0 56 5.5723018		
Scale Factor 1.000045926		
Elevation Adjust. Factor 0.9999857823		
Combined Adjust. Factor 1.0000317076		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description				
<p>FROM THE POST OFFICE IN McDOUGAL, GO WEST ON HWY. 62 FOR 0.241 KM (0.15 MILES) TO THE STATION ON THE LEFT IN A SMALL PARK AREA. THE STATION IS 17.5 METERS SOUTH OF THE CENTERLINE OF HWY. 62, 13.8 METERS EAST OF COOPER STREET, 6.4 METERS WEST OF A GRAVEL DRIVE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD BRONZE CAP SET IN A CONCRETE POST THAT PROJECTS THREE (3) INCHES.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	270	6.30	20.7
MK # 2	24" OAK TREE	202	7.20	23.6
MK # 3	24" OAK TREE	100	13.60	44.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CORNPORT	<p>Cross Reference Job: R00119 and R00125</p>
Ref Mon # 2 HOPEWELL	
Ref Mon # 3 NONE	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station A 2	Date Monumented 1/1/1978	Monumented By DMA	County PULASKI	Route N/A	Job Number: NA
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	647,331.0631				
Easting (M)	387,090.5700				
Elevation (M)*	116.700				
Northing (SFT)	2,123,785.3295				
Easting (SFT)	1,269,979.6451				
Elevation (SFT)*	382.873				

Convergence Angle	0	4	44.5663516
Scale Factor	1.000031529		
Elevation Adjust. Factor	0.9999816863		
Combined Adjust. Factor	1.0000132147		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description					
<p>THE STATION IS LOCATED IN FRONT OF THE THOMAS COMMUNITY ACTIVITIES CENTER (BUILDING 868) ON LITTLE ROCK AIR FORCE BASE NEAR JACKSONVILLE. TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 67, 167 AND VANDENBERG BOULEVARD, GO WEST ON VANDENBERG BOULEVARD FOR 1.7 MI (2.7 KM) TO A SIDE ROAD LEFT, ARNOLD DRIVE. TURN LEFT AND GO WEST ON ARNOLD DRIVE FOR 0.5 MI (0.8 KM) TO THE WEST END OF THE THOMAS COMMUNITY ACTIVITIES CENTER AND THE STATION. THE STATION IS SET INTO THE TOP OF A 25-CM CONCRETE POST FLUSH WITH GROUND. LOCATED ABOUT 20 M (65.6 FT) WEST OF THE PARKING AREA AND ABOUT 20 M (65.6 FT) SOUTH OF A SMALL STAND OF TREES.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	FIRE HYDRANT	NW		22.90	75.1
MK # 2	NORTH EDGE OF ARNOLD DRIVE	N		8.60	28.2
MK # 3	WEST EDGE OF THE THOMAS ACTIVITIES CENTER DRIVEWAY	W		28.90	94.8

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station A 292	Date Monumented 1/1/1984	Monumented By NOAA	County LINCOLN	Route 65	Job Number: 20137, R20091
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	554,970.9300	
Easting (M)	430,639.3410	
Elevation (M)*	55.666	
Northing (SFT)	1,820,767.1262	
Easting (SFT)	1,412,855.9046	
Elevation (SFT)*	182.631	

Convergence Angle	0	11	8.7888048
Scale Factor	0.999918597		
Elevation Adjust. Factor	0.9999912643		
Combined Adjust. Factor	0.9999098620		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	270	0.80	2.6
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD MON 1	
Ref Mon # 2 J 112	
Ref Mon # 3 K 124	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 3 48.4517700
Longitude	91 40 5.0742660
Ellipsoid Height (M):	29.786
Geoid Height (M):	-25.879

Location Description
<p>TO REACH THE STATION FROM THE POST OFFICE IN GRADY, GO SOUTHEAST ON U.S. 65 FOR 3.38 KM (2.10 MI) TO THE JUNCTION OF A GRAVEL ROAD ON THE RIGHT, TURN RIGHT, SOUTHWEST ON GRAVEL ROAD CROSSING A RAILROAD TRACK TO THE STATION ON THE LEFT. THE STATION IS 50.13 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 65, 17.83 METERS SOUTHEAST OF THE CENTER OF THE GRAVEL ROAD, 16.67 METERS SOUTHWEST OF THE SOUTHWEST RAIL, 0.30 METERS WEST OF A FIBERGLASS WITNESS POST AND 0.50 METERS NORTHEAST OF AN AHTD WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN IN THE GROUND AND CAN BE REACHED THROUGH A 0.13 METER LOGO CAP STAMPED "A 292 1984" SET FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station A 292 AZ	Date Monumented 7/19/1995	Monumented By AHTD	County LINCOLN	Route 65	Job Number: 20137, R20091
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	554,725.1410
Easting (M)	431,092.1350
Elevation (M)*	54.628
Northing (SFT)	1,819,960.7334
Easting (SFT)	1,414,341.4462
Elevation (SFT)*	179.225

Convergence Angle	0 11 18.6545695
Scale Factor	0.999918579
Elevation Adjust. Factor	0.9999914272
Combined Adjust. Factor	0.9999100069

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>AHTD MON 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>J 112</td> </tr> <tr> <td>Ref Mon # 3</td> <td>K 124</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	AHTD MON 1	Ref Mon # 2	J 112	Ref Mon # 3	K 124	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	AHTD MON 1										
Ref Mon # 2	J 112										
Ref Mon # 3	K 124										
Comments											

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 3 40.4261280
Longitude	91 39 47.4470928
Ellipsoid Height (M):	28.712
Geoid Height (M):	-25.881

Location Description
<p>TO REACH THE STATION FROM THE POST OFFICE IN GRADY, GO SOUTHEAST ON U.S. HIGHWAY 65 FOR 3.90 (2.42 MI) TO THE STATION ON THE RIGHT. THE STATION IS 23.65 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 65, 9.25 METERS NORTHEAST OF THE NORTHEAST RAIL AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "A292A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station A 309	Date Monumented 1/1/1989	Monumented By USC&GS	County WASHINGTON	Route N/A	Job Number: 040272, 040346, CB7201
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	201,945.1369 0.0010
Easting (M)	204,977.0062 0.0010
Elevation (M)*	363.329
Northing (SFT)	662,548.3366
Easting (SFT)	672,495.3945
Elevation (SFT)*	1,192.022

Convergence Angle	-1 15 39.2599234
Scale Factor	0.999981913
Elevation Adjust. Factor	0.9999429851
Combined Adjust. Factor	0.9999248991

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	8	3.2200476
Longitude	94	10	0.7685400
Ellipsoid Height:	335.349		
Grid Northing (Meters)	201,945.1279		
Grid Easting (Meters)	204,976.9850		

Location Description			
<p>THE STATION IS LOCATED IN JOHNSON, AT THE INTERSECTION OF MAIN STREET AND THE ARKANSAS AND MISSOURI RAILROAD. THE STATION IS 41.0 METERS NORTH OF THE NORTHWEST CORNER OF THE OLD POST OFFICE BUILDING, 25.7 METERS NORTHEAST OF THE CENTERLINE OF THE STREET, 7.3 METERS NORTHWEST OF A UTILITY POLE, 6.4 METERS SOUTHEAST OF THE NEAR RAIL, AND .30 METERS NORTHEAST OF A WITNESS POST. THE MARK IS A METAL ROD DRIVEN TO REFUSAL AT 1.7 METERS AND FLUSH WITH THE GROUND. NOTE: ACCESS TO DATUM POINT IS HAD THROUGH A 5-INCH LOGO CAP. NOTE: CAP HAS BEEN BROKE OFF, "ROD IS O.K."</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY (V 26) Ref Mon # 2 ARHR (91040001) Ref Mon # 3 CTA1, 720063, 720063A (E E S)	THE OLD GEOID 12 HT. WAS -27.980m. THE ELEVATION IS BASED ON NGSS PUBLISHED ELEVATION.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station A 319	Date Monumented 	Monumented By AHTD	County NA	Route NA	Job Number: 001873, 020462
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	504,586.6142		
Easting (M)	395,425.4830		
Elevation (M)*	56.362		
Northing (SFT)	1,655,464.5834		
Easting (SFT)	1,297,325.1055		
Elevation (SFT)*	184.915		

Convergence Angle	0	1	39.3223195
Scale Factor	0.999945781		
Elevation Adjust. Factor	0.9999911550		
Combined Adjust. Factor	0.9999369365		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS	
Ref Mon # 3 W 77, T 83, 220013, 220001A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station A 324	Date Monumented 11/6/2008	Monumented By AHTD	County Greene	Route 69	Job Number: 100445
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	190,224.3579	
Easting (M)	536,445.0770	
Elevation (M)*	80.458	
Northing (SFT)	624,094.4142	
Easting (SFT)	1,759,986.8901	
Elevation (SFT)*	263.968	

Convergence Angle	0	52	51.8955131
Scale Factor	0.999967286		
Elevation Adjust. Factor	0.9999873737		
Combined Adjust. Factor	0.9999546601		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination Pole	270	1.83	6.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG, ARBT BLMM Ref Mon # 2 280012,280012A Ref Mon # 3 280006,280006A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS marks K 187, L 187, PARAGOULD BM, L 32, O 8 4, M 187, FIRST, FIRST AZ MK, Q 188.</td> </tr> </table>	Comments	Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS marks K 187, L 187, PARAGOULD BM, L 32, O 8 4, M 187, FIRST, FIRST AZ MK, Q 188.
Comments			
Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS marks K 187, L 187, PARAGOULD BM, L 32, O 8 4, M 187, FIRST, FIRST AZ MK, Q 188.			

Location Description	
To reach the station from the junction of highways 412 and 69 in downtown Paragould go south on highway 69 for 0.95 miles to the station on the right 25 feet south of the center of a bar ditch, 33.10 feet west of the center of hwy-69 and 1.0 feet east of a carsonite witness post. The station mark is a 2 1/2 inch cap stamped "A 324 2008" set in the top of a 12 inch round by 3 foot deep concrete post that is flush with the ground.	

AZ Mark Station	B 324
Geodetic Azimuth	177 55 58
Grid Azimuth	177 03 06

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station A 326	Date Monumented 5/6/2009	Monumented By AHTD	County POPE	Route SPEN RI	Job Number: 080606
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	108,536.0794	0.0030	
Easting (M)	297,139.7837	0.0020	
Elevation (M)*	117.699		
Northing (SFT)	356,088.7872		
Easting (SFT)	974,866.1070		
Elevation (SFT)*	386.151		

Convergence Angle	0	39	29.4263065
Scale Factor	0.999947632		
Elevation Adjust. Factor	0.9999815295		
Combined Adjust. Factor	0.9999291625		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description
<p>TO REACH FROM THE INTERSECTION OF U.S INTERSTATE 40 AND ARKANSAS STATE HIGHWAY 7 IN RUSSELLVILLE, GO NORTH ON HIGHWAY 7 FOR 0.1 MI (0.2 KM) TO ASPEN ROAD. TURN RIGHT, EAST, ON ROAD FOR 0.4 MI (0.6 KM) TO THE STATION ON THE RIGHT, NORTH OF AHTD DISTRICT SHOP.</p> <p>IT IS 35.0 M (114.8 FT) EAST OF THE CENTER OF AN ASPHALT DRIVE, 23.1 M (75.8 FT) SOUTH OF THE CENTER OF ASPEN ROAD, 32.5 M (106.6 FT) SOUTHWEST OF THE WEST END OF A CORRUGATED METAL PIPE, 28.1 M (92.2 FT) SOUTHEAST OF A FENCE CORNER, 23.0 M (75.5 FT) NORTHEAST OF THE CENTER OF A DROP INLET, 15.1 M (49.5 FT) SOUTH OF A FIBERGLASS WITNESS POST.</p>

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	
Ref Mon # 2 ARHR	
Ref Mon # 3 ARLR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station A 81	Date Monumented 4/18/1935	Monumented By CGS	County GRANT	Route RONT ST	Job Number: 020562
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	584,188.7487	
Easting (M)	341,079.9507	
Elevation (M)*	70.351	
Northing (SFT)	1,916,625.9197	
Easting (SFT)	1,119,026.4716	
Elevation (SFT)*	230.810	

Convergence Angle	0	21	30.0704753
Scale Factor	0.999931346		
Elevation Adjust. Factor	0.9999889598		
Combined Adjust. Factor	0.9999203065		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	AHTD HOPE CORS	51 31' 05"	12,733.24	369,859.0	
MK # 2	AHTD CAMDEN CORS	14 24' 00"	89,725.99	294,376.0	
MK # 3	AHTD LITTLE ROCK CORS	211 39' 47"	45,184.01	148,241.2	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP Ref Mon # 2 ARCM Ref Mon # 3 ARLR	ELEV. BASED ON NGS DATASHEET.

Location Description	
AT POYEN ON THE CHICAGO ROCK ISLAND AND PACIFIC RAILWAY, 0.1 MILE NORTH OF THE STATION, 2.3 FEET WEST OF POLE 12+04, 37 FEET WEST OF THE CENTER LINE OF THE MAIN TRACK, 73 FEET SOUTH OF THE SOUTHWEST CORNER OF RAILWAY SECTION TOOL HOUSE. A STANDARD DISK, SET IN THE TOP OF A CONCRETE POST	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station ADAMS 2	Date Monumented 1/1/1970	Monumented By NGS	County PULASKI	Route 1440	Job Number: NA
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	628,811.3880	
Easting (M)	379,290.3930	
Elevation (M)*	77.842	
Northing (SFT)	2,063,025.3621	
Easting (SFT)	1,244,388.5644	
Elevation (SFT)*	255.387	

Convergence Angle	0	7	35.6057625
Scale Factor	0.999991903		
Elevation Adjust. Factor	0.9999877842		
Combined Adjust. Factor	0.9999796873		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>NOTE---THIS STATION IS A COOPERATIVE BASE NETWORK CONTROL STATION. THIS STATION IS THE PRIMARY AIRPORT CONTROL STATION (PACS) . THE STATION IS LOCATED AT THE LITTLE ROCK NATIONAL AIRPORT, IN THE GRASS AREA SOUTHEAST OF TAXIWAY F AND MIDWAY BETWEEN TAXIWAYS H AND P, NORTH OF THE NORTH CORNER OF THE NORTHERNMOST OF FOUR RAYTHEON HANGERS. OWNERSHIP--THE CITY OF LITTLE ROCK, 1 AIRPORT DRIVE, LITTLE ROCK ARKANSAS, 72202. PHONE 501-372-3439. AIRPORT MANAGER-OPERATIONS--MR. CHRISTOPHER H. WHITE, LITTLE ROCK NATIONAL AIRPORT, ADAMS FIELD, ONE AIRPORT DRIVE, LITTLE ROCK ARKANSAS, 72202-4489. PHONE--501-372-3439. FAX--501-372-0612. GENERAL SUPERINTENDENT OF MAINTENANCE--MR. K.M.STOKES. PHONE--501-374-9649 OR 501-374-5441. YOU MUST HAVE A VISITORS PASS AND AN ESCORT TO ACCESS THE AIRPORT. GIVE AT LEAST 1 WEEK ADVANCED NOTICE BEFORE ARRIVAL. TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAY 440 (EXIT 3) AND COUNTY ROAD 21 (BANKHEAD ROAD) IN SOUTHEAST LITTLE ROCK. DRIVE NORTH AND NORTHEAST FOR 0.9 MI. (1.4 KM) TO THE AIRPORT TERMINAL BUILDING. THE AIRPORT OPERATIONS MANAGERS OFFICE IS LOCATED ON THE SOUTHEASTERN END</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	EJ0133 ADAMS 2 RM 3	028 53		31.11	102.1
MK # 2	EJ1697 LITTLE ROCK ADAM FLD ASR 4 RAD	150 02		315.46	1,035.0
MK # 3	EJ1695 ADAMS	305 31		25.63	84.1

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station ADS 1001	Date Monumented	Monumented By F&H	County CRAWFORD	Route DRNHILI	Job Number: 040373,040748
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	120,413.2363	0.0010			
Easting (M)	197,225.5072	0.0010			
Elevation (M)*	118.874				

Northing (SFT)	395,055.7594				
Easting (SFT)	647,064.0182				
Elevation (SFT)*	390.005				

Convergence Angle	-1	17	56.6001722		
Scale Factor	0.999941191				
Elevation Adjust. Factor	0.9999813452				
Combined Adjust. Factor	0.9999225373				

SUPERCEDED CONTROL

Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 162 AND STATE HIGHWAY 64B, IN ALMA, GO WEST ON HIGHWAY 162 4.35 MILES TO THORNHILL ROAD AND TURN LEFT (SOUTH) AND GO 2.25 MILES TO THE MARK ON THE LEFT, EAST 27 FEET OF THE CENTERLINE OF THE ROAD, 40 FOOT NORTH OF THE CENTERLINE OF A FIELD ROAD AND WEST 5.5 FEET OF A WITNESS POST. THE MARK IS 1 INCH CAP SET IN A 7 INCH ROUND CONCRETE CYCLNDER STAMPED "JOB#040373, ADS 1001, 1276" LEVEL WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	GAS VALVE	130	3.35	11.0	170030
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT. *****PUBLISH ED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST
Ref Mon # 2 ARHR	
Ref Mon # 3 OKHV	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station AGRONOMY	Date Monumented 1/1/1997	Monumented By ARN COOPER	County WASHINGTON	Route N/A	Job Number: #620_5,004822,040489,012069
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - 3 Wire Level Elevation Datum: NAVD 88 Geoid Datum: Latitude 36 5 48.7759488 Longitude 94 10 28.5433824 Ellipsoid Height (M): 366.576 Geoid Height (M): -27.971
Horizontal Datum NAD 83 (1997)		
Northing (M)	197,817.6260	
Easting (M)	204,191.2030	
Elevation (M)*	394.547	
Northing (SFT)	649,006.6613	
Easting (SFT)	669,917.3052	
Elevation (SFT)*	1,294.441	

Convergence Angle	-1 15 55.4225680
Scale Factor	0.999975875
Elevation Adjust. Factor	0.9999380866
Combined Adjust. Factor	0.9999139631

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description
 TO REACH THE STATION FROM THE JUNCTION OF I 540 AND STATE HIGHWAY 112, ON THE NORTH EDGE OF FAYETTEVILLE, GO SOUTH ON STATE HIGHWAY 112 FOR 0.50 MILES TO CASSATT STREET ON THE LEFT, TURN LEFT (EAST) ON CASSATT STREET AND GO EAST FOR 0.15 MILES TO A GRAVEL ROAD ON THE RIGHT. TURN RIGHT (SOUTH) ON THE GRAVEL ROAD AND GO 0.15 MILES TO THE STATION ON THE RIGHT. THE STATION IS 5.10 METERS WEST OF THE CENTER OF THE GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS AN ARKANSAS HARN DISK SET IN A 13 - INCH DIAMETER BY 48 INCH DEEP ROUND CONCRETE MONUMENT FLUSH WITH THE GROUND. THE DISK IS STAMPED AGRONOMY. ELEVATION WAS ARRIVED AT ON THIS STATION BY 3 WIRE LEVES FROM NGS BENCH L 310 PID # GG0905 RAN BY CREW S5102.

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WEST EDGE OF THE GRAVEL ROAD	W	3.70	12.1	
MK # 2	IRRIGATION VALVE IN METAL BOX	SW 27	5.30	17.4	
MK # 3	A 3.5 FOOT (1.1 M) TALL METAL GUARD POST	SW	8.50	27.9	

Area Reference Monuments (used for Processing) Ref Mon # 1 AGRONOMY Ref Mon # 2 ENES Ref Mon # 3 V 26	Comments 3-Wire Levels ran from NGS Marks C 27, K 310, & A 27 on 2-23-07 by crew S5101 on JOB 040489. Verified with 3-wire levels by crew S5101 in October 07 from 1st Order NGS marks Q 310, J 27, K 310, & A 27.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station AHTD FS 2	Date Monumented 6/14/1999	Monumented By AHTD	County SEBASTIAN	Route 71	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	114,834.5921	
Easting (M)	179,855.3560	
Elevation (M)*	132.900	
Northing (SFT)	376,753.1576	
Easting (SFT)	590,075.4471	
Elevation (SFT)*	436.023	

Convergence Angle	-1	24	33.8894163
Scale Factor	0.999944676		
Elevation Adjust. Factor	0.9999791441		
Combined Adjust. Factor	0.9999238212		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FLAG POLE	ST-NORTHW	24.80	81.4
MK # 2	GAS VALVE	NORTHEAST	14.50	47.6
MK # 3	WEST EDGE PARK (9TH PARKING SPACE N ORTH OF ENTR)	WEST	1.20	3.9

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 100px;"> Comments </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station AHTD HAR 1	Date Monumented 	Monumented By AHTD	County BOONE	Route 65	Job Number: Mobile LiDAR-CLS,090371
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Vertical Determined By:</td> <td colspan="2">3rd Order - 3 Wire Level</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2">Geoid 96</td> </tr> <tr> <td>Latitude</td> <td>36</td> <td>11</td> </tr> <tr> <td>Longitude</td> <td>93</td> <td>1</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>328.620</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.270</td> <td></td> </tr> </table>	Vertical Determined By:	3rd Order - 3 Wire Level		Elevation Datum:	NAVD 88		Geoid Datum:	Geoid 96		Latitude	36	11	Longitude	93	1	Ellipsoid Height (M):	328.620		Geoid Height (M):	-28.270	
Vertical Determined By:	3rd Order - 3 Wire Level																						
Elevation Datum:	NAVD 88																						
Geoid Datum:	Geoid 96																						
Latitude	36		11																				
Longitude	93	1																					
Ellipsoid Height (M):	328.620																						
Geoid Height (M):	-28.270																						
Horizontal Datum NAD 83 (1997)																							
Northing (M)	205,833.8730																						
Easting (M)	307,331.3940																						
Elevation (M)*	356.899																						
Northing (SFT)	675,306.6317	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">Location Description</td> </tr> <tr> <td colspan="2"> <p>THE STATION IS LOCATED ABOUT 8.0 KM (4.95 MI) SOUTH OF HARRISON, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 9 HEADQUARTERS. OWNERSHIP--STATE OF ARKANSAS, PO BOX 610, HARRISON AR 72602-0610, PHONE 870-743-2100, DISTRICT ENGINEER IS RALPH FULTON. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 65, 62 AND 412, LOCATED ABOUT 7.4 KM (4.60 MI) SOUTH OF HARRISON, GO SOUTH ON HIGHWAY 65 FOR 0.64 KM (0.40 MI) TO A PAVED ENTRANCE ROAD TO ARHD DISTRICT 9 HEADQUARTERS ON THE RIGHT. TURN RIGHT, SOUTHWEST ON ENTRANCE ROAD FOR 0.08 KM (0.05 MI) TO A GATE. PASS THROUGH THE GATE, CONTINUE SOUTHWESTERLY FOLLOWING THE NORTH EDGE OF A PAVED AREA FOR 0.16 KM (0.10 MI) TO A BRICK BUILDING ON THE LEFT AND A LARGE OAK TREE ON THE RIGHT. CONTINUE FOLLOWING THE EDGE OF THE PAVED AREA FOR ABOUT 20 M (65.6 FT) TO A PAVED ROAD. GO SOUTHERLY ON A PAVED ROAD UP A HILL FOR ABOUT 30 M (98.4 FT) TO ANOTHER PAVED AREA AND THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. 22.60 M (74.15 FT) SOUTHEAST OF THE BACK OF CURB AND 2.70 M (8.86 FT) NORTHEAST OF THE</p> </td> </tr> </table>	Location Description		<p>THE STATION IS LOCATED ABOUT 8.0 KM (4.95 MI) SOUTH OF HARRISON, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 9 HEADQUARTERS. OWNERSHIP--STATE OF ARKANSAS, PO BOX 610, HARRISON AR 72602-0610, PHONE 870-743-2100, DISTRICT ENGINEER IS RALPH FULTON. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 65, 62 AND 412, LOCATED ABOUT 7.4 KM (4.60 MI) SOUTH OF HARRISON, GO SOUTH ON HIGHWAY 65 FOR 0.64 KM (0.40 MI) TO A PAVED ENTRANCE ROAD TO ARHD DISTRICT 9 HEADQUARTERS ON THE RIGHT. TURN RIGHT, SOUTHWEST ON ENTRANCE ROAD FOR 0.08 KM (0.05 MI) TO A GATE. PASS THROUGH THE GATE, CONTINUE SOUTHWESTERLY FOLLOWING THE NORTH EDGE OF A PAVED AREA FOR 0.16 KM (0.10 MI) TO A BRICK BUILDING ON THE LEFT AND A LARGE OAK TREE ON THE RIGHT. CONTINUE FOLLOWING THE EDGE OF THE PAVED AREA FOR ABOUT 20 M (65.6 FT) TO A PAVED ROAD. GO SOUTHERLY ON A PAVED ROAD UP A HILL FOR ABOUT 30 M (98.4 FT) TO ANOTHER PAVED AREA AND THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. 22.60 M (74.15 FT) SOUTHEAST OF THE BACK OF CURB AND 2.70 M (8.86 FT) NORTHEAST OF THE</p>																		
Location Description																							
<p>THE STATION IS LOCATED ABOUT 8.0 KM (4.95 MI) SOUTH OF HARRISON, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 9 HEADQUARTERS. OWNERSHIP--STATE OF ARKANSAS, PO BOX 610, HARRISON AR 72602-0610, PHONE 870-743-2100, DISTRICT ENGINEER IS RALPH FULTON. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 65, 62 AND 412, LOCATED ABOUT 7.4 KM (4.60 MI) SOUTH OF HARRISON, GO SOUTH ON HIGHWAY 65 FOR 0.64 KM (0.40 MI) TO A PAVED ENTRANCE ROAD TO ARHD DISTRICT 9 HEADQUARTERS ON THE RIGHT. TURN RIGHT, SOUTHWEST ON ENTRANCE ROAD FOR 0.08 KM (0.05 MI) TO A GATE. PASS THROUGH THE GATE, CONTINUE SOUTHWESTERLY FOLLOWING THE NORTH EDGE OF A PAVED AREA FOR 0.16 KM (0.10 MI) TO A BRICK BUILDING ON THE LEFT AND A LARGE OAK TREE ON THE RIGHT. CONTINUE FOLLOWING THE EDGE OF THE PAVED AREA FOR ABOUT 20 M (65.6 FT) TO A PAVED ROAD. GO SOUTHERLY ON A PAVED ROAD UP A HILL FOR ABOUT 30 M (98.4 FT) TO ANOTHER PAVED AREA AND THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. 22.60 M (74.15 FT) SOUTHEAST OF THE BACK OF CURB AND 2.70 M (8.86 FT) NORTHEAST OF THE</p>																							
Easting (SFT)	1,008,303.0818																						
Elevation (SFT)*	1,170.927																						
Convergence Angle	0 35 58.1259214																						
Scale Factor	0.999990668																						
Elevation Adjust. Factor	0.9999439940																						
Combined Adjust. Factor	0.9999346625																						

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	MANHOLE	S		37.90	124.3
MK # 2	MANHOLE	W		32.20	105.6
MK # 3	THE EXTENDED CENTER OF PAVED ROAD	E		23.40	76.8

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td></td> </tr> <tr> <td>Ref Mon # 2</td> <td></td> </tr> <tr> <td>Ref Mon # 3</td> <td></td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1		Ref Mon # 2		Ref Mon # 3		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Levels were ran in Job 090198/090152 by S5111 and S5108 in June 2006.</td> </tr> </table>	Comments	3-Wire Levels were ran in Job 090198/090152 by S5111 and S5108 in June 2006.
Area Reference Monuments (used for Processing)											
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Ref Mon # 2											
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Comments											
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station AHTD HAR 2	Date Monumented 1/1/1997	Monumented By AHTD	County BOONE	Route 65	Job Number: Mobile LiDAR-CLS,090371
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Vertical Determined By:</td> <td colspan="2">3rd Order - 3 Wire Level</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2">Geoid 96</td> </tr> <tr> <td>Latitude</td> <td>36</td> <td>11 11.9028516</td> </tr> <tr> <td>Longitude</td> <td>93</td> <td>1 45.3239472</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>322.980</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.270</td> <td></td> </tr> </table>	Vertical Determined By:	3rd Order - 3 Wire Level		Elevation Datum:	NAVD 88		Geoid Datum:	Geoid 96		Latitude	36	11 11.9028516	Longitude	93	1 45.3239472	Ellipsoid Height (M):	322.980		Geoid Height (M):	-28.270	
Vertical Determined By:	3rd Order - 3 Wire Level																						
Elevation Datum:	NAVD 88																						
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Longitude	93	1 45.3239472																					
Ellipsoid Height (M):	322.980																						
Geoid Height (M):	-28.270																						
Horizontal Datum NAD 83 (1997)																							
Northing (M)	206,098.6400																						
Easting (M)	307,420.0960																						
Elevation (M)*	351.257																						
Northing (SFT)	676,175.2881	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Location Description</th> </tr> <tr> <td colspan="2" style="padding: 5px;"> THE STATION IS LOCATED ABOUT 8.0 KM (4.95 MI) SOUTH OF HARRISON, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 9 HEADQUARTERS. OWNERSHIP--STATE OF ARKANSAS, PO BOX 610, HARRISON AR 72602-0610, PHONE 870-743-2100, DISTRICT ENGINEER IS RALPH FULTON. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 65, 62 AND 412, LOCATED ABOUT 7.4 KM (4.60 MI) SOUTH OF HARRISON, GO SOUTH ON HIGHWAY 65 FOR 0.64 KM (0.40 MI) TO A PAVED ENTRANCE ROAD TO ARHD DISTRICT 9 HEADQUARTERS ON THE RIGHT. TURN RIGHT, SOUTHWEST ON ENTRANCE ROAD FOR 0.04 KM (0.00 MI) TO A PAVED ENTRANCE ROAD TO A PAVED PARKING LOT ON THE RIGHT. TURN RIGHT, THEN LEFT AND CONTINUE SOUTHWEST ON THE PAVED ROAD FOR 0.04 KM (0.00 MI) TO THE PARKING LOT AND THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. NOTE--THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATION FOR A CLASS A ROD MARK. </td> </tr> </table>	Location Description		THE STATION IS LOCATED ABOUT 8.0 KM (4.95 MI) SOUTH OF HARRISON, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 9 HEADQUARTERS. OWNERSHIP--STATE OF ARKANSAS, PO BOX 610, HARRISON AR 72602-0610, PHONE 870-743-2100, DISTRICT ENGINEER IS RALPH FULTON. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 65, 62 AND 412, LOCATED ABOUT 7.4 KM (4.60 MI) SOUTH OF HARRISON, GO SOUTH ON HIGHWAY 65 FOR 0.64 KM (0.40 MI) TO A PAVED ENTRANCE ROAD TO ARHD DISTRICT 9 HEADQUARTERS ON THE RIGHT. TURN RIGHT, SOUTHWEST ON ENTRANCE ROAD FOR 0.04 KM (0.00 MI) TO A PAVED ENTRANCE ROAD TO A PAVED PARKING LOT ON THE RIGHT. TURN RIGHT, THEN LEFT AND CONTINUE SOUTHWEST ON THE PAVED ROAD FOR 0.04 KM (0.00 MI) TO THE PARKING LOT AND THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. NOTE--THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATION FOR A CLASS A ROD MARK.																		
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Easting (SFT)	1,008,594.0983																						
Elevation (SFT)*	1,152.415																						
Convergence Angle 0 35 56.1247740																							
Scale Factor 0.999991106																							
Elevation Adjust. Factor 0.9999448794																							
Combined Adjust. Factor 0.9999359859																							

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	SOUTHWEST END OF A CONCRETE HEADW	S	34.60	113.5	AHTD HAR 1
MK # 2	CENTER OF PAVED ENTRANCE ROAD TO T	NW	25.00	82.0	197 55
MK # 3	BACK OF CURB	NE	2.80	9.2	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;"> 3-Wire Levels were ran in Job 090198/090152 by S5111 and S5108 in June 2006. </td> </tr> </table>	Comments	3-Wire Levels were ran in Job 090198/090152 by S5111 and S5108 in June 2006.
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
AHTD HOPE 1	1/1/1997	AHTD	HEMPSTEAD	29	3720_7

Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	515,363.4270	
Easting (M)	251,615.1614	
Elevation (M)*	108.100	
Northing (SFT)	1,690,821.5101	
Easting (SFT)	825,507.4087	
Elevation (SFT)*	354.658	

Convergence Angle	0	53	45.1410667
Scale Factor	0.999935774		
Elevation Adjust. Factor	0.9999830359		
Combined Adjust. Factor	0.9999188110		

SUPERCEDED CONTROL			
Horizontal Datum	NAVD 88		
Latitude	33	41	46.8192120
Longitude	93	36	2.3641812
Ellipsoid Height:	81.100		
Grid Northing (Meters)	515,363.4042		
Grid Easting (Meters)	251,615.1380		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH WALL OF THE RESIDENT ENGINEER	N	10.59	34.7
MK # 2	SOUTH EDGE OF A CONCRETE SIDEWALK	S	4.38	14.4
MK # 3	BRICK FENCE	E	3.39	11.1

Area Reference Monuments (used for Processing) <div style="margin-top: 10px;"> Ref Mon # 1 <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;"> Ref Mon # 2 <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;"> Ref Mon # 3 <input style="width: 150px;" type="text"/> </div>	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description
THE STATION IS LOCATED ABOUT 0.60 KM (0.35 MI) NORTH OF HOPE, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 3. OWNERSHIP--THE STATE OF ARKANSAS, PO BOX 490, HOPE AR 71801-0490, PHONE 870-777-3457, THE DISTRICT ENGINEER IS WILLIAM TYLER. TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE 30 AND STATE HIGHWAY 29 (EXIT 31) LOCATED ON THE NORTH SIDE OF HOPE, GO NORTH ON STATE HIGHWAY 29 FOR 0.64 KM (0.40 MI) TO THE JUNCTION OF THE SOUTH ENTRANCE ROAD TO THE ARHD DISTRICT 3 ON THE RIGHT. TURN RIGHT, EASTERLY ON A PAVED ROAD FOR 0.04 KM (0.00 MI) TO A PAVED ROAD LEFT. TURN LEFT, NORTH, PASSING THROUGH A GATE IN A BRICK FENCE FOR 0.04 KM (0.00 MI) TO THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. NOTE--THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATIONS FOR A CLASS A ROD MARK.

AZ Mark Station	AHTD HOPE 2
Geodetic Azimuth	306 29
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
AHTD HOPE 2	1/1/1997	AHTD	HEMPSTEAD	29	030078

Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	515,514.5232	
Easting (M)	251,417.3330	
Elevation (M)*	107.000	
Northing (SFT)	1,691,317.2315	
Easting (SFT)	824,858.3667	
Elevation (SFT)*	351.049	

Convergence Angle	0	53	49.4915733
Scale Factor	0.999935638		
Elevation Adjust. Factor	0.9999832085		
Combined Adjust. Factor	0.9999188476		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF STATE HIGHWAY 29	NE	27.34	89.7
MK # 2	CENTER OF COUNTY ROAD 221	S	11.58	38.0
MK # 3	A FIBERGLASS WITNESS POST	SW	1.00	3.3

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">AZ Mark Station</th> <td>AHTD HOPE 1</td> </tr> <tr> <th style="text-align: center;">Geodetic Azimuth</th> <td>126 29</td> </tr> <tr> <th style="text-align: center;">Grid Azimuth</th> <td></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	AZ Mark Station	AHTD HOPE 1	Geodetic Azimuth	126 29	Grid Azimuth		Comments	
AZ Mark Station	AHTD HOPE 1								
Geodetic Azimuth	126 29								
Grid Azimuth									
Comments									

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station AHTD LR 1	Date Monumented 1/1/1997	Monumented By AHTD	County PULASKI	Route 388	Job Number: OFFICE
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	622,556.7633	
Easting (M)	364,939.9302	
Elevation (M)*	92.803	
Northing (SFT)	2,042,504.9809	
Easting (SFT)	1,197,307.0877	
Elevation (SFT)*	304.471	

Convergence Angle	0	12	50.7955313
Scale Factor	0.999980382		
Elevation Adjust. Factor	0.9999854364		
Combined Adjust. Factor	0.9999658187		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	40	21.4440276
Longitude	92	22	57.1826928
Ellipsoid Height:	66.320		
Grid Northing (Meters)	622,556.7609		
Grid Easting (Meters)	364,939.8940		

Location Description			
<p>THE STATION IS LOCATED ON THE SOUTHWEST SIDE OF LITTLE ROCK, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT CENTRAL OFFICE AND DISTRICT 6. OWNERSHIP--STATE OF ARKANSAS, PO BOX 190296, LITTLE ROCK AR 72219-0296, PHONE 501-569-2173, DISTRICT ENGINEER IS LEONARD HALL. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 338 (BASELINE ROAD AND MABELVALE PIKE) AND INTERSTATE 30 (EXIT 130) LOCATED ON THE SOUTHWEST SIDE OF LITTLE ROCK, GO NORTH ON STATE HIGHWAY 338 (BASELINE ROAD AND MABELVALE PIKE) FOR 0.08 KM (0.05 MI) TO A T-JUNCTION. TURN RIGHT, EAST ON MABELVALE PIKE FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF MABELVALE PIKE ON THE LEFT. TURN LEFT, NORTH ON MABELVALE PIKE FOR 0.40 KM (0.25 MI) TO THE JUNCTION OF A PAVED ROAD ON THE LEFT TO THE ARHD DISTRICT 6. TURN LEFT, WEST ON THE PAVED ROAD FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT, IN A PAVED PARKING LOT, UNDER A 7.62 M (25.00 FT) TOWER. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. LOCATED 32.94 M (108.07 FT) EAST OF THE BACK OF CURB, 22.25 M (73.00 FT) SOUTH OF THE BACK OF CURB, 2.95 M (9.68 FT) WEST OF THE BACK OF CURB AND 2.50 M (8.20 FT)</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH WALL OF A BRICK BUILDING	N	9.25	30.3
MK # 2	CENTER OF A PAVED ROAD	S	32.25	105.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	<p>BASED ON 3 WIRE LEVEL FROM NGS POINT ET 11 *****ORIG. GEOID HT. FROM NAD 83 (1997) POSITION WAS -26.450m *****UPDATE D NAD 83 (2011) IS BASED ON NGS PUBLISHED POSITION *****OLD ELEV. 92.8373m BASED ON LEVELS BY AHTD FROM BM ET 11, NEW</p>
Ref Mon # 2	
Ref Mon # 3	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station AHTD LR 2	Date Monumented 1/1/1997	Monumented By AHTD	County PULASKI	Route 388	Job Number: OFFICE,060657,061332
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	622,604.7256
Easting (M)	364,776.0419
Elevation (M)*	88.507
Northing (SFT)	2,042,662.3372
Easting (SFT)	1,196,769.3975
Elevation (SFT)*	290.377

Convergence Angle	0 12 54.4025408
Scale Factor	0.999980465
Elevation Adjust. Factor	0.9999861106
Combined Adjust. Factor	0.9999665758

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	40	22.9805364
Longitude	92	23	3.6270924
Ellipsoid Height:	62.010		
Grid Northing (Meters)	622,604.7219		
Grid Easting (Meters)	364,776.0120		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHAIN LINK FENCE	E	27.50	90.2
MK # 2	CENTER OF A PAVED ROAD	N	10.10	33.1
MK # 3	UTILITY POLE	SE	37.16	121.9

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ORIG. GEOID HT. FROM NAD 83 (1997) POSITION WAS -26.450m *****UPDATE D NAD 83 (2011) IS BASED ON NGS PUBLISHED POSITION *****PREVIOUS S ELEV. OF 88.500m WAS UPDATED AND BASED ON NGS PUBLISHED ELEV. OF 88.507m IN MAY 2008 FROM DIFFERENTIAL LEVELING </td> </tr> </table>	Comments	ORIG. GEOID HT. FROM NAD 83 (1997) POSITION WAS -26.450m *****UPDATE D NAD 83 (2011) IS BASED ON NGS PUBLISHED POSITION *****PREVIOUS S ELEV. OF 88.500m WAS UPDATED AND BASED ON NGS PUBLISHED ELEV. OF 88.507m IN MAY 2008 FROM DIFFERENTIAL LEVELING
Comments			
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station AHTD MON 1	Date Monumented 1/1/1997	Monumented By AHTD	County DREW	Route 425	Job Number: 020286
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	509,987.0722	
Easting (M)	418,318.8360	
Elevation (M)*	87.242	
Northing (SFT)	1,673,182.5860	
Easting (SFT)	1,372,434.3811	
Elevation (SFT)*	286.226	

Convergence Angle	0	6	37.9659596
Scale Factor	0.999939899		
Elevation Adjust. Factor	0.9999863091		
Combined Adjust. Factor	0.9999262089		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHAIN LINK FENCE	E	2.06	6.8
MK # 2	SOUTH BRICK WALL OF THE RESIDENT EN CENTER BUILDING	S	1.94	6.4
MK # 3	CENTER OF THE ENTRANCE TO AREA YAR	N	7.20	23.6

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 39 29.3912784
Longitude	91 48 8.9537580
Ellipsoid Height (M):	61.530
Geoid Height (M):	-25.680

Location Description
<p>THE STATION IS LOCATED ABOUT 3.22 KM (2.00 MI) NORTH OF MONTICELLO, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT MAINTENANCE AREA HEADQUARTERS. OWNERSHIP--STATE OF ARKANSAS, PO BOX 244, MONTICELLO AR 71655, PHONE 870-367-6275, SUPERVISOR IS DWAIN (DOC) MILES. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 4 LOCATED ON THE WEST SIDE OF MONTICELLO, GO NORTH ON U.S. HIGHWAY 425 FOR 3.22 KM (2.00 MI) TO THE NORTH ENTRANCE TO THE ARHD MAINTENANCE AREA HEADQUARTERS ON THE RIGHT. TURN RIGHT, EAST THROUGH A PARKING LOT FOR ABOUT 34.0 M (111.5 FT) TO A GATE IN A CHAIN LINK FENCE. PASS THROUGH THE GATE FOR ABOUT 6.0 M (19.7 FT) TO THE STATION ON THE LEFT, UNDER A 6.10 M (20.01 FT) TOWER. THE STATION IS PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. LOCATED 41.48 M (136.09 FT) EAST OF THE CENTER OF HIGHWAY 425NOTE--THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATIONS FOR A CLASS A ROD MARK.</p>

AZ Mark Station	AHTD MON 2
Geodetic Azimuth	228 47
Grid Azimuth	

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station AHTD MON 2	Date Monumented 1/1/1997	Monumented By AHTD	County DREW	Route 425	Job Number: 020286
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	509,961.3301	
Easting (M)	418,289.5640	
Elevation (M)*	87.891	
Northing (SFT)	1,673,098.1305	
Easting (SFT)	1,372,338.3446	
Elevation (SFT)*	288.356	

Convergence Angle	0	6	37.3289673
Scale Factor	0.999939926		
Elevation Adjust. Factor	0.9999862072		
Combined Adjust. Factor	0.9999261341		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF SOUTH ENTRANCE TO MAINTENANCE AREA HQ	N	15.50	50.9
MK # 2	THE CENTER OF HIGHWAY 425	E	10.25	33.6
MK # 3	CENTER OF N ENTRANCE TO THE MAINTENANCE AREA HQ	S	16.00	52.5

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 39 28.5575544

Longitude 91 48 10.0918728

Ellipsoid Height (M): 62.300

Geoid Height (M): -25.680

Location Description

THE STATION IS LOCATED ABOUT 3.22 KM (2.00 MI) NORTH OF MONTICELLO, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT MAINTENANCE AREA HEADQUARTERS. OWNERSHIP--STATE OF ARKANSAS, PO BOX 244, MONTICELLO AR 71655, PHONE 870-367-6276, SUPERVISOR IS DWAIN (DOC) MILES. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 4, LOCATED ON THE WEST SIDE OF MONTICELLO, GO NORTH ON HIGHWAY 425 FOR 3.22 KM (2.00 MI) TO THE ARHD MAINTENANCE AREA HEADQUARTERS AND THE STATION ON THE RIGHT. THE STATION IS PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. 4.88 M (16.01 FT) WEST OF THE BACK OF CURB, 1.17 M (3.84 FT) EAST OF THE BACK OF CURB AND 1.00 M (3.28 FT) WEST OF A FIBERGLASS WITNESS POST. NOTE--THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATION FOR A CLASS A ROD MARK.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station AHTD PAR 1	Date Monumented 1/1/1997	Monumented By AHTD	County GREENE	Route 412	Job Number: 100520, 100496
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Vertical Determined By:</td> <td colspan="2">3rd Order - 3 Wire Level</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>36</td> <td>3 30.7638396</td> </tr> <tr> <td>Longitude</td> <td>90</td> <td>31 9.4758600</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>61.570</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.130</td> <td></td> </tr> </table>	Vertical Determined By:	3rd Order - 3 Wire Level		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	36	3 30.7638396	Longitude	90	31 9.4758600	Ellipsoid Height (M):	61.570		Geoid Height (M):	-28.130	
Vertical Determined By:	3rd Order - 3 Wire Level																						
Elevation Datum:	NAVD 88																						
Geoid Datum:																							
Latitude	36		3 30.7638396																				
Longitude	90		31 9.4758600																				
Ellipsoid Height (M):	61.570																						
Geoid Height (M):	-28.130																						
Horizontal Datum NAD 83 (1997)																							
Northing (M)	192,404.5890																						
Easting (M)	533,397.7140																						
Elevation (M)*	89.794																						
Northing (SFT)	631,247.3891																						
Easting (SFT)	1,749,989.0000																						
Elevation (SFT)*	294.599																						

Convergence Angle	0	51	41.8273491
Scale Factor	0.999970119		
Elevation Adjust. Factor	0.9999859086		
Combined Adjust. Factor	0.9999560280		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

THE STATION IS LOCATED IN PARAGOULD, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 10. OWNERSHIP--STATE OF ARKANSAS, PO BOX 98, PARAGOULD AR 72451-0098, PHONE 870-239-9511, DISTRICT ENGINEER IS JOE BARNETT. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 49 AND 412 IN PARAGOULD, GO WEST ON U.S. HIGHWAY 412 FOR 1.61 KM (1.00 MI) TO THE WEST ENTRANCE OF THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 10 ON THE LEFT. TURN LEFT, SOUTH ON ENTRANCE ROAD FOR 0.08 KM (0.05 MI) TO A GATE IN A BRICK FENCE. PASS THROUGH GATE AND CONTINUE SOUTH FOR 0.08 KM (0.05 MI) TO THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. LOCATED 9.06 M (29.72 FT) NORTH OF THE BACK OF CURB. NOTE--THE SLEEVE DEPTH DOES NOT MEET SPECIFICATIONS FOR A CLASS A ROD MARK.

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CORNER POST IN A CHAIN LINK FENCE	E	8.23	27.0	AZ Mark Station AHTD PAR 2
MK # 2	BACK OF CURB	W	5.51	18.1	Geodetic Azimuth 027 14
MK # 3	BACK OF CURB	S	3.18	10.4	Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Elevation based on 3-wire from NGS Pt. K 251 For more Benchmarks see 100496
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station AHTD PAR 2	Date Monumented 1/1/1997	Monumented By AHTD	County GREENE	Route 412	Job Number: 100564,100445
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	192,520.6919	
Easting (M)	533,455.2650	
Elevation (M)*	89.830	
Northing (SFT)	631,628.3033	
Easting (SFT)	1,750,177.8153	
Elevation (SFT)*	294.718	

Convergence Angle	0	51	43.2059654
Scale Factor	0.999970269		
Elevation Adjust. Factor	0.9999859029		
Combined Adjust. Factor	0.9999561723		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF HIGHWAY 412	S	17.80	58.4
MK # 2	SOUTH END OF THE AHTD SIGN	W	5.06	16.6
MK # 3	BACK OF CURB	N	5.06	16.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD PAR1 Ref Mon # 2 BUTLER Ref Mon # 3 480016 (Brinkley shop)	Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark PAR 1.

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 3 34.5022956
Longitude	90 31 7.1066928
Ellipsoid Height (M):	61.850
Geoid Height (M):	-28.107

Location Description
THE STATION IS LOCATED IN PARAGOULD, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 10. OWNERSHIP--STATE OF ARKANSAS, PO BOX 98, PARAGOULD AR 72451-0098, PHONE 870-239-9511, DISTRICT ENGINEER IS JOE BARNETT. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 49 AND 412 IN PARAGOULD, GO WEST ON HIGHWAY 412 FOR 1.61 KM (1.00 MI) TO STATION ON THE LEFT, SET IN FRONT OF ARHD DISTRICT 10. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. NOTE--THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATION FOR A CLASS A ROD MARK.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station ALLEN	Date Monumented 3/6/2004	Monumented By AHTD	County OUACHITA	Route CR 577	Job Number: NA
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	484,398.2382	
Easting (M)	321,308.4950	
Elevation (M)*		
Northing (SFT)	1,589,229.8865	
Easting (SFT)	1,054,159.6207	
Elevation (SFT)*		

Convergence Angle	0	28	24.8950947
Scale Factor	0.999974699		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 376 AND STATE HIGHWAY 7, SOUTH OF CAMDEN, GO SOUTH ON HIGHWAY 7 FOR 2.5 MILES TO STATE HIGHWAY 376 AND TURN RIGHT (SOUTH), AND GO 3.4 MILES TO ELLIOTT AND OUACHITA COUNTY ROAD 53, TURN RIGHT (WEST) ON COUNTY ROAD 53 AND GO 1.4 MILES TO A CROSS ROAD AND TURN LEFT (SOUTH) ON COUNTY ROAD 51 AND GO 1.5 MILES TO COUNTY ROAD 577 AND TURN LEFT (EAST) AND GO 0.65 MILES TO A GATE, PASS THRU THE GATE AND FOLLOW THE FIELD ROAD FOR 0.1 MILES PASSING A GARDEN ON THE RIGHT AND PAST A HOUSE ON THE LEFT TO THE STATION MARK. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "ALLEN 2004" ON TOP OF A 1.22 METER IRON ROD SET IN CONCRETE FLUSH WITH THE GROUND.</p>				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	SOUTHWEST CORNER OF METAL BUILDIN	0	13.30	43.6	
MK # 2	SOUTHEAST CORNER OF METAL BUILDING	19	13.05	42.8	
MK # 3	2" RED MAPLE TREE	350	11.80	38.7	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPE, TEXARKANA	
Ref Mon # 2 IULM	
Ref Mon # 3 MEM2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
LMYPORT AZ M	1/1/1990	NGS	ARKANSAS	N/A	020329

Zone	Zone Code	Vertical Determined By:
Arkansas South	302	GPS - Unknown Quality
Horizontal Datum	NAD 83 (1997)	
Northing (M)	594,110.0359	
Easting (M)	449,028.7770	
Elevation (M)*	63.260	
Northing (SFT)	1,949,176.0094	
Easting (SFT)	1,473,188.5792	
Elevation (SFT)*	207.546	

Convergence Angle	0	17	54.6344433
Scale Factor	0.999940535		
Elevation Adjust. Factor	0.9999900725		
Combined Adjust. Factor	0.9999306081		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	THE EAST 1 OF 3 THRESHOLD LIGHTS FOR RUNWAY END 17	E-SE	64.10	210.3	AZ Mark Station
MK # 2	THE CENTER OF RUNWAY 10-28	N-NE	40.50	132.9	Geodetic Azimuth
MK # 3	THE NORTHEAST EDGE OF THE TAXIWAY	N-NE	10.10	33.1	Grid Azimuth
					ALMYPORT
					105 44 58.9
					105 27 04.3

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
1970 STA A3 HC	1/1/1970	CGS	GARLAND	70	NA

Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	601,934.9328	
Easting (M)	299,918.1030	
Elevation (M)*	162.190	

Northing (SFT)	1,974,848.1920	
Easting (SFT)	983,981.3096	
Elevation (SFT)*	532.118	

Convergence Angle	0	36	35.4018381
Scale Factor	0.999948967		
Elevation Adjust. Factor	0.9999745477		
Combined Adjust. Factor	0.9999235160		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	THE FIRST RUNWAY LIGHT FROM THE RUNWAY END	E-NE	52.10	170.9
MK # 2	THE SOUTHEAST EDGE OF THE RUNWAY	SE	17.00	55.8
MK # 3	THE CENTER OF THE REIL	W-NW	8.20	26.9

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 28 57.0396252
Longitude	93 5 22.5270132
Ellipsoid Height (M):	134.960
Geoid Height (M):	-27.200

Location Description
THE STATION IS LOCATED ON THE SOUTHWEST SIDE OF HOT SPRINGS, AT THE HOT SPRINGS MEMORIAL FIELD AIRPORT, IN THE NORTHEAST AREA OF THE AIRFIELD, ALONG THE SOUTHEAST SIDE OF AND ABOUT IN LINE WITH RUNWAY END 23. OWNERSHIP--CITY OF HOT SPRINGS, 525 AIRPORT ROAD, HOT SPRINGS NATIONAL PARK AR 71913. AIRPORT MANAGER IS GEORGE DOWNIE, PHONE 501-624-3306. CONTACT HIM FOR PERMISSION TO OCCUPY THIS STATION. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 70 AND 270B ON THE SOUTHWEST SIDE OF HOT SPRINGS, GO SOUTHWEST ON HIGHWAY 70 FOR 1.29 KM (0.80 MI) TO THE PAVED AIRPORT ENTRANCE ROAD ON THE LEFT. TURN LEFT, SOUTH-SOUTHWEST ON THE ROAD FOR 0.32 KM (0.20 MI) TO A GATE ON THE RIGHT AT THE APRON JUST EAST OF THE TERMINAL. TURN RIGHT, SOUTHEAST, PASSING THROUGH THE GATE AND ACROSS THE APRON, PASSING TO THE RIGHT OF THE AIRPORT OFFICE FOR 0.08 KM (0.05 MI) TO THE PARALLEL TAXI FOR RUNWAY 5-23. TURN LEFT, NORTHEAST ALONG THE TAXI FOR 0.39 KM (0.25 MI) TO THE JUNCTION OF RUNWAY END 23 AND THE STATION AHEAD. THE STATION IS SET INSIDE A 12 CM DIAMETER CONCRETE WELL CASING WITH A 50 CM ROUND FOUNDATION SET FLUSH WITH THE GROUND. THE DISK IS RECESSED 30 CM BELOW THE GROUND

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station EPT OF CORREC	Date Monumented 10/21/1996	Monumented By 	County PULASKI	Route 386	Job Number: 6905_5
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	614,650.4003	
Easting (M)	381,650.7832	
Elevation (M)*		
Northing (SFT)	2,016,565.5217	
Easting (SFT)	1,252,132.6112	
Elevation (SFT)*		

Convergence Angle	0	6	43.0691693
Scale Factor	0.999967386		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	
MK # 2			0.00	0.0	
MK # 3			0.00	0.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ADAMS 2 Ref Mon # 2 R 107 Ref Mon # 3 SALIPORT	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 36 6.4062072
Longitude	92 12 0.1641528
Ellipsoid Height (M):	
Geoid Height (M):	

Location Description
A 3/4" X 4' LONG REBAR WAS SET WITH AN ALUMINIMUM CAPP ON TOP FLUSH WITH THE GROUND BY A 4"X4" CONCRETE MONUMENT PROJECTING 2 FT ABOVE THE GROUND IN POOR CONDITION NEAR CENTER OF SECTION 28 T-1-S, R-11-W

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station ARCO PN-1	Date Monumented 7/10/2002	Monumented By AHTD	County ARKANSAS	Route 165	Job Number: 020329, 2735_3
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	601,293.2469	
Easting (M)	442,172.1420	
Elevation (M)*		
Northing (SFT)	1,972,742.9275	
Easting (SFT)	1,450,693.1025	
Elevation (SFT)*		

Convergence Angle	0	15	25.0559610
Scale Factor	0.999948717		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH EDGE "RICELAND" SIGN	301	24.99	82.0
MK # 2	CENTER OF MANHOLE	0	24.08	79.0
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ALMYPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>J 112</td> </tr> <tr> <td>Ref Mon # 3</td> <td>LROC</td> </tr> </table>	Ref Mon # 1	ALMYPORT	Ref Mon # 2	J 112	Ref Mon # 3	LROC	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ALMYPORT							
Ref Mon # 2	J 112							
Ref Mon # 3	LROC							
Comments								

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 34 28 50.4309180

Longitude 91 32 27.2014404

Ellipsoid Height (M): 38.721

Geoid Height (M): -26.410

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-165 AND STATE HWY-130 ON THE EAST SIDE OF STUTTGART, GO NORTH ON HWY-165 FOR 0.10 MILES TO THE STATION ON THE LEFT. 32.50FT. WEST OF THE CENTER OF HWY-165 AND 5.20FT. WEST OF THE BACK OF THE CURB.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station ARCO PN-2	Date Monumented 7/10/2002	Monumented By AHTD	County ARKANSAS	Route 165	Job Number: 020329, 2735_3
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	601,600.2578	
Easting (M)	442,197.4440	
Elevation (M)*		
Northing (SFT)	1,973,750.1791	
Easting (SFT)	1,450,776.1142	
Elevation (SFT)*		

Convergence Angle	0	15	25.6411808
Scale Factor	0.999949094		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	WATER METER	169	16.55	54.3		ARCO PN-3
MK # 2	METAL SIGN POST	008	15.70	51.5		1 33 49
MK # 3						1 18 23

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ALMYPORT Ref Mon # 2 J 112 Ref Mon # 3 LROC	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station ARCO PN-3	Date Monumented 7/10/2002	Monumented By AHTD	County ARKANSAS	Route 165	Job Number: 2735_3
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	601,942.4759	
Easting (M)	442,205.2480	
Elevation (M)*		
Northing (SFT)	1,974,872.9397	
Easting (SFT)	1,450,801.7178	
Elevation (SFT)*		

Convergence Angle	0	15	25.8460625
Scale Factor	0.999949517		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WATER METER	001	7.83	25.7	AZ Mark Station ARCO PN-2
MK # 2	CENTER OF STORM DRAIN MANHOLE	194	13.87	45.5	Geodetic Azimuth 181 33 49
MK # 3					Grid Azimuth 181 18 23

Area Reference Monuments (used for Processing) Ref Mon # 1 ALMYPORT Ref Mon # 2 J 112 Ref Mon # 3 LROC	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ARKANA RESET	1/1/1965	NGS	BAXTER	5	009813,012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	217,009.9618 0.0030
Easting (M)	371,121.0966 0.0030
Elevation (M)*	297.113

Northing (SFT)	711,973.5163
Easting (SFT)	1,217,586.4644
Elevation (SFT)*	974.777

Convergence Angle	0	11	13.4223666
Scale Factor	1.000011462		
Elevation Adjust. Factor	0.9999533755		
Combined Adjust. Factor	0.9999648370		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	17	20.0683752
Longitude	92	19	17.2842636
Ellipsoid Height:	268.760		
Grid Northing (Meters)	217,009.9410		
Grid Easting (Meters)	371,121.0820		

Location Description			
<p>RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1990 STATION MARK WAS RECOVERED IN GOOD CONDITION. OTHER MARKS NOT SEARCHED FOR. STATION IS LOCATED ABOUT 15.6 KM (9.7 MI) EAST OF GASSVILLE, 9.3 KM (5.8 MI) NORTHWEST OF NORFOLK, AND 8.0 KM (5.0 MI) SOUTHEAST OF MOUNTAIN HOME. OWNERSHIP--BAXTER COUNTY. TO REACH THE STATION FROM THE COUNTY COURTHOUSE IN MOUNTAIN HOME. GO SOUTH ON U.S.HIGHWAY 62 FOR 0.11 KM (0.07 MI) TO THE JUNCTION OF STATE HIGHWAY 5. CONTINUE SOUTH AND SOUTHEASTERLY ON STATE HIGHWAY 5 FOR 7.97 KM (4.95 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO SOUTHEAST ON COUNTY ROAD 62 FOR 0.71 KM (0.44 MI) TO THE STATION ON THE LEFT. JUST BEFORE REACHING A GRAVELED ROAD ON THE RIGHT WITH A PIPE GATE. STATION IS A STANDARD CGS STATION MARK DISK STAMPED---ARKANA 1953 1965---. SET IN THE TOP OF A 30-CM ROUND CONCRETE POST THAT IS FLUSH WITH THE GROUND. IT IS 15.9 KM (9.9 MI) NORTHEAST OF THE EXTENDED CENTER OF A GRAVELED ROAD WITH A PIPE GATE, 7.7 M (25.3 FT) EAST OF THE CENTER OF A GRAVELED ROAD, AND 0.5 M (1.6 FT) SOUTHEAST OF A METAL WITNESS POST. R.M. NO. 3 IS NORTHEAST OF THE STATION AND 46 FEET NORTH OF THE CENTER OF THE DRIVEWAY. THE MARK</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	ARKANA RM 3	57 28 00		10.25	33.6
MK # 2	ARKANA RM 1	58 59 00		7.03	23.1
MK # 3	ARKANA RM2	171 51 00		7.10	23.3

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <p>ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A", UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station ARP 2	Date Monumented 1/1/1970	Monumented By CGS	County BOONE	Route 980	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	214,524.0180	
Easting (M)	296,329.7820	
Elevation (M)*	412.780	
Northing (SFT)	703,817.5491	
Easting (SFT)	972,208.6264	
Elevation (SFT)*	1,354.262	

Convergence Angle	0	40	16.6874161
Scale Factor	1.000005684		
Elevation Adjust. Factor	0.9999352256		
Combined Adjust. Factor	0.9999409092		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST EDGE OF THE RUNWAY (SLOPE MEASUREMENT)	E	76.10	249.7
MK # 2	A TAXIWAY LIGHT	SW	18.20	59.7
MK # 3	WEST EDGE OF THE TAXIWAY	W	12.10	39.7

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 15 41.2445160
Longitude	93 9 13.1036904
Ellipsoid Height (M):	384.520
Geoid Height (M):	-28.260

Location Description
<p>THE STATION IS LOCATED ON THE NORTHWEST SIDE OF HARRISON, AT THE BOONE COUNTY AIRPORT, AT THE TOP OF A RISE NEAR THE CENTER OF THE AIRFIELD, AND ACROSS THE PARALLEL TAXIWAY FROM THE WINDSOCK. OWNERSHIP--CITY OF HARRISON, 2424 AIRPORT ROAD, HARRISON AR 72601, AIRPORT MANAGER IS JUDY MCCUTCHTON, PHONE 501-741-6954. FBO IS RICH BENSON, PHONE 501-741-4510. CONTACT ONE OF THEM IN ADVANCE FOR PERMISSION TO OCCUPY THIS STATION. TO REACH FROM THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 62 AND 65, ABOUT 10 KM (6.20 MI) NORTHWEST OF HARRISON, GO SOUTHEAST ON HIGHWAYS 62 AND 65 FOR 4.03 KM (2.50 MI) TO A PAVED ROAD RIGHT, COUNTY ROAD 980. TURN RIGHT, SOUTHERLY ON COUNTY ROAD 980 FOR 0.74 KM (0.45 MI) TO THE ENTRANCE ROAD TO THE TERMINAL ON THE RIGHT. CONTINUE SOUTH ON COUNTY ROAD 980 FOR 0.12 KM (0.05 MI) TO A PAVED ROAD RIGHT LEADING TO CROWN AVIATION. TURN RIGHT, WEST ON THE ROAD FOR 0.08 KM (0.05 MI) TO A GATE ON THE LEFT BETWEEN TWO HANGARS. TURN LEFT, SOUTH, PASSING THROUGH THE GATE FOR 0.08 KM (0.05 MI) TO THE APRON. TURN RIGHT, NORTHWEST ACROSS THE APRON FOR 0.08 KM (0.05 MI) TO THE PARALLEL TAXIWAY. TURN LEFT, SOUTH ALONG THE TAXIWAY FOR</p>

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station B 307	Date Monumented 1/1/1985	Monumented By NOAA	County Miller	Route 82	Job Number: 030349
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	486,472.6432	
Easting (M)	215,122.7410	
Elevation (M)*	113.806	
Northing (SFT)	1,596,035.6636	
Easting (SFT)	705,781.8594	
Elevation (SFT)*	373.380	

Convergence Angle	-1	6	45.9288069
Scale Factor	0.999973700		
Elevation Adjust. Factor	0.9999821404		
Combined Adjust. Factor	0.9999558408		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Combination pole	NE	2.20	7.2	460039
MK # 2	Fence corner	E	1.60	5.2	277 08 42
MK # 3					278 15 28

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 460026, 460026A	This is a NGS first order benchmark.
Ref Mon # 2 ARHP, B 307	
Ref Mon # 3 TXMA, 460001	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station B 316	Date Monumented	Monumented By	County LAWRENCE	Route 63	Job Number: 100646
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 1st Order by NGS
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 192,963.1869		Geoid Datum:
Easting (M) 488,432.8970		Latitude 36 4 7.1278752
Elevation (M)* 79.017		Longitude 91 1 5.8817280
Northing (SFT) 633,080.0557		Ellipsoid Height (M): 51.059
Easting (SFT) 1,602,466.9296		Geoid Height (M): -27.957
Elevation (SFT)* 259.240		

Convergence Angle 0 34 16.5003409	Scale Factor 0.999971592	Location Description
Elevation Adjust. Factor 0.9999875999	Combined Adjust. Factor 0.9999591922	For location description and elevation see NGS data sheet. This station is a 1st order NGS benchmark.
SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station 380008
MK # 2					Geodetic Azimuth 290 35 49
MK # 3					Grid Azimuth 290 01 32

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARPG Ref Mon # 3 ARMH	Comments Mark established by NGS 1st Order Levels.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station B 324	Date Monumented 11/6/2008	Monumented By AHTD	County Greene	Route 69	Job Number: 100445
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	189,863.4389	
Easting (M)	536,463.6660	
Elevation (M)*	79.884	
Northing (SFT)	622,910.2991	
Easting (SFT)	1,760,047.8775	
Elevation (SFT)*	262.088	

Convergence Angle	0	52	52.1985543
Scale Factor	0.999966837		
Elevation Adjust. Factor	0.9999874637		
Combined Adjust. Factor	0.9999543011		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Water well	120	5.30	17.4	AZ Mark Station A 324
MK # 2	Water well w/concrete foundation	161	12.04	39.5	Geodetic Azimuth 357 55 58
MK # 3	Power service pole	180	21.46	70.4	Grid Azimuth 357 03 06

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG, ARBT BLMM	Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS marks K 187, L 187, PARAGOULD BM, L 32, O 8 4, M 187, FIRST, FIRST AZ MK, Q 188.
Ref Mon # 2 280012,280012A	
Ref Mon # 3 280006,280006A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station B 326	Date Monumented 5/7/2009	Monumented By AHTD	County POPE	Route 7	Job Number: 080377, 080606
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	108,627.3912	0.0030			
Easting (M)	296,504.7535	0.0020			
Elevation (M)*	112.074				
Northing (SFT)	356,388.3660				
Easting (SFT)	972,782.6788				
Elevation (SFT)*	367.696				

Convergence Angle	0	39	44.0774950		
Scale Factor	0.999947569				
Elevation Adjust. Factor	0.9999824122				
Combined Adjust. Factor	0.9999299822				

SUPERCEDED CONTROL					
Horizontal Datum	NAD 83 (1997)				
Latitude	35	18	25.5059676		
Longitude	93	8	17.0631636		
Ellipsoid Height:	83.166				
Grid Northing (Meters)	108,627.3911				
Grid Easting (Meters)	296,504.7540				

Location Description					
SOUTHEAST CORNER OF STATE HIGHWAY 7 AND ASPEN LANE IN RUSSELLVILLE.					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 ARLR Ref Mon # 3 ARHR (ARHP)	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station BATEPORT	Date Monumented 1/1/1990	Monumented By NGS	County INDEPENDENCE	Route 167	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	154,528.5640	
Easting (M)	431,864.0720	
Elevation (M)*	141.400	
Northing (SFT)	506,982.4637	
Easting (SFT)	1,416,874.0429	
Elevation (SFT)*	463.910	

Convergence Angle	0	12	17.8207228
Scale Factor	0.999938972		
Elevation Adjust. Factor	0.9999778102		
Combined Adjust. Factor	0.9999167836		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WEST EDGE OF RUNWAY 7-25	N-NW	49.80	163.4	TEPORT AZ MK (FF2138)
MK # 2	TAXIWAY CENTERLINE	S-SE	48.70	159.8	Geodetic Azimuth 066 05 58.2
MK # 3	A CONNECTOR CENTERLINE	E-NE	27.30	89.6	Grid Azimuth 065 53 40.4

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station BATESVILLE	Date Monumented 1/1/1989	Monumented By USC&GS	County INDEPENDENCE	Route 167	Job Number: 050000,050186
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	160,002.8740	
Easting (M)	432,459.0620	
Elevation (M)*	122.307	
Northing (SFT)	524,942.7624	
Easting (SFT)	1,418,826.1059	
Elevation (SFT)*	401.270	

Convergence Angle	0	12	32.0599217
Scale Factor	0.999941460		
Elevation Adjust. Factor	0.9999808064		
Combined Adjust. Factor	0.9999222675		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	LIGHT POLE	125	4.80	15.7	
MK # 2	NATURAL GAS RISER	18	9.50	31.2	
MK # 3	LIGHT POLE	293	5.15	16.9	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="FAA 7M9 A"/> Ref Mon # 2 <input type="text" value="NEWSPORT"/> Ref Mon # 3 <input type="text" value="BATEPORT"/>	NGS 2nd Order Benchmark

Vertical Determined By: 2nd Order by NGS

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 46 30.0709560

Longitude 91 38 27.5768196

Ellipsoid Height (M): 94.801

Geoid Height (M): -27.506

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAY 25 AND STATE HIGHWAY 69 LOCATED ON THE NORTH SIDE OF BATESVILLE, GO SOUTH ON U.S. HIGHWAY 167 FOR 1.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS LOCATED AT THE INTERSECTION OF 12TH AND BOSWELL STREETS IN THE VETERANS MEMORIAL PLAZA. THE STATION IS 14.33 METERS SOUTHEAST OF THE CENTER OF BOSWELL STREET, 32.60 METERS NORTHEAST OF THE CENTER OF 12TH STREET, AND 14.63 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 167. THE STATION MARK IS A STANDARD USC&GS TRIANGULATION STATION DISK STAMPED "BATESVILLE 1934" SET IN THE TOP OF A ROUND CONCRETE POST. THE MARK IS ABOUT 0.50 METERS BELOW THE SURFACE LEVEL OF THE PARK. IT IS ENCASED IN A ROUND PIPE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
BENTONVILLE 44	1/1/2000	OF BENTONVILLE	BENTON	72	090153

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	231,232.7440
Easting (M)	206,128.8790
Elevation (M)*	345.960
Northing (SFT)	758,636.0943
Easting (SFT)	676,274.4972
Elevation (SFT)*	1,135.037

Convergence Angle	-1	15	27.4183594
Scale Factor	1.000036787		
Elevation Adjust. Factor	0.9999457105		
Combined Adjust. Factor	0.9999824955		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
TO REACH THE STATION FROM THE JUNCTION OF I 540 AND STATE HIGHWAY 72, GO EAST ON STATE HIGHWAY 72 FOR 1.67 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.50 METERS WEST OF THE CENTER OF STATE HIGHWAY 72, 6.30 METERS NORTH OF THE CENTER OF A CONCRETE DRIVE, AND 3.00 METERS EAST OF A WITNESS POST. THE STATION MARK IS A 90 mm BRASS CAP STAMPED " CITY OF BENTONVILLE 44 2000" SET IN A CONCRETE MONUMENT FLUSH WITH THE GROUND.				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH GATE POST	340	6.40	21.0
MK # 2	SOUTH GATE POST	308	3.60	11.8
MK # 3	CORNER OF BRICK FENCE POST	249	3.34	11.0

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	CASSPORT	
Ref Mon # 2	V 26	
Ref Mon # 3	SILLOAM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station BENTPORT	Date Monumented 1/1/1990	Monumented By USC&GS	County BENTON	Route N/A	Job Number: 090174, 090834
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	225,570.2711	
Easting (M)	200,808.6820	
Elevation (M)*	395.012	
Northing (SFT)	740,058.4644	
Easting (SFT)	658,819.8175	
Elevation (SFT)*	1,295.969	

Convergence Angle	-1	17	28.6382228
Scale Factor	1.000024276		
Elevation Adjust. Factor	0.9999380136		
Combined Adjust. Factor	0.9999622881		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND 71B IN SOUTH BENTONVILLE, GO SOUTHERLY ON U.S. HIGHWAY 71 FOR 1.25 KM (0.78 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO WEST ON THE AIRPORT ENTRANCE ROAD FOR 0.58 KM (0.36 MI) TO A GRAVELED ROAD ON THE RIGHT. TURN RIGHT AND GO NORTH ON THE GRAVELED ROAD FOR 0.19 KM (0.12 MI) TO A DRIVEWAY WITH A LOCKED CHAIN GATE ON THE LEFT. TURN LEFT AND GO WEST ON THE DRIVEWAY PASSING THROUGH THE GATE AND THE AIRPORT OFFICE ON THE RIGHT. BEAR RIGHT AND GO NORTH ACROSS AN APRON TO A CONNECTOR LOCATED AT THE NORTH EDGE OF THE APRON. TURN LEFT AND GO WEST ALONG THE CONNECTOR TO THE JUNCTION OF THE RUNWAY AND THE STATION ON THE RIGHT. THE STATION IS 21.9 METERS EAST OF THE CENTER OF THE RUNWAY, 15.5 METERS NORTH OF THE CONNECTOR CENTERLINE, AND 7.9 METERS NORTHEAST FROM THE CURVED PAVEMENT AT THE JUNCTION OF THE RUNWAY AND CONNECTOR. THE STATION MARK IS A PUNCH HOLE IN THE TOP OF A 5/8 INCH STAINLESS STEEL ROD, ENCASED IN A 5-INCH PVC PIPE WITH A NGS LOGO CAP.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: CASSPORT</p> <p>Ref Mon # 2: V 26</p> <p>Ref Mon # 3: JAY</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ENTPORT AZ M	1/1/1990	USC&GS	BENTON	N/A	090174,009834

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	226,133.8171	
Easting (M)	200,819.1130	
Elevation (M)*	392.405	
Northing (SFT)	741,907.3649	
Easting (SFT)	658,854.0399	
Elevation (SFT)*	1,287.415	

Convergence Angle	-1	17	28.6912284
Scale Factor	1.000025459		
Elevation Adjust. Factor	0.9999384227		
Combined Adjust. Factor	0.9999638801		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND 71B IN SOUTH BENTONVILLE, GO SOUTHERLY ON U.S. HIGHWAY 71 FOR 1.25 KM (0.78 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO WEST ON THE AIRPORT ENTRANCE ROAD FOR 0.58 KM (0.36 MI) TO A GRAVELED ROAD ON THE RIGHT. TURN RIGHT AND GO NORTH ON THE GRAVELED ROAD FOR 0.19 KM (0.12 MI) TO A DRIVEWAY WITH A LOCKED CHAIN GATE ON THE LEFT. TURN LEFT AND GO WEST ON THE DRIVEWAY PASSING THROUGH THE GATE AND THE AIRPORT OFFICE ON THE RIGHT AND NORTHWEST ACROSS AN APRON AND WEST ALONG A TAXIWAY FOR 0.14 KM (0.09 MI) TO THE RUNWAY. TURN RIGHT AND GO NORTH ON THE RUNWAY FOR 0.62 KM (0.39 MI) TO THE STATION ON THE RIGHT. THE STATION IS 3.65 METERS EAST OF THE EAST EDGE OF RUNWAY END 17 AND 3.55 METERS EAST-SOUTHEAST FROM THE EAST 1 OF 3 RUNWAY END LIGHTS. THE STATION MARK IS A PUNCH HOLE IN THE TOP OF A 5/8 INCH STAINLESS STEEL ROD, ENCASED IN A 5-INCH PVC PIPE WITH A NGS LOGO CAP.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: CASSPORT</p> <p>Ref Mon # 2: V 26</p> <p>Ref Mon # 3: JAY</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station BMD3	Date Monumented 8/31/2017	Monumented By AHTD	County JEFFERSON	Route 79	Job Number: 020630
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	588,683.6964	0.0020			
Easting (M)	419,402.1736	0.0020			
Elevation (M)*	59.842				
Northing (SFT)	1,931,373.0939				
Easting (SFT)	1,375,988.6312				
Elevation (SFT)*	196.330				

Convergence Angle	0	7	5.0235980
Scale Factor	0.999935330		
Elevation Adjust. Factor	0.9999906090		
Combined Adjust. Factor	0.9999259396		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
From the Wabbaseka United Methodist Church on Hwy 79 go North for 0.7 miles to station on the left a standard Corp of Engineer cap. 30' NE of a witness post, 28' W of CL Hwy 79.			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	witness post		9.14	30.0	
MK # 2	CL HWY. 79		8.53	28.0	
MK # 3					

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARPB	
Ref Mon # 2	ARLR	
Ref Mon # 3	ARWY	
		Position and elevation updated by crew S5113 in August 2017 during job 020630, determined by static GPS constraining the ortho. Ht. at ARPB.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
BRINKLEYPORT	1/1/1987	NGS	MONROE	70	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	646,218.8521
Easting (M)	475,444.5830
Elevation (M)*	57.251
Northing (SFT)	2,120,136.3506
Easting (SFT)	1,559,854.4361
Elevation (SFT)*	187.831

Convergence Angle	0	27	42.8144506
Scale Factor	1.000028221		
Elevation Adjust. Factor	0.9999910155		
Combined Adjust. Factor	1.0000192363		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>THE STATION IS LOCATED 6.5 KM (4.05 MI) WEST OF WHEATLEY, 1.6 KM (1.00 MI) EAST OF BRINKLEY, AT THE FRANK FEDERER MEMORIAL AIRPORT, IN THE NORTHEAST AREA OF THE AIRFIELD, IN THE SOUTHWEST QUADRANT OF THE JUNCTION OF THE RUNWAY AND A TAXIWAY FROM THE APRON AND OFFICE. OWNERSHIP--CITY OF BRINKLEY, AIRPORT MANAGER IS LEWIS DALTON, 233 WEST CEDAR STREET, BRINKLEY AR 72021, PHONE 501-734-1950. TO REACH THE STATION FROM THE OVERPASS AT THE JUNCTION OF INTERSTATE HIGHWAY 40 AND U.S. HIGHWAY 49 (EXIT 216) ON THE NORTH SIDE OF BRINKLEY, GO SOUTHERLY ON HIGHWAY 49 FOR 2.4 KM (1.50 MI) TO THE JUNCTION OF U.S. HIGHWAY 70 EAST. TURN LEFT, EAST ON HIGHWAY 70 FOR 1.6 KM (1.00 MI) TO AIRPORT AVENUE ON THE RIGHT. TURN RIGHT, SOUTH ON THE ROAD, PASSING BETWEEN A LARGE BRICK BUILDING AND A ROW OF RED METAL STORAGE SHEDS, FOR 0.16 KM (0.10 MI) TO A METAL HANGAR ON THE LEFT AND A TAXIWAY STRAIGHT AHEAD. CONTINUE AHEAD, SOUTH, THEN SOUTHEAST ALONG THE TAXIWAY FOR 0.32 KM (0.20 MI) TO THE JUNCTION OF THE RUNWAY AND THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD IN A 2.5 CM GREASE FILLED SLEEVE 90 CM LONG ENCASED IN A 12.7 CM</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	RUNWAY CENTER	W		27.60	90.6
MK # 2	TAXIWAY CENTER	S		14.00	45.9
MK # 3	TAXIWAY LIGHT AT JUNCTION OF RUNWAY AND TAXIWAY	W-SW		11.60	38.1

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
URLINGTON RES	4/1/1994	erial Data Servic	BOONE	65	NA

Zone	Zone Code	Vertical Determined By:
Arkansas North	301	LEVEL - Unkown Quality
Horizontal Datum	NAD 83 (1986)	
Northing (M)	233,225.5911	
Easting (M)	288,867.3562	
Elevation (M)*	500.479	
Northing (SFT)	765,174.2935	
Easting (SFT)	947,725.6511	
Elevation (SFT)*	1,641.988	

Convergence Angle	0	43	16.1153549
Scale Factor	1.000044585		
Elevation Adjust. Factor	0.9999214647		
Combined Adjust. Factor	0.9999660462		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description	Azimuth	Distance		
		Meters	Feet	
MK # 1				AZ Mark Station
MK # 2				Geodetic Azimuth
MK # 3				Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station BUTLER	Date Monumented 3/29/2002	Monumented By AHTD	County INDEPENDENCE	Route 167	Job Number: NA
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	161,696.2150				
Easting (M)	432,866.2190				
Elevation (M)*	87.828				
Northing (SFT)	530,498.3320				
Easting (SFT)	1,420,161.9202				
Elevation (SFT)*	288.149				

Convergence Angle	0	12	41.6383266
Scale Factor	0.999942378		
Elevation Adjust. Factor	0.9999862171		
Combined Adjust. Factor	0.9999285959		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	BATEPORT
Ref Mon # 3	NEWSPORT

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station C 184	Date Monumented 6/10/2002	Monumented By NGS	County CRAIGHEAD	Route N/A	Job Number: 100306
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	165,839.9969	
Easting (M)	537,882.4730	
Elevation (M)*	69.496	
Northing (SFT)	544,093.3898	
Easting (SFT)	1,764,702.7468	
Elevation (SFT)*	228.005	

Convergence Angle	0	53	16.5209154
Scale Factor	0.999944268		
Elevation Adjust. Factor	0.9999890939		
Combined Adjust. Factor	0.9999333625		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	254	0.85	2.8
MK # 2	TELEPHONE BOX	126	1.40	4.6
MK # 3	SOUTH END REINFORCED CONCRETE PIPE	335	7.50	24.6

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>VILLPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>AHTD PAR 1</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MANIPORT</td> </tr> </table>	Ref Mon # 1	VILLPORT	Ref Mon # 2	AHTD PAR 1	Ref Mon # 3	MANIPORT	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	VILLPORT						
Ref Mon # 2	AHTD PAR 1						
Ref Mon # 3	MANIPORT						

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 49 6.7230336

Longitude 90 28 26.7439332

Ellipsoid Height (M): 41.596

Geoid Height (M): -27.873

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 158 LOCATED 10 MILES EAST OF JONESBORO, GO EAST ON HIGHWAY 18 0.15 MILES TO CRAIGHEAD COUNTY ROAD 800 ON THE RIGHT. TURN RIGHT (SOUTH) ON CRAIGHEAD COUNTY ROAD 800 0.25 MILES TO THE STATION ON THE LEFT. THE STATION IS 7.50 METERS SOUTH OF THE CENTERLINE OF A GRAVEL ROAD (ABANDONED RAILROAD BED), 5.75 METERS EAST OF THE CENTERLINE OF A GRAVEL ROAD, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A U.S. COAST GUARD AND GEODETIC SURVEY BENCH MARK DISC STAMPED C 184 1956 SET IN TOP OF A 0.30 METER CONCRETE POST PROJECTING 3 INCHES ABOVE THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station C 320	Date Monumented 2/13/2008	Monumented By AHTD	County PULASKI	Route NA	Job Number: 061201
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	623,259.6860	
Easting (M)	375,692.6680	
Elevation (M)*	99.676	
Northing (SFT)	2,044,811.1532	
Easting (SFT)	1,232,585.0283	
Elevation (SFT)*	327.020	

Convergence Angle	0	8	54.4379559
Scale Factor	0.999981680		
Elevation Adjust. Factor	0.9999843578		
Combined Adjust. Factor	0.9999660381		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	WATER METER	85	12.80	42.0		600063
MK # 2	POWER POLE W/GUY	118	13.56	44.5		164 45 20
MK # 3						164 54 14

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARBT Ref Mon # 3 ARHP	3 WIRE LEVELS FROM C 320 TO B 287 ON THE 3/2008 BY S5102.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
CARROLL PN-1	7/15/2002	AHTD	CARROLL	143	9562_1

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	229,635.4031	
Easting (M)	254,507.4810	
Elevation (M)*		
Northing (SFT)	753,395.4850	
Easting (SFT)	834,996.6272	
Elevation (SFT)*		

Convergence Angle	0	56	37.2703028
Scale Factor	1.000035299		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth
					CARROLL CO PN-2
					175 24 07
					176 20 44

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	CASSPORT
Ref Mon # 2	V 26
Ref Mon # 3	LROC

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
CARROLL PN-2	7/15/2002	AHTD	CARROLL	62	9562_1

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	229,377.2911	
Easting (M)	254,523.9670	
Elevation (M)*		
Northing (SFT)	752,548.6626	
Easting (SFT)	835,050.7151	
Elevation (SFT)*		

Convergence Angle	0	56	36.7861776
Scale Factor	1.000034727		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	175	7.75	25.4
MK # 2	WEST END OF CMP	100	15.95	52.3
MK # 3	"CITGO" SIGN	130	12.25	40.2

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>CASSPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>V 26</td> </tr> <tr> <td>Ref Mon # 3</td> <td>LROC</td> </tr> </table>	Ref Mon # 1	CASSPORT	Ref Mon # 2	V 26	Ref Mon # 3	LROC	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	CASSPORT							
Ref Mon # 2	V 26							
Ref Mon # 3	LROC							
Comments								

Location Description	
THE STATION IS LOCATED AT THE SOUTHEAST CORNER OF THE JUNCTION OF HWY-62, HWY-143 NORTH AND CARROLL COUNTY ROAD 980 SOUTH ABOUT 8 MILES EAST OF EUREKA SPRINGS. 15.3 METERS SOUTH OF THE CENTER OF HWY-62 AND 10.7 METERS EAST OF THE CENTER OF COUNTY ROAD 980.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
CARROLL PN-3	7/15/2002	AHTD	CARROLL	62	9562_1

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	229,163.0971	
Easting (M)	254,506.1890	
Elevation (M)*		
Northing (SFT)	751,845.9277	
Easting (SFT)	834,992.3884	
Elevation (SFT)*		

Convergence Angle	0	56	37.1188461
Scale Factor	1.000034253		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-62, HWY-143 AND CARROLL COUNTY ROAD 980 ABOUT 8 MILES EAST OF EUREKA SPRINGS, GO SOUTH ON COUNTY ROAD 980 FOR 0.12 MILES TO THE STATION ON THE RIGHT. 4.4 METERS WEST OF THE CENTER OF COUNTY ROAD 980 AND 3.5 METERS FROM THE CENTER OF A GATED FIELD ENTRANCE.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF A CMP	285	2.65	8.7
MK # 2	POWER POLE	050	16.70	54.8
MK # 3	NORTHERN MOST STEEL GATE POST	270	14.00	45.9

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 CASSPORT</p> <p>Ref Mon # 2 V 26</p> <p>Ref Mon # 3 LROC</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station CDH A	Date Monumented 1/1/1984	Monumented By NGS	County OUACHITA	Route 79	Job Number: 070258
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	507,281.8652	
Easting (M)	329,374.9720	
Elevation (M)*	38.360	
Northing (SFT)	1,664,307.2527	
Easting (SFT)	1,080,624.3873	
Elevation (SFT)*	125.853	

Convergence Angle	0	25	33.8238849
Scale Factor	0.999943034		
Elevation Adjust. Factor	0.9999939801		
Combined Adjust. Factor	0.9999370144		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF THE REIL	SE	8.10	26.6
MK # 2	NORTHEAST CORNER OF THE RUNWAY	E	28.70	94.2
MK # 3	RUNWAY CENTER	E	43.80	143.7

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 37 53.6334204
Longitude	92 45 40.4849160
Ellipsoid Height (M):	12.160
Geoid Height (M):	-26.210

Location Description
<p>THE STATION IS LOCATED ABOUT 5 KM (3.10 MI) NORTHEAST OF CAMDEN, AT HARRELL FIELD AIRPORT, NEAR THE NORTH END OF THE AIRFIELD, ALONG THE EAST SIDE OF RUNWAY END 18 AND IN LINE WITH THE RUNWAY END. OWNERSHIP--CITY OF CAMDEN, FBO IS JIM ADVANT, PO BOX 26, CAMDEN AR 71701, PHONE 501-574-2642. CONTACT HIM FOR PERMISSION TO OCCUPY THIS STATION. TO REACH THE STATION FROM THE UNDERPASS AT THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 4, ABOUT 5 KM (3.10 MI) NORTHEAST OF CAMDEN, GO NORTHEAST ON HIGHWAY 79 FOR 0.48 KM (0.30 MI) TO AIRPORT ROAD ON THE RIGHT. TURN RIGHT, EASTERLY ON THE ROAD FOR 0.13 KM (0.10 MI) TO A PAVED ROAD RIGHT, JUST BEFORE REACHING BUILDING NUMBER 3 ON THE RIGHT. TURN RIGHT, SOUTH-SOUTHWEST ON THE ROAD FOR 0.08 KM (0.05 MI) TO A PARKING LOT ON THE SOUTH SIDE OF THE BUILDING AND A GATE IN THE PIPE FENCE ON THE LEFT AT THE APRON. TURN LEFT, EAST-SOUTHEAST, PASSING THROUGH THE GATE AND ACROSS THE APRON FOR 0.18 KM (0.10 MI) TO THE JUNCTION OF A TAXIWAY. TURN LEFT, NORTH ALONG THE TAXIWAY FOR 0.38 KM (0.25 MI) TO THE JUNCTION OF THE RUNWAY. CROSS THE RUNWAY, THEN TURN LEFT, NORTH ALONG THE RUNWAY FOR 1.36 KM (0.85 MI) TO THE STATION ON THE</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
HERPORT AZ M	1/1/1990	NGS	SHARP	62	050146,050098

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	214,360.0590	
Easting (M)	439,255.5190	
Elevation (M)*	209.560	
Northing (SFT)	703,279.6269	
Easting (SFT)	1,441,124.1486	
Elevation (SFT)*	687.531	

Convergence Angle	0	15	15.1160422
Scale Factor	1.000006348		
Elevation Adjust. Factor	0.9999671143		
Combined Adjust. Factor	0.9999734621		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>BUTLER</td> </tr> <tr> <td>Ref Mon # 2</td> <td>Q 313</td> </tr> <tr> <td>Ref Mon # 3</td> <td>FAA 7M9 A</td> </tr> </table>	Ref Mon # 1	BUTLER	Ref Mon # 2	Q 313	Ref Mon # 3	FAA 7M9 A	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV BY 3 WIRE FROM NGS PT D 167</td> </tr> </table>	Comments	ELEV BY 3 WIRE FROM NGS PT D 167
Ref Mon # 1	BUTLER								
Ref Mon # 2	Q 313								
Ref Mon # 3	FAA 7M9 A								
Comments									
ELEV BY 3 WIRE FROM NGS PT D 167									

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 15 52.8035472
Longitude	91 33 47.3630976
Ellipsoid Height (M):	181.300
Geoid Height (M):	-28.210

Location Description
<p>THE STATION IS LOCATED ABOUT 12 KM (7.45 MI) EAST OF AGNOS, 10 KM (6.20 MI) SOUTHWEST OF HARDY, 6 KM (3.70 MI) NORTHEAST OF ASH FLAT, AT THE CHEROKEE VILLAGE AIRPORT, NEAR MIDFIELD ALONG THE NORTHWEST SIDE OF THE RUNWAY, JUST NORTHEAST OF THE SOUTHWEST END OF A LOW RISE. OWNERSHIP--CITY OF ASH FLAT. THE AIRPORT IS LEASED BY ED MARKLINE, 20 AIRPORT LANE, ROUTE 4, PO BOX 1, HARDY AR 72542. HE IS ALSO THE AIRPORT MANAGER, PHONE 501-257-2289. CONTACT HIM FOR PERMISSION TO OCCUPY THIS STATION. AN ESCORT MAY BE REQUIRED. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 62 AND 63 IN HARDY, GO SOUTHWESTERLY ON HIGHWAY 63 FOR 10.7 KM (6.65 MI) TO THE SOUTHWEST ONE OF TWO JUNCTIONS OF STATE HIGHWAY 175S ON THE RIGHT. CONTINUE AHEAD, SOUTHWEST ON HIGHWAY 63 FOR 1.05 KM (0.65 MI) TO A PAVED ROAD RIGHT, ALLEGHENY DRIVE. TURN RIGHT, NORTHERLY ON ALLEGHENY DRIVE FOR 1.14 KM (0.70 MI) TO A PAVED T-JUNCTION. TURN LEFT, WEST AND NORTHWEST ON AIRPORT LANE FOR 0.13 KM (0.10 MI) TO A GATE. CONTINUE AHEAD NORTHWEST, PASSING THROUGH THE GATE AND ACROSS THE APRON FOR ABOUT 40 M (131.2 FT) TO THE RUNWAY. TURN LEFT, SOUTHWEST ALONG THE RUNWAY FOR 0.63 KM (0.40 MI) TO THE STATION</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station CLARPORT	Date Monumented 1/1/1990	Monumented By NGS	County JOHNSON	Route 64	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	127,071.8191	
Easting (M)	270,607.6540	
Elevation (M)*	135.900	
Northing (SFT)	416,901.4598	
Easting (SFT)	887,818.6115	
Elevation (SFT)*	445.865	

Convergence Angle	0	49	46.7102420
Scale Factor	0.999937903		
Elevation Adjust. Factor	0.9999786733		
Combined Adjust. Factor	0.9999165776		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 100px;"> Comments </div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 28 13.0298016
Longitude	93 25 32.6941356
Ellipsoid Height (M):	106.880
Geoid Height (M):	-29.020

Location Description
<p>STATION IS LOCATED ABOUT 21.6 KM (13.4 MI) NORTHEAST OF COAL HILL, 7.6 KM (4.7 MI) NORTHWEST OF LAMAR, AND 3.4 KM (2.1 MI) EAST-NORTHEAST OF CLARKSVILLE. AT THE CLARKSVILLE MUNICIPAL AIRPORT. OWNERSHIP--CITY OF CLARKSVILLE, P.O.BOX 583, CLARKSVILLE AR 72803. AIRPORT MANAGER IS GEORGE EVANS, P.O.BOX 1072, CLARKSVILLE AR 72830. PHONE IS 501-754-8899. TO REACH THE STATION FROM THE COUNTY COURTHOUSE IN CLARKSVILLE, GO WESTERLY ON U.S.HIGHWAY 64 FOR 2.91 KM (1.81 MI) TO A PAVED DRIVEWAY ON THE LEFT. TURN LEFT AND GO NORTH ON THE AIRPORT ENTRANCE ROAD AND ACROSS A PARKING LOT FOR 0.06 KM (0.04 MI) TO A GATE. PASS THROUGH THE GATE AND GO NORTHWEST ACROSS AN APRON AND NORTH ALONG A TAXIWAY FOR 0.11 KM (0.07 MI) TO THE RUNWAY. TURN RIGHT AND GO ALONG THE RUNWAY TO A TURN AROUND AND THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE IN THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE WITH A NGS LOGO CAP, IT IS 48.0 M (157.5 FT) WEST-SOUTHWEST OF THE FIRST RUNWAY LIGHT EAST OF THE TURN AROUND, 7.4 M (24.3 FT) SOUTH FROM THE SOUTH EDGE OF THE TURN AROUND, 0.65 M (2.13 FT) NORTH FROM A CARSONITE WITNESS POST. RUNWAY HAS BEEN EXTENDED 1520 FEET TO 4520 FEET. THE DISPLACED</p>

AZ Mark Station	ARPORT AZ MK (FG1942)
Geodetic Azimuth	270 56 57.0
Grid Azimuth	271 46 43.7

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
COTTON 2 RM 5	1/1/1977	NGS	PEMISCOT / MC	N/A	NA

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	194,011.8239	
Easting (M)	607,612.9040	
Elevation (M)*	86.064	
Northing (SFT)	636,520.4589	
Easting (SFT)	1,993,476.6692	
Elevation (SFT)*	282.362	

Convergence Angle	1	20	27.8714507
Scale Factor	0.999970354		
Elevation Adjust. Factor	0.9999864939		
Combined Adjust. Factor	0.9999568483		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>THE STATION IS LOCATED ABOUT 20.2 KM (12.55 MI) EAST-SOUTHEAST OF STEELE, MO., 12.9 KM (8.00 MI) SOUTH OF CARUTHERSVILLE, MO., AND 0.4 KM (0.25 MI) EAST OF COTTONWOOD POINT. IN THE GRASS, ON TOP OF THE LEVEE, JUST SOUTHEAST OF THE JUNCTION OF THE GRAVEL LEVEE ROAD AND A GRAVEL ROAD LEADING NORTHEAST, DOWN FROM THE TOP OF THE LEVEE. OWNERSHIP--PEMISCOT COUNTY, CITY CLERK IS JOHN ALFORD, COUNTY COURTHOUSE, CARUTHERSVILLE, MO. 63830. PHONE 573-333-4203. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 164 AND STATE ROUTE E, NEAR THE SOUTHWEST EDGE OF COTTONWOOD POINT, GO SOUTHEAST, 0.49 KM (0.30 MI) ALONG HIGHWAY 164 TO THE TOP OF THE GRAVEL LEVEE CROSSROAD. TURN RIGHT, SOUTH, 0.21 KM (0.15 MI) ALONG THE TOP LEVEE ROAD, TO A GRAVEL CROSSROAD AND THE STATION ON THE LEFT, JUST SOUTHEAST OF THE JUNCTION. THE STATION IS 12.1 M (39.7 FT) NORTHEAST OF A METAL LEVEE SIGN (ST. FRANCIS LEVEE DIST.), 10.4 M (34.1 FT) EAST OF THE GRAVEL LEVEE ROAD CENTER, 6.5 M (21.3 FT) SOUTHEAST OF A GRAVEL ROAD CENTER, 2.2 M (7.2 FT) EAST-SOUTHEAST OF A METAL WITNESS POST, AND THE MONUMENT IS ABOUT LEVEL WITH THE LEVEE ROAD AND FLUSH WITH THE GROUND SURFACE.</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	2 RM 5 AZ MK (GD1721)
MK # 2			0.00	0.0	359 33 40.3
MK # 3			0.00	0.0	358 13 12.4

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station CRAWFORD	Date Monumented 2/11/1996	Monumented By NGS	County BAXTER	Route 201	Job Number: 009814
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	239,494.3062	
Easting (M)	371,176.1690	
Elevation (M)*	262.400	
Northing (SFT)	785,740.9029	
Easting (SFT)	1,217,767.1478	
Elevation (SFT)*	860.891	

Convergence Angle	0	11	13.8510205
Scale Factor	1.000061251		
Elevation Adjust. Factor	0.9999588226		
Combined Adjust. Factor	1.0000200711		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>THE STATION IS LOCATED IN SECTION 13, TWP 21 N, RNG 13 W, ABOUT 0.5 MI (0.8 KM) SOUTH OF THE ARKANSAS-MISSOURI STATE LINE, 1 MI (1.61 KM) EAST OF STATE HIGHWAY 201, ON THE RIGHT-OF-WAY OF COUNTY ROAD NUMBER 37. TO REACH THE STATION FROM THE COURTHOUSE IN MOUNTAIN HOME, GO NORTH ON ARKANSAS STATE HIGHWAY 201 FOR 12.6 MI (20.3 KM) TO THE JUNCTION OF COUNTY ROAD NUMBER 37 ON RIGHT. TURN RIGHT AND GO EAST FOR 0.90 MI (1.45 KM) ON COUNTY ROAD 37 TO THE STATION ON THE LEFT. THE STATION IS 22 FT (6.7 M) NORTHEAST OF THE CENTERLINE OF COUNTY ROAD 37, 3.5 FT (1.1 M) SOUTH OF AN 8-INCH WOODEN FENCE POST WITH SIGN AND 26.7 FEET (8.1 M) NORTHWEST OF A GRAVEL DRIVEWAY TO THE CRAWFORD RESIDENCE.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station D 210	Date Monumented 1/1/1962	Monumented By NGS	County CONWAY	Route 95	Job Number: 080BR7
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	108,856.9281		
Easting (M)	333,499.1210		
Elevation (M)*	186.343		
Northing (SFT)	357,141.4383		
Easting (SFT)	1,094,155.0328		
Elevation (SFT)*	611.360		

Convergence Angle	0	25	31.9685125
Scale Factor	0.999947134		
Elevation Adjust. Factor	0.9999707576		
Combined Adjust. Factor	0.9999178931		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 95 AND 213N, NORTH OF MORRILTON, GO NORTH ON 95 FOR 3.0 MILES TO THE MARK ON THE LEFT, 160 FEET NORTH OF A PAVED ROAD (MISSLE ROAD) TO THE EAST, 30 FEET WEST OF THE CENTERLINE OF THE HIGHWAY AND 1 FOOT EAST OF A FENCE LINE. THE STATION MARK IS A STANDARD CAP STAMPED "D 210 1962" SET IN A CONCRETE POST PROJECTING 3 INCHES ABOVE THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARBT Ref Mon # 3 ARFY	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station D 294	Date Monumented 1/1/1984	Monumented By NGS	County JOHNSON	Route 64	Job Number: R80072
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 112,476.2451		Latitude 35 20 23.8877268
Easting (M) 280,419.3720		Longitude 93 18 55.7995608
Elevation (M)* 124.944		Ellipsoid Height (M): 95.680
Northing (SFT) 369,015.8141		Geoid Height (M): -29.260
Easting (SFT) 920,009.2230		
Elevation (SFT)* 409.920		

Convergence Angle 0 45 55.7576350	Location Description
Scale Factor 0.999944973	<p>THE STATION IS LOCATED ABOUT 12 KM (7.45 MI) NORTHWEST OF RUSSELLVILLE, 5 KM (3.10 MI) WEST OF LONDON, IN THE EAST QUADRANT OF THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 359, AND IN THE HIGHWAY RIGHT-OF-WAY. OWNERSHIP--ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT. TO REACH THE STATION FROM THE OVERPASS AT THE JUNCTION OF INTERSTATE HIGHWAY 40 AND STATE HIGHWAY 315 (EXIT 67), ABOUT 24 KM (14.90 MI) NORTHWEST OF RUSSELLVILLE, GO SOUTHWEST ON HIGHWAY 315 FOR 0.56 KM (0.35 MI) TO THE JUNCTION OF U.S. HIGHWAY 64. TURN LEFT, SOUTHEAST ON HIGHWAY 64 FOR 6.35 KM (3.95 MI) TO THE JUNCTION OF STATE HIGHWAY 359 ON THE LEFT. CONTINUE AHEAD, SOUTHEAST ON HIGHWAY 64 FOR 0.11 KM (0.05 MI) TO THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE RECESSED 5 CM BELOW THE GROUND. IT IS 15.5 M (50.9 FT) NORTHEAST OF AND ABOUT 2 M (6.6 FT) HIGHER THAN THE CENTER OF HIGHWAY 64, 0.5 M (1.6 FT) SOUTHEAST OF A FIBERGLASS WITNESS POST IN A FENCE LINE AND 0.3 M (1.0 FT) SOUTHWEST OF THE FENCE.</p>
Elevation Adjust. Factor 0.9999803926	
Combined Adjust. Factor 0.9999253667	

SUPERCEDED CONTROL				
Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CENTER OF A GRAVEL DRIVE	NW	10.10	33.1	AZ Mark Station
MK # 2	TALL STEEL TELEPHONE CABLE WARNING POST	SE	4.90	16.1	Geodetic Azimuth
MK # 3	TALL STEEL TELEPHONE CABLE WARNING POST	NW	4.00	13.1	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px; vertical-align: top;"> Elevation based on Published NGS Value </td> </tr> </table>	Comments	Elevation based on Published NGS Value
Comments			
Elevation based on Published NGS Value			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station D 50	Date Monumented 1/1/1934	Monumented By USC&GS	County WASHINGTON	Route 62	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	183,220.5970	
Easting (M)	178,921.5970	
Elevation (M)*	426.014	
Northing (SFT)	601,116.2420	
Easting (SFT)	587,011.9395	
Elevation (SFT)*	1,397.681	

Convergence Angle	-1	25	34.6297746
Scale Factor	0.999957383		
Elevation Adjust. Factor	0.9999331490		
Combined Adjust. Factor	0.9998905348		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF HWY-62 & MAIN STREET IN LINCOLN GO WESTERLY ON HWY-62 FOR ABOUT 2.0 MILES TO A SIDE ROAD RIGHT AND STATION ON THE RIGHT, ABOUT 100 FEET NORTH OF THE CENTERLINE OF HWY-62, 24 FEET WEST OF THE CENTER OF A NORTH-SOUTH ROAD AND NEAR THE SOUTHEAST CORNER OF A FIELD.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					NONE
MK # 2	NONE					
MK # 3	NONE					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SPRINGDALE Ref Mon # 2 DENNIS Ref Mon # 3 NONE	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station D 52	Date Monumented 1/1/1934	Monumented By NGS	County CLEBURNE	Route NA	Job Number: 050228
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	124,889.2000	
Easting (M)	396,477.8100	
Elevation (M)*	274.041	
Northing (SFT)	409,740.6503	
Easting (SFT)	1,300,777.6150	
Elevation (SFT)*	899.083	

Convergence Angle	0	1	21.2870838
Scale Factor	0.999938310		
Elevation Adjust. Factor	0.9999569959		
Combined Adjust. Factor	0.9998953085		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARBT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARHR</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	ARBT	Ref Mon # 3	ARHR	<table border="1" style="width: 100%; height: 150px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARLR							
Ref Mon # 2	ARBT							
Ref Mon # 3	ARHR							
Comments								

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station D 52-1	Date Monumented 1/1/1934	Monumented By NGS	County CLEBURNE	Route NA	Job Number: 050175
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<table style="width: 100%;"> <tr> <td style="width: 50%;">Zone Arkansas South</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Horizontal Datum</td> <td></td> </tr> <tr> <td>Northing (M)</td> <td>#Error</td> </tr> <tr> <td>Easting (M)</td> <td>#Error</td> </tr> <tr> <td>Elevation (M)*</td> <td></td> </tr> <tr> <td>Northing (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Easting (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Elevation (SFT)*</td> <td></td> </tr> </table> <table style="width: 100%;"> <tr> <td style="width: 50%;">Convergence Angle</td> <td>###/###</td> <td>#Error</td> </tr> <tr> <td>Scale Factor</td> <td></td> <td>#Error</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td></td> <td></td> </tr> <tr> <td>Combined Adjust. Factor</td> <td></td> <td>#Type!</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;">SUPERCEDED CONTROL</div> <table style="width: 100%;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone Arkansas South	Zone Code	Horizontal Datum		Northing (M)	#Error	Easting (M)	#Error	Elevation (M)*		Northing (SFT)	#Type!	Easting (SFT)	#Type!	Elevation (SFT)*		Convergence Angle	###/###	#Error	Scale Factor		#Error	Elevation Adjust. Factor			Combined Adjust. Factor		#Type!	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table style="width: 100%;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td style="width: 40%;"></td> </tr> <tr> <td>Elevation Datum:</td> <td></td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center; margin: 0;">Location Description</p> <p style="margin: 5px 0 0 0;">TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 5, SOUTH OF HEBER SPRINGS, GO SOUTH ON HIGHWAY 5 0.15 MILES TO THE STATION MARK ON THE LEFT, 44.0 FEET WEST OF THE CENTER OF A PRIVATE DRIVE, 17.2 FEET EAST OF A FENCE CO</p> </div>	Vertical Determined By:		Elevation Datum:		Geoid Datum:		Latitude		Longitude		Ellipsoid Height (M):		Geoid Height (M):	
Zone Arkansas South	Zone Code																																																						
Horizontal Datum																																																							
Northing (M)	#Error																																																						
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Geoid Height (M):																																																							

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td style="width: 70%;">HEBEPOR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARLR</td> </tr> </table>	Ref Mon # 1	HEBEPOR	Ref Mon # 2	ARHR	Ref Mon # 3	ARLR	<div style="border: 1px solid black; height: 100px; margin: 5px 0;"></div> <p style="text-align: center; margin: 0;">Comments</p>
Ref Mon # 1	HEBEPOR						
Ref Mon # 2	ARHR						
Ref Mon # 3	ARLR						

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station D 85	Date Monumented 1/1/1935	Monumented By NGS	County WOODRUFF	Route *	Job Number: 110541
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	74,727.9500	
Easting (M)	468,016.5360	
Elevation (M)*	58.263	
Northing (SFT)	245,169.9493	
Easting (SFT)	1,535,484.2519	
Elevation (SFT)*	191.150	

Convergence Angle	0	26	0.9333777
Scale Factor	0.999986759		
Elevation Adjust. Factor	0.9999908568		
Combined Adjust. Factor	0.9999776159		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARBT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MSOX</td> </tr> </table>	Ref Mon # 1	ARLR	Ref Mon # 2	ARBT	Ref Mon # 3	MSOX	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARLR							
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Ref Mon # 3	MSOX							
Comments								

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station DAWSEY	Date Monumented 1/1/1986	Monumented By NGS	County CRITTENDEN	Route 70	Job Number: 110505
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	90,883.0901	
Easting (M)	560,982.4130	
Elevation (M)*	63.039	
Northing (SFT)	298,172.2714	
Easting (SFT)	1,840,489.8000	
Elevation (SFT)*	206.821	

Convergence Angle	1	1	40.7633458
Scale Factor	0.999965869		
Elevation Adjust. Factor	0.9999901072		
Combined Adjust. Factor	0.9999559765		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST EDGE OF THE PARALLEL TAXIWAY	W	21.20	69.6
MK # 2	N END OF A CONCRETE HEADWALL	NE	14.30	46.9
MK # 3	WEST END OF A DRAIN PIPE	NW	14.30	46.9

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire levels ran by crew S5111 from first order NGS mark T 173 to NGS mark C 5 in June 07.</td> </tr> </table>	Comments	3-wire levels ran by crew S5111 from first order NGS mark T 173 to NGS mark C 5 in June 07.
Comments			
3-wire levels ran by crew S5111 from first order NGS mark T 173 to NGS mark C 5 in June 07.			

Location Description
LOCATED ON THE WEST MEMPHIS MUNICIPAL AIRPORT WHICH IS JUST WEST OF THE CITY OF WEST MEMPHIS, ARKANSAS. AIRPORT IS SOUTH OF US HIGHWAYS 70 AND 79 ABOUT 3.2 MI (5.1 KM) E OF JUNCTION US HIGHWAYS AND STATE ROUTE 147. STATION IS LOCATED IN THE NORTH CENTRAL PORTION OF THE AIRPORT JUST WEST OF THE RAMP AREA BETWEEN A TAXIWAY RUNNING PARALLEL TO THE RUNWAY AND THE RUNWAY. TO REACH FROM THE RAMP AREA TAKE THE TAXIWAY AT THE MIDPOINT OF THE RAMP, JUST SOUTH OF THE SOUTH POLE OF A RADIO BEACON TO THE TAXIWAY RUNNING PARALLEL WITH THE RUNWAY. TURN RIGHT HEAD NORTH ON TAXIWAY ABOUT 341 FT (103.9 M) TO STATION ON LEFT BETWEEN THE TAXIWAY AND RUNWAY JUST NORTHEAST OF THE JUNCTURE OF DRAINAGE DITCHES. STATION IS ABOUT 0.5 FT (15.2 CM) BELOW GROUND SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
EN 1 CORS L1 PI		NGS	SEVIER	CR 248	NA

Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	562,518.3160	
Easting (M)	188,758.2870	
Elevation (M)*	199.000	
Northing (SFT)	1,845,528.8417	
Easting (SFT)	619,284.4799	
Elevation (SFT)*	652.886	

Convergence Angle	-1	16	53.8698899
Scale Factor	0.999919351		
Elevation Adjust. Factor	0.9999687714		
Combined Adjust. Factor	0.9998881249		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks			
	Description	Azimuth	Distance
			Meters Feet
MK # 1			0.00 0.0
MK # 2			0.00 0.0
MK # 3			0.00 0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station DIST2	Date Monumented 4/4/1995	Monumented By AHTD	County JEFFERSON	Route N/A	Job Number: 20197,001930,R20149,02071
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	569,141.5457 0.0030
Easting (M)	407,921.7384 0.0020
Elevation (M)*	

Northing (SFT)	1,867,258.5545	
Easting (SFT)	1,338,323.2367	
Elevation (SFT)*		

Convergence Angle	0	2	53.1742234
Scale Factor	0.999922220		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LITTLE ROCK	ELEVATION BY 3-WIRE USING NOAA BENCH MARK NUMBER J 289 (60.874 METERS) NAVD88
Ref Mon # 2 AHTD LITTLE ROCK	
Ref Mon # 3 AHTD MON 1	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station DIST2 AZ	Date Monumented 5/29/1996	Monumented By AHTD	County JEFFERSON	Route 65	Job Number: 197,R20149,001930,DDK,020
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	569,462.4877 0.0030
Easting (M)	407,946.1723 0.0030
Elevation (M)*	

Northing (SFT)	1,868,311.5117	
Easting (SFT)	1,338,403.4003	
Elevation (SFT)*		

Convergence Angle	0	2	53.7142714
Scale Factor	0.999922359		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	64	12.95	42.5
MK # 2	GUY POLE	120	10.25	33.6
MK # 3	POWER POLE	276	33.90	111.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD LITTLE ROCK	ELEVATION BY 3-WIRE USING NOAA BENCH MARK NUMBER J 289 (60.874 METERS) NAVD88
Ref Mon # 2 AHTD LITTLE ROCK	
Ref Mon # 3 AHTD MON 1	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-65 AND HWY-425 ABOUT 6.92 KM (4.30 MI) EAST OF PINE BLUFF, GO EAST ON HWY-65 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE RIGHT, JUST PAST THE EAST ENTRANCE TO THE DISTRICT TWO HEADQUARTERS OF THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT NEAR THE NORTH EDGE OF A PAVED CULDESAC. 23.65 METERS SOUTH OF THE CENTER OF HWY-65 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "DIST2 AZ 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO "HARN" ON 1/30/2002.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
DIST2 AZ(OLD)	5/29/1996	AHTD	JEFFERSON	65	020197,R20149,001930,DDK

Zone	Zone Code	Vertical Determined By:
Arkansas South	302	LEVEL - Unkown Quality
Horizontal Datum	NAD 83 (1997)	
Northing (M)	569,462.4919	
Easting (M)	407,946.1490	
Elevation (M)*	60.594	

Northing (SFT)	1,868,311.5255	
Easting (SFT)	1,338,403.3238	
Elevation (SFT)*	198.799	

Convergence Angle	0	2	53.7137616
Scale Factor	0.999922359		
Elevation Adjust. Factor	0.9999904909		
Combined Adjust. Factor	0.9999128507		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	11	40.3176660
Longitude	91	54	49.6163808
Ellipsoid Height:	33.939		
Grid Northing (Meters)	569,462.7724		
Grid Easting (Meters)	407,946.3802		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	64	12.95	42.5
MK # 2	GUY POLE	120	10.25	33.6
MK # 3	POWER POLE	276	33.90	111.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEVATION BY 3-WIRE USING NOAA BENCH MARK NUMBER J 289 (60.874 METERS) NAVD88
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station DIST2(OLD)	Date Monumented 4/4/1995	Monumented By AHTD	County JEFFERSON	Route N/A	Job Number: 020197,001930,R20149
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	569,141.5509	
Easting (M)	407,921.7130	
Elevation (M)*	61.170	

Northing (SFT)	1,867,258.5716	
Easting (SFT)	1,338,323.1534	
Elevation (SFT)*	200.689	

Convergence Angle	0	2	53.1736673
Scale Factor	0.999922220		
Elevation Adjust. Factor	0.9999904005		
Combined Adjust. Factor	0.9999126213		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	11	29.9015808
Longitude	91	54	50.5813464
Ellipsoid Height:	34.517		
Grid Northing (Meters)	569,141.8285		
Grid Easting (Meters)	407,921.9447		

Location Description			
<p>THE STATION IS LOCATED AT THE ARKANSAS STATE HIGHWAY ANDTRANSPORATION DEPARTMENT DISTRICT 2 HEADQUARTERS IN PINE BLUFF. TO REACH THE STATION FROM THE EASTERN MOST ENTRANCE ON HWY-65 GO THROUGH THE GATE STRAIGHT AHEAD (SOUTH) FOR 0.29 KM (0.18 MI) PASSING THE GAS STATION ON THE RIGHT TO THE END OF THE ASPHALT AND A PAVED ROAD LEFT, GO LEFT (EAST) FOR 0.06 KM (0.04 MI) TO THE STATION ON THE RIGHT. 3.90 METERS SOUTHEAST OF THE CENTER OF THE PAVED ROAD AND 1.50 METERS SOUTHEAST OF THE EDGE OF THE PAVEMENT AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD CAP STAMPED "DIST2 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG THAT IS ENCASED IN CONCRETE AND IS FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO "HARN" ON 1/30/2002.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 AHTD LITTLE ROCK</p> <p>Ref Mon # 2 AHTD LITTLE ROCK</p> <p>Ref Mon # 3 AHTD MON 1</p>	<p style="text-align: center;">Comments</p> <p>ELEVATION BY 3-WIRE USING NOAA BENCH MARK NUMBER J 289 (60.874 METERS) NAVD88</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station E 209	Date Monumented 1/1/1986	Monumented By NGS	County CHOCTAW / OK	Route N/A	Job Number: NA
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Zone Arkansas South	Zone Code	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum		Elevation Datum: NAVD 88
Northing (M)	#Error	Geoid Datum:
Easting (M)	#Error	Latitude
Elevation (M)*	174.958	Longitude
Northing (SFT)	#Type!	Ellipsoid Height (M):
Easting (SFT)	#Type!	Geoid Height (M):
Elevation (SFT)*	574.008	

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			0.9999725441
Combined Adjust. Factor			#Type!

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST GATE POST AT A FIELD ENTRANCE	SE	4.80	15.7
MK # 2	A OKDOT WOODEN WITNESS POST	S-SW	0.80	2.6
MK # 3	A OKDOT WOODEN WITNESS POST	S-SE	0.90	3.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>COORDINATES BASED ON OKLAHOMA SOUTH ZONE</td> </tr> </table>	Comments	COORDINATES BASED ON OKLAHOMA SOUTH ZONE
Comments			
COORDINATES BASED ON OKLAHOMA SOUTH ZONE			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station E 292	Date Monumented 1/1/1984	Monumented By NOAA	County LINCOLN	Route 65	Job Number: 20137
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	547,848.7440	
Easting (M)	439,385.9070	
Elevation (M)*	50.187	
Northing (SFT)	1,797,400.4209	
Easting (SFT)	1,441,551.9299	
Elevation (SFT)*	164.655	

Convergence Angle	0	14	19.0574963
Scale Factor	0.999918660		
Elevation Adjust. Factor	0.9999921241		
Combined Adjust. Factor	0.9999107847		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 114, LOCATED IN GOULD, GO NORTHWEST ON U.S. HIGHWAY 65 FOR 1.6 KM (1.00 MI) TO THE STATION ON THE LEFT SET NEXT TO THE GOULD CITY LIMITS SIGN. THE STATION IS 51.51 METERS NORTHWEST OF RAILROAD MILEPOST 419, 14.32 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 65, 13.28 METERS NORTHEAST OF THE NORTHEAST RAIL, 4.02 METERS SOUTHWEST OF THE SOUTHWEST POST OF THE GOULD CITY LIMITS SIGN, 0.3 METERS SOUTHEAST OF A FIBERGLASS WITNESS POST AND 0.50 METERS NORTHEAST OF AN AHTD WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN IN THE GROUND AND CAN BE REACHED THROUGH A 0.13 METER LOGO CAP STAMPED "E 292 1984" SET FLUSH WITH THE GROUND.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 AHTD MON 1</p> <p>Ref Mon # 2 J 112</p> <p>Ref Mon # 3 K 124</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station E 292A	Date Monumented 12/8/1988	Monumented By AHTD	County LINCOLN	Route 65	Job Number: 20137
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	547,352.1161	
Easting (M)	439,765.7660	
Elevation (M)*	50.276	
Northing (SFT)	1,795,771.0676	
Easting (SFT)	1,442,798.1840	
Elevation (SFT)*	164.947	

Convergence Angle	0	14	27.2970682
Scale Factor	0.999918711		
Elevation Adjust. Factor	0.9999921101		
Combined Adjust. Factor	0.9999108218		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	130	14.52	47.6
MK # 2	NORTHWEST END OF PLASTIC CULVERT	158	32.64	107.1
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>AHTD MON 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>J 112</td> </tr> <tr> <td>Ref Mon # 3</td> <td>K 124</td> </tr> </table>	Ref Mon # 1	AHTD MON 1	Ref Mon # 2	J 112	Ref Mon # 3	K 124	<table border="1" style="width: 100%; height: 150px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	AHTD MON 1							
Ref Mon # 2	J 112							
Ref Mon # 3	K 124							
Comments								

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 59 40.0619076

Longitude 91 34 10.3993212

Ellipsoid Height (M): 24.365

Geoid Height (M): -25.912

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 114 EAST, LOCATED IN GOULD, GO NORTHWEST ON U.S. HIGHWAY 65 FOR 0.975 KM (0.61 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.30 METERS NORTHWEST OF THE CENTER OF A GRAVEL ENTRANCE TO A METAL BUILDING, 16.92 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "E 292A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	E 292
Geodetic Azimuth	322 49 45.71204
Grid Azimuth	322 35 18.41906

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station E 38	Date Monumented 1/1/1934	Monumented By USC&GS	County BAXTER	Route 62	Job Number: R90094
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	226,580.3039	
Easting (M)	371,538.4450	
Elevation (M)*	250.412	
Northing (SFT)	743,372.2137	
Easting (SFT)	1,218,955.7150	
Elevation (SFT)*	821.560	

Convergence Angle	0	11	4.4092137
Scale Factor	1.000031120		
Elevation Adjust. Factor	0.9999607037		
Combined Adjust. Factor	0.9999918225		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	253	14.00	45.9
MK # 2	GUY POLE	70	27.50	90.2
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>FAA 7M9 A</td> </tr> <tr> <td>Ref Mon # 2</td> <td>CRAWFORD</td> </tr> <tr> <td>Ref Mon # 3</td> <td>HOMEPORT</td> </tr> </table>	Ref Mon # 1	FAA 7M9 A	Ref Mon # 2	CRAWFORD	Ref Mon # 3	HOMEPORT	<table style="width: 100%;"> <tr> <td style="text-align: center;">Comments</td> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Ref Mon # 1	FAA 7M9 A								
Ref Mon # 2	CRAWFORD								
Ref Mon # 3	HOMEPORT								
Comments									

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 36 22 30.5916816

Longitude 92 19 1.7944824

Ellipsoid Height (M): 222.103

Geoid Height (M): -28.309

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62, HIGHWAY 62B, HIGHWAY 412 EAST, LOCATED ON THE EAST SIDE OF MOUNTAIN HOME, GO EAST ON U.S. HIGHWAY 62 FOR 2.478 KM (1.54 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.00 METERS NORTHWEST OF CENTER LINE OF U.S. HIGHWAY 62 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD BENCH MARK DISK STAMPED E 38 1934 SET IN TOP OF A ROUND CONCETE MONUMENT.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station ARNHART-HAL	Date Monumented 4/19/1997	Monumented By ARGLS	County FAULKNER	Route 65	Job Number: 080505
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Zone Arkansas North	Zone Code 301	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:40%;">Vertical Determined By:</td> <td colspan="2">GPS - Unknown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>13 22.8749700</td> </tr> <tr> <td>Longitude</td> <td>92</td> <td>23 10.8466008</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>79.220</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-27.930</td> <td></td> </tr> </table>	Vertical Determined By:	GPS - Unknown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	35	13 22.8749700	Longitude	92	23 10.8466008	Ellipsoid Height (M):	79.220		Geoid Height (M):	-27.930	
Vertical Determined By:	GPS - Unknown Quality																						
Elevation Datum:	NAVD 88																						
Geoid Datum:																							
Latitude	35		13 22.8749700																				
Longitude	92		23 10.8466008																				
Ellipsoid Height (M):	79.220																						
Geoid Height (M):	-27.930																						
Horizontal Datum	NAD 83 (1997)																						
Northing (M)	98,772.1871																						
Easting (M)	364,828.7650																						
Elevation (M)*	107.210																						
Northing (SFT)	324,055.0838																						
Easting (SFT)	1,196,942.3732																						
Elevation (SFT)*	351.737																						

Convergence Angle	0	13	29.3324242
Scale Factor	0.999955689		
Elevation Adjust. Factor	0.9999831756		
Combined Adjust. Factor	0.9999388653		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

STATION IS AN ARKANSAS HARN DISK SET INTO THE TOP OF A ROUND CONCRETE POST. NO DESCRIPTIVE DATA WERE SUBMITTED TO NGS. FOR ADDITIONAL INFORMATION, CONTACT PAUL WALLA, ASPS, PHONE 501-756-2772.

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	
MK # 2			0.00	0.0	
MK # 3			0.00	0.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Previous three wire elevation was 107.2m. There were no notes available. Job 080505 three wire based on NGS benchmarks 14 B and T 208.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
DMONDSON RM	1/1/2020	CGS	CRITTENDEN	131	11800,110524

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	87,124.9311
Easting (M)	553,953.9400
Elevation (M)*	62.618
Northing (SFT)	285,842.3781
Easting (SFT)	1,817,430.5515
Elevation (SFT)*	205.440

Convergence Angle	0	58	57.7392282
Scale Factor	0.999970436		
Elevation Adjust. Factor	0.9999901733		
Combined Adjust. Factor	0.9999606095		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	NGS 1ST ORDER MARK FOUND AND OCCUPIED BY CREW S5102. 3-WIRE LEVELS RAN BY S5104 2-2-07 AND FOUND EDMONDSON RM 1 WAS OFF 0.06' IN COMPARISON TO EDMONDSON 2 RM 3 AND EDMONDSON.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
EVANS AZ 1954		USC&GS	VAN BUREN	16	NA

Zone	Zone Code	Vertical Determined By:
Arkansas North	301	GPS - Unknown Quality
Horizontal Datum	NAD 83 (1986)	
Northing (M)	142,318.9810	
Easting (M)	353,154.4880	
Elevation (M)*	463.752	
Northing (SFT)	466,924.8568	
Easting (SFT)	1,158,641.0160	
Elevation (SFT)*	1,521.493	

Convergence Angle	0	18	3.2297148
Scale Factor	0.999936079		
Elevation Adjust. Factor	0.9999272275		
Combined Adjust. Factor	0.9998633111		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>FROM THE JCT. OF HWY. 65 AND HWY. 16 ON THE NORTH EDGE OF THE TOWN OF CLINTON, GO WEST ON HWY. 16 FOR 4.10 MILES (6.598 KM) TO THE STATION ON THE RIGHT. THE STATION IS 28 FEET (8.53 METERS) NORTH OF THE CENTER OF HWY. 16 AND ABOUT 3.5 METERS SOUTH OF AN EAST-WEST FENCE LINE. THE STATION MARK IS A STANDARD CAP STAMPED "EVANS 1954" SET IN A ROUND CONCRETE POST THAT PROJECTS 0.30 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 NONE</p> <p>Ref Mon # 2 NONE</p> <p>Ref Mon # 3 NONE</p>	<p style="text-align: center;">Comments</p> <p>COORDS ARRIVED BY USING EDM DISTANCE OBSERVED S5102 8/1995 AND OBSERVED AZIMUTH FROM STATION'S ORIGINAL OCCUPATION 1954. STATION "EVANS 1954" NOT SUITABLE FOR GPS OCCUPATION BECAUSE UNDER TREES.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station F 93	Date Monumented 1/2/1935	Monumented By USC&GS	County MADISON	Route 23	Job Number: 090009, 090557
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	161,645.4077 0.0030
Easting (M)	237,598.3845 0.0030
Elevation (M)*	502.034

Northing (SFT)	530,331.6418		
Easting (SFT)	779,520.6998		
Elevation (SFT)*	1,647.090		

Convergence Angle	-1	2	43.0561521
Scale Factor	0.999941575		
Elevation Adjust. Factor	0.9999212207		
Combined Adjust. Factor	0.9998628003		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	46	37.2180684
Longitude	93	47	46.8531636
Ellipsoid Height:	473.998		
Grid Northing (Meters)	161,645.4197		
Grid Easting (Meters)	237,598.3819		

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO SOUTH ON STATE HIGHWAY 23 FOR 4.36 KM (2.71 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.28 METERS EAST OF THE CENTER OF STATE HIGHWAY 23, 0.50 METERS EAST OF A NGS FIBERGLASS WITNESS POST, 0.50 METERS EAST OF A NGS METAL WITNESS POST AND 1.00 METERS EAST OF AN AHTD WITNESS POST. THE STATION MARK IS A USC&GS BENCH MARK DISK STAMPED "F 93 1935" AND SET IN THE TOP OF CONCRETE POST. THE SHOT DISTANCE IS 405.305 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY, CTA1 (OLD MAIN)</p> <p>Ref Mon # 2 ARHR, ARRV (GAYLOR)</p> <p>Ref Mon # 3 ARFS (OZARPORT)</p>	<p style="text-align: center;">Comments</p> <p>HELD NGS PUBLISHED ELEVATION ON THIS MONUMENT ALONG WITH ELEVATIONS ON ARDOT CORS ARFY, ARFS, ARHR & ARRV FIXED IN STATIC NETWORK ADJUSTMENT</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station F 93A	Date Monumented 1/11/2000	Monumented By AHTD	County MADISON	Route 23	Job Number: 090009, 090557
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	161,300.4122	0.0020			
Easting (M)	237,385.7739	0.0020			
Elevation (M)*	505.261				

Northing (SFT)	529,199.7690				
Easting (SFT)	778,823.1599				
Elevation (SFT)*	1,657.676				

Convergence Angle	-1	2	47.8355098
Scale Factor	0.999941393		
Elevation Adjust. Factor	0.9999207144		
Combined Adjust. Factor	0.9998621121		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	46	25.8995784
Longitude	93	47	55.0670784
Ellipsoid Height:	477.230		
Grid Northing (Meters)	161,300.4191		
Grid Easting (Meters)	237,385.7577		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO SOUTH ON STATE HIGHWAY 23 FOR 4.76 KM (2.96 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.45 METERS WEST OF THE CENTER OF STATE HIGHWAY 23, 0.80 METERS EAST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED " F 93A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 379.338 METERS.

Location Reference Marks

Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	GUY POLE	299	3.10	10.2		F 93
MK # 2	WEST END OF RCP	60	7.00	23.0		30 35 56.20884
MK # 3	NONE					31 38 44.05582

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY, CTA1 (OLD MAIN)</p> <p>Ref Mon # 2 ARHR, ARRV (GAYLOR)</p> <p>Ref Mon # 3 ARFS (OZARPORT)</p>	<p style="text-align: center;">Comments</p> <p>HELD NGS PUBLISHED ELEVATION ON BM F 93 ALONG WITH ELEVATIONS ON ARDOT CORS ARFY, ARFS, ARHR & ARRV FIXED IN STATIC NETWORK ADJUSTMENT</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station F 98	Date Monumented 1/1/1935	Monumented By NGS	County PULASKI	Route 630	Job Number: 061148,061381
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	630,232.5565	
Easting (M)	367,688.9884	
Elevation (M)*	96.072	
Northing (SFT)	2,067,687.9791	
Easting (SFT)	1,206,326.2894	
Elevation (SFT)*	315.196	

Convergence Angle	0	11	50.9396354
Scale Factor	0.999994576		
Elevation Adjust. Factor	0.9999849234		
Combined Adjust. Factor	0.9999794995		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	34	44	30.8561712
Longitude	92	21	10.2371580
Ellipsoid Height:	69.519		
Grid Northing (Meters)	630,232.5590		
Grid Easting (Meters)	367,688.9760		

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF UNIVERSITY AVE. AND 12th STREET, IN LITTLE ROCK, GO WEST ON 12th STREET FOR 0.50 MILES TO THE STATION MARK ON THE RIGHT, 13.70 FEET NORTH OF THE NORTH EDGE OF A CONCRETE SIDEWALK AND 29.50 FEET WEST OF THE C			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	ROCK FENCE CORNER	89	1.92	6.3		600061
MK # 2						355 37 23
MK # 3						355 49 42

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARLR Ref Mon # 2: 600041, 600054 Ref Mon # 3: 600055	3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station FAA 7M9 A	Date Monumented 3/25/1997	Monumented By NGS	County FULTON	Route 9	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	224,040.2481	
Easting (M)	415,001.6520	
Elevation (M)*	232.000	
Northing (SFT)	735,038.7140	
Easting (SFT)	1,361,551.2533	
Elevation (SFT)*	761.153	

Convergence Angle	0	5	50.1002032
Scale Factor	1.000025751		
Elevation Adjust. Factor	0.9999635930		
Combined Adjust. Factor	0.9999893430		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>THE STATION IS LOCATED ABOUT 2.41 KM (1.50 MI) SOUTH OF SALEM, AT THE SALEM MUNICIPAL AIRPORT AND IN ROCK OUTCROP. OWNERSHIP--CITY OF SALEM, SALEM CITY HALL, SALEM, AR 72576, AIRPORT MANAGER IS DON D. YOUNG, PHONE 501-895-2796. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 9 AND U.S. HIGHWAY 62 IN SALEM, GO SOUTH ON STATE HIGHWAY 9 FOR 1.13 KM (0.70 MI) TO THE JUNCTION OF COUNTY ROAD 980 ON THE LEFT (WITH AIRPORT SIGN), TURN LEFT, SOUTHERLY, ON COUNTY ROAD 980 FOR 0.56 KM (0.35 MI) TO THE AIRPORT ENTRANCE ROAD ON THE LEFT, TURN LEFT, EAST, ON THE ENTRANCE ROAD FOR 0.08 KM (0.05 MI) TO THE APRON, CONTINUE AHEAD ACROSS THE APRON TO THE JUNCTION OF THE RUNWAY, TURN RIGHT, SOUTH, ONTO THE RUNWAY FOR 0.48 KM (0.30 MI) TO THE STATION ON THE RIGHT.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	CENTER OF THE RUNWAY	W	13.70	44.9	
MK # 2	SECOND RUNWAY LIGHT NORTH OF THE E ND OF RUNWAY 2	SW	11.60	38.1	
MK # 3	A FIBERGLASS WITNESS POST	S	0.30	1.0	

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station FARINDALE	Date Monumented 1/1/1964	Monumented By NGS	County CLEVELAND	Route 167	Job Number: 001914
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	553,414.2600	
Easting (M)	362,165.2270	
Elevation (M)*	84.470	
Northing (SFT)	1,815,659.9514	
Easting (SFT)	1,188,203.7489	
Elevation (SFT)*	277.132	

Convergence Angle	0	13	45.7115745
Scale Factor	0.999918503		
Elevation Adjust. Factor	0.9999867441		
Combined Adjust. Factor	0.9999052482		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Power pole with guy	208		4.50	14.8
MK # 2	Guy wire base	148		4.10	13.5
MK # 3	Metal gate post	068		4.70	15.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124 Ref Mon # 2 700014,270005 070003,0700 Ref Mon # 3 T 83 N 81 070005 LROC UAM	This station is a 2nd order triangulation station determined by classical geodetic methods. 3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station FARM	Date Monumented 1/1/1965	Monumented By CGS	County LAIBORNE / L	Route N/A	Job Number: NA
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Zone Arkansas South	Zone Code	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum		Elevation Datum: NAVD 88
Northing (M)	#Error	Geoid Datum:
Easting (M)	#Error	Latitude
Elevation (M)*	108.563	Longitude
Northing (SFT)	#Type!	Ellipsoid Height (M):
Easting (SFT)	#Type!	Geoid Height (M):
Elevation (SFT)*	356.177	

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			0.9999829632
Combined Adjust. Factor			#Type!

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2			0.00	0.0
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	COORDINATES BASED ON LOUISIANA NORTH ZONE

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station FLINT	Date Monumented 1/1/1993	Monumented By NGS	County DELAWARE / OK	Route N/A	Job Number: NA
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Zone Arkansas South	Zone Code	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum		Elevation Datum: NAVD 88
Northing (M)	#Error	Geoid Datum:
Easting (M)	#Error	Latitude
Elevation (M)*	346.100	Longitude
Northing (SFT)	#Type!	Ellipsoid Height (M):
Easting (SFT)	#Type!	Geoid Height (M):
Elevation (SFT)*	1,135.496	

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			0.9999456886
Combined Adjust. Factor			#Type!

SUPERCEDED CONTROL			
Horizontal Datum		Latitude	
Longitude		Ellipsoid Height:	
Grid Northing (Meters)		Grid Easting (Meters)	

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	FENCE	N	1.30	4.3	AZ Mark Station
MK # 2	WEST ONE OF THREE BRACED FENCE POST	E-NE	2.40	7.9	Geodetic Azimuth
MK # 3	YELLOW WOODEN POST	E	0.46	1.5	Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	Comments COORDINTES BASED ON OKLAHOMA NORTH ZONE
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
FOUNTAIN AZ	1/2/1939	USC&GS	ASHLEY	425	R20111

Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	476,797.6827	
Easting (M)	413,839.6369	
Elevation (M)*	59.681	
Northing (SFT)	1,564,293.7307	
Easting (SFT)	1,357,738.8754	
Elevation (SFT)*	195.803	

Convergence Angle	0	4	59.6108279
Scale Factor	0.999987450		
Elevation Adjust. Factor	0.9999906342		
Combined Adjust. Factor	0.9999780843		

SUPERCEDDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82, LOCATED IN HAMBURG, GO NORTH ON U.S. HIGHWAY 425 FOR 15.37 KM (9.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.94 METERS WEST OF THE CENTER OF U.S. HIGHWAY 49, 0.52 METERS EAST OF AN A.H.T.D. WITNESS POST AND 0.30 METERS NORTH OF AN N.G.S. WITNESS POST. THE STATION MARK IS A U.S.C.&G.S. AZIMUTH MARK DISK STAMPED "FOUNTAIN RESET 1939" SET IN TOP OF A ROUND CONCRETE MONUMENT SET FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ESTABLISHED BY N.G.S.. THE SHOT DISTANCE IS 591.995 METERS.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					020010
MK # 2	NONE					359 18 11.96728
MK # 3	NONE					359 13 12.35781

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station FREEMAN	Date Monumented 1/1/1964	Monumented By NGS	County Grant	Route 167	Job Number: 001914,RX0028
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	568,179.1490	
Easting (M)	363,257.1040	
Elevation (M)*	80.355	
Northing (SFT)	1,864,101.0913	
Easting (SFT)	1,191,786.0154	
Elevation (SFT)*	263.631	

Convergence Angle	0	13	23.1372075
Scale Factor	0.999921789		
Elevation Adjust. Factor	0.9999873899		
Combined Adjust. Factor	0.9999091799		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	10	56.4525804
Longitude	92	23	54.9559536
Ellipsoid Height:	53.643		
Grid Northing (Meters)	568,179.4612		
Grid Easting (Meters)	363,257.3671		

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167, 270 AND STATE HIGHWAY 46, LOCATED IN SHERIDAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 14.56 KM (9.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 42.659 METERS EAST-NORTHEAST OF THE CENTER OF U.S. HIGHWAY 167, 31.034 METERS SOUTHWEST OF FREEMAN RM 1, 29.617 METERS SOUTHEAST OF FREEMAN RM 2, 6.207 METERS SOUTH-SOUTHEAST OF THE CENTER OF A GRAVEL DRIVE WAY, 4.697 METERS NORTH-NORTHWEST OF A N.G.S. WITNESS POST, 4.421 METERS NORTHWEST OF A WEB WIRE FENCE AND 0.50 METERS WEST-SOUTHWEST OF AN A.H.T.D. WITNESS POST. THE STATION MARK IS A N.G.S. TRIANGULATION STATION DISK STAMPED "FREEMAN 1964" SET IN TOP A ROUND CONCRETE MONUMENT AND FLUSH WITH THE GROUND.</p>				

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Wooden corner post		164	5.26	17.3
MK # 2	3 foot post oak tree		359	16.08	52.7
MK # 3	Telephone junction box		229	26.00	85.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124 Ref Mon # 2 700014,270005 070003,0700 Ref Mon # 3 T 83 N 81 070005 LROC UAM	This station is an NGS second order triangulation station established by classical methods. 3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station G 185	Date Monumented 1/1/1956	Monumented By CGS	County MISSISSIPPI	Route 18	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	170,288.4509	
Easting (M)	576,678.6790	
Elevation (M)*	73.338	
Northing (SFT)	558,688.0260	
Easting (SFT)	1,891,986.6327	
Elevation (SFT)*	240.610	

Convergence Angle	1	8	17.7689553
Scale Factor	0.999946856		
Elevation Adjust. Factor	0.9999884910		
Combined Adjust. Factor	0.9999353476		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 51 8.7829056
Longitude	90 2 37.9393440
Ellipsoid Height (M):	45.450
Geoid Height (M):	-27.880

Location Description
<p>THE STATION IS LOCATED ABOUT 0.4 KM (0.2 MI) SOUTHWEST OF DELL, IN TOP OF THE SOUTHWEST END OF THE NORTHWEST HEADWALL OF A CULVERT AND ON THE NORTHWEST SIDE OF STATE HIGHWAY 18. OWNERSHIP-- ARKANSAS DEPARTMENT OF TRANSPORTATION, P.O. BOX 2261, LITTLE ROCK, AR 72203, PHONE 501-569-2211. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 18 AND 181 (NORTH) IN DELL, GO SOUTHWEST ON STATE HIGHWAY 18 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE RIGHT IN TOP OF THE SOUTHWEST END OF THE NORTHWEST HEADWALL OF A CULVERT UNDER HIGHWAY 18. THE STATION IS ABOUT 0.3 M (1.0 FT) BELOW THE LEVEL OF THE HIGHWAY AND LOCATED 6.8 M (22.3 FT) NORTHWEST OF THE CENTER OF HIGHWAY 18, 1.3 M (4.3 FT) SOUTHWEST OF A FIBERGLASS WITNESS POST AND 0.25 M (0.82 FT) NORTHEAST OF THE SOUTHWEST END OF THE HEADWALL.</p>

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station G 23	Date Monumented 1/1/1932	Monumented By NGS	County CLARK	Route 67	Job Number: 070265, 070344
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	542,301.7650	
Easting (M)	293,824.2320	
Elevation (M)*	66.489	
Northing (SFT)	1,779,201.7073	
Easting (SFT)	963,988.3345	
Elevation (SFT)*	218.140	

Convergence Angle	0	38	34.3892824
Scale Factor	0.999919700		
Elevation Adjust. Factor	0.9999895658		
Combined Adjust. Factor	0.9999092666		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE W/TEL RISER	046	19.40	63.6	AZ Mark Station G 23 A
MK # 2	RAILROAD SIGNAL	231	12.25	40.2	Geodetic Azimuth 038 00 49
MK # 3	POWER POLE	210	19.80	65.0	Grid Azimuth 038 39 23

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>C.O.R.S. HOPE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>LROC</td> </tr> <tr> <td>Ref Mon # 3</td> <td>G 23, 100007</td> </tr> </table>	Ref Mon # 1	C.O.R.S. HOPE	Ref Mon # 2	LROC	Ref Mon # 3	G 23, 100007	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	C.O.R.S. HOPE						
Ref Mon # 2	LROC						
Ref Mon # 3	G 23, 100007						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station G 23 A	Date Monumented 2/1/2005	Monumented By AHTD	County CLARK	Route 67	Job Number: 070265, 070344
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	542,852.9730	
Easting (M)	294,265.1440	
Elevation (M)*	70.767	
Northing (SFT)	1,781,010.1289	
Easting (SFT)	965,434.8933	
Elevation (SFT)*	232.175	

Convergence Angle	0	38	24.9134668
Scale Factor	0.999919567		
Elevation Adjust. Factor	0.9999888945		
Combined Adjust. Factor	0.9999084624		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER OF A PLANTER	234	17.70	58.1
MK # 2	LIGHT	248	15.45	50.7
MK # 3	WATER METER	040	20.10	65.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 C.O.R.S. HOPE	ELEVATIONS BY CREW S5112 ON 4/6/2011 USING DIGITAL 3 WIRE LEVELS FROM G 23 TO J 192 X.
Ref Mon # 2 LROC	
Ref Mon # 3 G 23, 100007	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 56 57.5674332
Longitude	93 8 38.1915672
Ellipsoid Height (M):	44.105
Geoid Height (M):	-26.606

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 67 AND 53 NORTH OF GURDON GO NORTH ON HWY-67 FOR 1.20 MILES TO THE STATION ON THE LEFT IN FRONT OF THE GURDON WOOD PRODUCTS PLANT. 15.80 METERS NORTHWEST OF THE CENTER OF HIGHWAY 67 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "G 23 A 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station G 292	Date Monumented 1/1/1984	Monumented By NOAA	County DESHA	Route 65	Job Number: R20092
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	543,325.1780	
Easting (M)	442,572.0280	
Elevation (M)*	48.631	
Northing (SFT)	1,782,559.3548	
Easting (SFT)	1,452,005.0619	
Elevation (SFT)*	159.550	

Convergence Angle	0	15	28.1060579
Scale Factor	0.999919353		
Elevation Adjust. Factor	0.9999923683		
Combined Adjust. Factor	0.9999117219		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	5	0.70	2.3
MK # 2	NORTHWEST CORNER OF WOODEN BARN	145	16.10	52.8
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>AHTD MON 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>J 112</td> </tr> <tr> <td>Ref Mon # 3</td> <td>K 124</td> </tr> </table>	Ref Mon # 1	AHTD MON 1	Ref Mon # 2	J 112	Ref Mon # 3	K 124	<table border="1" style="width: 100%; height: 150px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	AHTD MON 1							
Ref Mon # 2	J 112							
Ref Mon # 3	K 124							
Comments								

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 57 28.9608516

Longitude 91 32 21.7518288

Ellipsoid Height (M): 22.702

Geoid Height (M): -25.929

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 114 EAST AND U.S. HIGHWAY 65, IN GOULD, GO SOUTHEAST ON U.S. HIGHWAY 65 FOR 3.90 KM (2.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 40.23 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65, 28.34 METERS SOUTH-SOUTHWEST OF THE SOUTH CORNER OF A BLOCK HOUSE, 7.01 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVEWAY, 6.09 METERS NORTHEAST OF A WITNESS POST AND 6.30 METERS NORTHEAST OF AN AHTD WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN IN THE GROUND AND CAN BE REACHED THROUGH A 0.13 METER LOGO CAP STAMPED "G 292 1984" SET FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station G 292A	Date Monumented 12/8/1998	Monumented By AHTD	County DESHA	Route 65	Job Number: R20092
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	542,856.2280	
Easting (M)	442,882.3080	
Elevation (M)*	49.223	
Northing (SFT)	1,781,020.8080	
Easting (SFT)	1,453,023.0388	
Elevation (SFT)*	161.492	

Convergence Angle	0	15	34.8239977
Scale Factor	0.999919454		
Elevation Adjust. Factor	0.9999922754		
Combined Adjust. Factor	0.9999117300		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE = TBM 947	56	18.94	62.1
MK # 2	SOUTHEAST END CMP	80	10.11	33.2
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>AHTD MON 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>J 112</td> </tr> <tr> <td>Ref Mon # 3</td> <td>K 124</td> </tr> </table>	Ref Mon # 1	AHTD MON 1	Ref Mon # 2	J 112	Ref Mon # 3	K 124	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	AHTD MON 1							
Ref Mon # 2	J 112							
Ref Mon # 3	K 124							
Comments								

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 57 13.6943604

Longitude 91 32 9.7488780

Ellipsoid Height (M): 23.325

Geoid Height (M): -25.931

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 114 EAST AND U.S. HIGHWAY 65, IN GOULD, GO SOUTHEAST ON U.S. HIGHWAY 65 FOR 4.46 KM (2.77 MI) TO THE STATION ON THE LEFT SET IN THE CENTER OF AN ELEAVATED DRIVE TO A DRY POND. THE STATION IS 20.85 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65, 2.12 METERS SOUTHEAST OF A WITNESS POST AND 2.00 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "G 292A 1996" SET ON TOP OF AN IRON 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	G 292
Geodetic Azimuth	326 46 08.77054
Grid Azimuth	326 30 33.95341

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station G 294	Date Monumented 1/1/1984	Monumented By NGS	County JOHNSON	Route 64	Job Number: 080497
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	115,588.3589	0.0030			
Easting (M)	277,320.1205	0.0030			
Elevation (M)*	116.918				
Northing (SFT)	379,226.1408				
Easting (SFT)	909,841.0953				
Elevation (SFT)*	383.589				

Convergence Angle	0	47	8.1549225
Scale Factor	0.999943042		
Elevation Adjust. Factor	0.9999816521		
Combined Adjust. Factor	0.9999246951		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 315 AND STATE HIGHWAY 64, EAST OF KNOXVILLE, GO EAST ON HIGHWAY 64 FOR 1.25 MILES TO THE MARK ON THE LEFT, 48.5 FEET NORTHEAST OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A METAL ROD DRIVEN TO REFUSAL AND SET IN A LOGO CAP STAMPED "1984 G 294" .			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH OF SOUTH CORNER OF 1-S-F HOUSE	351	84.00	275.6
MK # 2	LIGHT POLE	318	92.00	301.8
MK # 3	OLD GUY POLE	93	64.50	211.6

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARHR Ref Mon # 3 P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;"> ELEVATION BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM G 294 IN MARCH OF 2015 FOR JOB #080497. </td> </tr> </table>	Comments	ELEVATION BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM G 294 IN MARCH OF 2015 FOR JOB #080497.
Comments			
ELEVATION BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM G 294 IN MARCH OF 2015 FOR JOB #080497.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station G 309	Date Monumented 10/11/2004	Monumented By NGS	County WASHINGTON	Route 265	Job Number: 012007
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	209,473.6569	
Easting (M)	209,074.1970	
Elevation (M)*	411.166	
Northing (SFT)	687,248.1560	
Easting (SFT)	685,937.5947	
Elevation (SFT)*	1,348.967	

Convergence Angle	-1	14	7.7034779
Scale Factor	0.999994122		
Elevation Adjust. Factor	0.9999354788		
Combined Adjust. Factor	0.9999296012		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	END OF CHAIN LINK FENCE		2.19	7.2
MK # 2	EAST OF NEAREST RAILROAD RAIL		12.86	42.2
MK # 3	POWER POLE		2.00	6.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AGRONOMY Ref Mon # 2 V 26 Ref Mon # 3 040054	FIRST ORDER, SECOND CLASS VERTICAL NGS BENCHMARK.

Vertical Determined By:	2nd Order by NGS
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 12 10.3125384
Longitude	94 7 23.4269508
Ellipsoid Height (M):	383.187
Geoid Height (M):	-27.979

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND STATE HIGHWAY 265, NORTH OF SPRINGDALE, GO SOUTH ON HIGHWAY 265 FOR 1.5 MILES TO RANDALL WOBBLE LANE AND TURN RIGHT (WEST) AND GO 0.30 MILES TO THE STATION MARK ON THE LEFT, SOUTH OF THE CENTERLINE OF THE ROAD 8.17 METERS AND SOUTH 0.35 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "G 309 2004" ON TOP OF A 3.4 METER STEEL ROD DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station G 309A	Date Monumented 10/6/2004	Monumented By AHTD	County WASHINGTON	Route 265	Job Number: 012007,040520
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	209,474.2880	
Easting (M)	209,664.8770	
Elevation (M)*	422.470	
Northing (SFT)	687,250.2265	
Easting (SFT)	687,875.5173	
Elevation (SFT)*	1,386.054	

Convergence Angle	-1	13	53.9478783
Scale Factor	0.999994145		
Elevation Adjust. Factor	0.9999337050		
Combined Adjust. Factor	0.9999278504		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND STATE HIGHWAY 265, NORTH OF SPRINGDALE, GO SOUTH ON HIGHWAY 265 FOR 1.5 MILES TO THE STATION MARK ON THE LEFT, EAST 22.7 METERS OF THE CENTERLINE OF THE HIGHWAY AND ITS JUNCTION WITH RANDALL WOBBLE LANE, AND WEST 1.4 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "G 309A 2004" ON TOP OF A 0.80 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	CULVERT		7.80	25.6	G 309
MK # 2	NORTH END OF CONC DRAINAGE DITCH		24.90	81.7	268 42 26
MK # 3					269 56 19

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 V 26 Ref Mon # 2 AGRONOMY Ref Mon # 3 040054	3-wire Levels ran from NGS G309 in Oct 05 by S5101 in Job 040440/012007.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station G 310	Date Monumented	Monumented By NOAA	County MILLER	Route 82	Job Number: RX0018
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	484,889.8791	
Easting (M)	228,630.9090	
Elevation (M)*	74.014	
Northing (SFT)	1,590,842.8783	
Easting (SFT)	750,099.9073	
Elevation (SFT)*	242.828	

Convergence Angle	-1	1	52.6816917
Scale Factor	0.999975911		
Elevation Adjust. Factor	0.9999883849		
Combined Adjust. Factor	0.9999642962		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	HOPE PORT
Ref Mon # 2	GARLAND
Ref Mon # 3	X 303

Comments

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 33 25 5.2734252

Longitude 93 50 33.4526892

Ellipsoid Height (M): 46.591

Geoid Height (M): -27.423

Location Description

FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 15.61 KM (9.70 MILES) TO THE STATION ON THE LEFT. THE STATION IS 17.3 METERS NORTH OF THE CENTERLINE OF HWY. 82, 14.7 METERS EAST OF TELEPHONE PEDESTAL NUMBER 212232, 4.8 METERS SOUTH OF A POWER POLE AND 2.4 METERS SOUTH OF A WITNESS POST AND FENCE. THE STATION MARK IS A DATUM POINT REACHED THROUGH A FIVE INCH LOGO CAP. A STAINLESS STEEL ROD IN SLEEVE SET TO A DEPTH OF 35.0 METERS ENCASED IN A PIPE FLUSH WITH THE GROUND. THE SLEEVE DEPTH IS RECORDED AT 7.6 METERS.

AZ Mark Station	460005
Geodetic Azimuth	263 26 47.45983
Grid Azimuth	264 28 40.21834

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station G 8	Date Monumented	Monumented By NGS	County White	Route NA	Job Number: 050189
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Level
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 101,535.8231		Latitude 35 14 54.0354264
Easting (M) 420,470.0010		Longitude 91 46 30.2613420
Elevation (M)* 90.147		Ellipsoid Height (M): 63.377
Northing (SFT) 333,122.1130		Geoid Height (M): -27.261
Easting (SFT) 1,379,491.9949		
Elevation (SFT)* 295.757		

Convergence Angle	0	7	51.1862190
Scale Factor	0.999953019		
Elevation Adjust. Factor	0.9999858532		
Combined Adjust. Factor	0.9999388729		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 Hebeport, G 8 Ref Mon # 3	Comments 3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station G308	Date Monumented 4/9/2003	Monumented By NOAA	County LITTLE RIVER	Route 32	Job Number: 030250
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 519,628.7212		Latitude 33 43 18.5862180
Easting (M) 177,975.6650		Longitude 94 23 45.0779676
Elevation (M)* 127.687		Ellipsoid Height (M): 100.613
Northing (SFT) 1,704,815.2295		Geoid Height (M): -27.074
Easting (SFT) 583,908.4943		
Elevation (SFT)* 418.920		

Convergence Angle -1 20 27.3758117	Location Description
Scale Factor 0.999933264	<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 41 AND HIGHWAY 32 WEST IN FORMAN, GO WEST ON HIGHWAY 32 FOR 0.20 MILES TO THE STATION ON THE RIGHT LOCATED AT THE NORTH WEST CORNER OF THE JUNCTION OF HIGHWAY 32 AND NORTH BELL STREET. THE STATION IS 10.4 METERS NORTH OF THE CENTERLINE OF HIGHWAY 32 AND 8.9 METERS WEST OF NORTH BELL STREET AND 0.50 METERS SOUTH OF A WITNESS POST. THIS IS AT THE SOUTHEAST CORNER OF THE U.S. POST OFFICE PARKING LOT IN FORMAN. THE STATION MARK IS A PUNCH MARK ON TOP OF A 5/8 INCH STAINLESS ROD INCASED IN A 5 INCH PVC PIPE STAMPED "G308 1986". ACCESS IS THROUGH A 5 INCH LOGO CAP. THIS IS A NGS BENCH MARK.</p>
Elevation Adjust. Factor 0.9999799621	
Combined Adjust. Factor 0.9999132275	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE	171	0.80	2.6	AZ Mark Station G308A
MK # 2	U.S. POST OFFICE SIGN	300	7.50	24.6	Geodetic Azimuth 269 39 47
MK # 3					Grid Azimuth 271 00 14

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 HOPE, TEXARKANA</p> <p>Ref Mon # 2 X303</p> <p>Ref Mon # 3 DQUA</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station G308A	Date Monumented 4/9/2003	Monumented By AHTD	County LITTLE RIVER	Route 32	Job Number: 030250
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Zone Arkansas South	Zone Code 302	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 519,637.0262		Geoid Datum:
Easting (M) 177,501.8130		Latitude 33 43 18.4953972
Elevation (M)* 		Longitude 94 24 3.4867296
Northing (SFT) 1,704,842.4768		Ellipsoid Height (M): 99.511
Easting (SFT) 582,353.8648		Geoid Height (M): -27.075
Elevation (SFT)* 		

Convergence Angle -1 20 37.6790243	Scale Factor 0.999933267
Elevation Adjust. Factor 	
Combined Adjust. Factor 	

SUPERCEDED CONTROL	
Horizontal Datum 	
Latitude 	
Longitude 	
Ellipsoid Height: 	
Grid Northing (Meters) 	
Grid Easting (Meters) 	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	85	16.70	54.8
MK # 2	24" WATER OAK	119	18.60	61.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPE, TEXARKANA	
Ref Mon # 2 X303	
Ref Mon # 3 DQUA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station GAYLOR	Date Monumented 1/1/1971	Monumented By CGS	County CRAWFORD	Route 71	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	159,562.0139	
Easting (M)	208,725.4910	
Elevation (M)*	636.879	
Northing (SFT)	523,496.3739	
Easting (SFT)	684,793.5484	
Elevation (SFT)*	2,089.494	

Convergence Angle	-1	13	50.8513910
Scale Factor	0.999940261		
Elevation Adjust. Factor	0.9999000629		
Combined Adjust. Factor	0.9998403299		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>THE STATION IS LOCATED ABOUT 14 KM (8.70 MI) NORTH-NORTHEAST OF MOUNTAINBURG, 4 KM (2.50 MI) SOUTH-SOUTHEAST OF WINSLOW, 0.15 KM (0.10 MI) NORTH OF A LOOKOUT TOWER, 0.08 KM (0.05 MI) SOUTH-SOUTHEAST OF STEEL ANTENNA TOWER ABOUT 100 M (328.1 FT) TALL, AT THE HIGHEST POINT IN THE VICINITY AND IN THE HIGHWAY RIGHT-OF-WAY. OWNERSHIP--ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 74 IN WINSLOW, GO SOUTHERLY ON HIGHWAY 71 FOR 7.0 KM (4.35 MI) TO THE TOP OF THE MOUNTAIN AND THE STATION ON THE RIGHT. THE STATION IS SET IN THE TOP OF A 35 CM ROUND CONCRETE POST RECESSED 3 CM BELOW THE GROUND. IT IS 49.5 M (162.4 FT) SOUTHEAST OF THE CORNER OF A HOUSE, 26.4 M (86.6 FT) EAST-SOUTHEAST OF A POWERLINE POLE, 17.1 M (56.1 FT) NORTH OF THE NORTHEAST CORNER OF A 1 M (3.3 FT) SQUARE CONCRETE WELL CASING PROJECTING 1 M (3.3 FT) ABOVE GROUND, 12.5 M (41.0 FT) WEST OF AND ABOUT 1 M (3.3 FT) HIGHER THAN THE SOUTHBOUND LANES OF THE HIGHWAY CENTER AND 2.1 M (6.9 FT) WEST OF A FIBERGLASS WITNESS POST AT THE TOP OF A CUTBANK IN THE RIGHT-OF-WAY.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station GPS 47	Date Monumented 1/1/1987	Monumented By NGS	County TIPTON / TN	Route N/A	Job Number: NA
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Zone Arkansas South	Zone Code 	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum 		Elevation Datum: NAVD 88
Northing (M) 	#Error 	Geoid Datum:
Easting (M) 	#Error 	Latitude
Elevation (M)* 82.860		Longitude
Northing (SFT) 	#Type! 	Ellipsoid Height (M):
Easting (SFT) 	#Type! 	Geoid Height (M):
Elevation (SFT)* 271.850		

Convergence Angle ### ###	#Error 	Location Description
Scale Factor 	#Error 	<p>THE STATION IS LOCATED ABOUT 5 KM (3.10 MI) NORTHEAST OF COVINGTON, AT THE COVINGTON MUNICIPAL AIRPORT, BETWEEN THE RUNWAY AND PARALLEL TAXIWAY, AND ALONG THE SOUTH SIDE OF THE CONNECTOR TAXIWAY TO THE NORTH END OF THE RUNWAY. OWNERSHIP--CITY OF COVINGTON, ATTENTION JERRY HADLEY, PO BOX 768, COVINGTON TN 38019. AIRPORT MANAGER IS DAVE PEELER, 169 AIRPORT PARKWAY DRIVE, COVINGTON TN 38019, PHONE 901-476-1392. CALL AHEAD FOR ACCESS THROUGH THE LOCKED GATE. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 51 AND STATE HIGHWAYS 54 AND 59 IN COVINGTON, GO NORTH ON HIGHWAY 51 FOR 1.29 KM (0.80 MI) TO THE JUNCTION OF STATE HIGHWAY 384. CONTINUE NORTH ON HIGHWAY 51 FOR 2.25 KM (1.40 MI) TO A PAVED ROAD RIGHT JUST BEFORE REACHING A GRAIN ELEVATOR ON THE RIGHT. TURN RIGHT, EAST ON COUNTY ROAD 8391 (ANTIOCH ROAD) FOR 0.82 KM (0.50 MI) TO A FORK. TURN RIGHT, SOUTH ON ANTIOCH ROAD FOR 0.14 KM (0.10 MI) TO A FORK. TURN LEFT, EAST ON ANTIOCH ROAD FOR 3.38 KM (2.10 MI) TO THE PAVED AIRPORT ENTRANCE ROAD ON THE RIGHT. TURN RIGHT, SOUTH ON THE ROAD FOR 0.32 KM (0.20 MI) TO THE BRICK TERMINAL BUILDING AND A PAVED ROAD RIGHT. TURN RIGHT, WEST ON THE</p>
Elevation Adjust. Factor 0.9999869967		
Combined Adjust. Factor 	#Type! 	

SUPERCEDED CONTROL				
Horizontal Datum 		Latitude 		
Longitude 		Ellipsoid Height: 		
Grid Northing (Meters) 		Grid Easting (Meters) 		

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	GPS 47 AZ MK (FE2779)
			Meters	Feet		
MK # 1	RUNWAY CENTER	E	37.50	123.0	Geodetic Azimuth	189 52 11.0
MK # 2	THE NORTHEAST CORNER OF THE PAPI	NE	20.40	66.9	Grid Azimuth	191 58 07.8
MK # 3	CENTER OF THE CONNECTOR TAXIWAY	S	13.70	44.9		

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
GRADY 1940	1/1/1940	USC&GS	LINCOLN	65	20137,R20091

Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	556,425.6490	
Easting (M)	428,419.2480	
Elevation (M)*	56.152	
Northing (SFT)	1,825,539.8168	
Easting (SFT)	1,405,572.1495	
Elevation (SFT)*	184.225	

Convergence Angle	0	10	20.4249166
Scale Factor	0.999918740		
Elevation Adjust. Factor	0.9999911880		
Combined Adjust. Factor	0.9999099287		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	4	35.9000076
Longitude	91	41	31.4739132
Ellipsoid Height:	29.424		
Grid Northing (Meters)	556,425.8620		
Grid Easting (Meters)	428,419.5593		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	12" CONCRETE CULVERT	195	21.00	68.9
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	AHTD MON 1
Ref Mon # 2	J 112
Ref Mon # 3	K 124

Vertical Determined By:	1st Order by NGS
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 4 35.8931244
Longitude	91 41 31.4860812
Ellipsoid Height (M):	30.282
Geoid Height (M):	-25.869

Location Description
<p>TO REACH THE STATION FROM THE POST OFFICE IN GRADY, GO SOUTHEAST ON U.S. HIGHWAY 65 FOR 0.72 KM (0.45 MI) TO THE STATION ON THE LEFT IN A VACANT LOT TO THE NORTHWEST OF THE JUNCTION OF U.S. HIGHWAY 65 AND GUM STREET. THE STATION IS 36.88 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 65, 48.60 METERS WEST OF THE CENTER OF GUM STREET AND 0.35 METERS SOUTH OF A FIBERGLASS WITNESS POST. THE STATION MARK IS A STANARD DISK SET IN THE TOP OF A CONCRETE POST FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station GRADY AZ	Date Monumented 7/19/1995	Monumented By AHTD	County LINCOLN	Route 65	Job Number: 20137,R20091
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	556,577.9070	
Easting (M)	428,072.3690	
Elevation (M)*	56.872	
Northing (SFT)	1,826,039.3499	
Easting (SFT)	1,404,434.0973	
Elevation (SFT)*	186.588	

Convergence Angle	0	10	12.8620704
Scale Factor	0.999918758		
Elevation Adjust. Factor	0.9999910750		
Combined Adjust. Factor	0.9999098337		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	4	40.8751500
Longitude	91	41	44.9865816
Ellipsoid Height:	30.157		
Grid Northing (Meters)	556,578.1081		
Grid Easting (Meters)	428,072.6772		

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing) Ref Mon # 1 AHTD MON 1 Ref Mon # 2 J 112 Ref Mon # 3 K 124	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px; vertical-align: top;"> THE ELEVATION BY 3-WIRE USING STATION "GRADY 1940". </td> </tr> </table>	Comments	THE ELEVATION BY 3-WIRE USING STATION "GRADY 1940".
Comments			
THE ELEVATION BY 3-WIRE USING STATION "GRADY 1940".			

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 4 40.8686520
Longitude	91 41 44.9986272
Ellipsoid Height (M):	31.004
Geoid Height (M):	-25.867

Location Description
TO REACH THE STATION FROM THE POST OFFICE IN GRADY, GO SOUTH ON U.S. HIGHWAY 65 FOR 0.35 KM (0.22 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.0 METERS WEST OF THE CENTER OF U.S. HIGHWAY 65, 12.90 METERS EAST OF THE EASTERMOST RAIL OF THE RAILROAD TRACK AND 0.70 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "GRADY AZ 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
GRASSY ROCK	5/11/1993	AHTD	CRAWFORD	n/a	NA

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	146,857.1380	
Easting (M)	194,590.6110	
Elevation (M)*		
Northing (SFT)	481,813.7936	
Easting (SFT)	638,419.3629	
Elevation (SFT)*		

Convergence Angle	-1	19	11.3939405
Scale Factor	0.999936338		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JCT. OF HWY-282 & HWY-64 ON THE EASTERN EDGE OF VAN BUREN, GO NORTHERLY ON HWY-282 FOR 10.54 KM. (6.55 MI.) TO THE JCT. OF HWY-60 NORTH AND HWY-282 TO RUDY, GO STRAIGHT ON HWY-60 FOR 3.86 KM. (2.40 MI.) TO THE END OF STATE MAINTANCE, CONTINUE AHEAD ON PAVED ROAD FOR 4.02 KM. (2.50 MI.) TO THE END OF THE ASPHALT. CONTINUE AHEAD ON GRAVEL ROAD FOR 1.609 KM. (1.0 MI.) TO THE JUNCTION OF THREE ROADS. "OLD HOBBTOWN WAY" TO THE LEFT, "OZARK ROAD" STRAIGHT AHEAD AND "OLD 88 ROAD" AT AN ANGLE TO THE RIGHT. GO RIGHT ON "OLD 88 RD." FOR 0.322 KM. (0.20 MI.) TO THE JCT. WITH "OLD 81 RD.", GO LEFT ON "OLD 88 RD." AND FOLLOW THIS MAIN GRAVEL ROAD FOR 5.150 KM. (3.20 MI.) TO A SMALL FRAME HOUSE ON THE LEFT AND "GRASSY 1935 " AZIMUTH MARK ON THE LEFT IN THE YARD NEAR THE GRAVEL ROAD. PASS THROUGH A METAL GATE JUST SOUTH OF THE AZ. MARK AND GO EASTERLY ACROSS THE PASTURE FOR 0.161 KM. (0.10 MI.) TO THE STATION MARK, A DRILL HOLE IN OUTCROPPING BEDROCK ABOUT 0.76 BY 0.91 METERS SQUARE. AND PROJECTS ABOUT 0.80 CM.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF RUN DOWN BAR	SSW	39.00	128.0
MK # 2	GAP IN A NORTH-SOUTH FENCELINE	EAST	51.00	167.3
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	GRASSY	<p>See Job R40116 File. THIS STATION WAS SET USING GRASSY 1935 AND IT'S AZIMUTH MARK. A RESECTION WAS DONE AND A COORDINATE WAS CALCULATED FROM EDM DISTANCES AND ANGLES.</p>
Ref Mon # 2	NONE	
Ref Mon # 3	NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station H 297	Date Monumented 1/1/1984	Monumented By NOAA	County SEBASTIAN	Route 255	Job Number: R40117
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 113,721.5613		Latitude 35 20 16.5580080
Easting (M) 198,424.8496		Longitude 94 13 3.2974572
Elevation (M)* 118.913		Ellipsoid Height (M): 88.983
Northing (SFT) 373,101.4890		Geoid Height (M): -29.930
Easting (SFT) 650,998.8607		
Elevation (SFT)* 390.134		

Convergence Angle -1 17 25.4738292	Scale Factor 0.999945124
Elevation Adjust. Factor 0.9999813390	Combined Adjust. Factor 0.9999264640

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 240006	ELEVATION BASED ON NGS ELEVATION SHEET
Ref Mon # 2 650007	
Ref Mon # 3 GAYLOR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station H 297A	Date Monumented 8/6/2000	Monumented By AHTD	County SEBASTIAN	Route 255	Job Number: R40117,C56008A
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	113,691.9601	
Easting (M)	199,006.3772	
Elevation (M)*	119.805	
Northing (SFT)	373,004.3724	
Easting (SFT)	652,906.7559	
Elevation (SFT)*	393.060	

Convergence Angle	-1	17	12.0612173
Scale Factor	0.999945135		
Elevation Adjust. Factor	0.9999811990		
Combined Adjust. Factor	0.9999263351		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEVATION BASED ON THREE WIRE LEVELS FROM NGS PT H 297
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station H 314	Date Monumented 1/2/1990	Monumented By NOAA	County CRITTENDEN	Route 63	Job Number: 001849
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	120,670.0613	
Easting (M)	556,085.8973	
Elevation (M)*	67.902	
Northing (SFT)	395,898.3594	
Easting (SFT)	1,824,425.1481	
Elevation (SFT)*	222.775	

Convergence Angle	1	0	0.1730589
Scale Factor	0.999940601		
Elevation Adjust. Factor	0.9999893441		
Combined Adjust. Factor	0.9999299457		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-55 AND U.S. HIGHWAY 63, LOCATED ABOUT 20.00 KM (12.40 MI) SOUTHEAST OF MARKED TREE, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 1.93 KM (1.20 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 9.40 METERS WEST OF THE CENTER OF NORTHBOUND LANE OF U.S. HIGHWAY 63, 9.30 METERS SOUTH OF THE CENTER OF A PAVED CROSSOVER, 2.52 METERS SOUTH-SOUTHEAST OF A U.S. ARMY CORPS OF ENGINEERS WITNESS POST SET AT A YIELD SIGN AND 0.50 METERS EAST-NORTHEAST OF AN AHTD WITNESS POST. THE STATION MARK IS STAINLESS STEEL ROD WITH A PUNCH MARK ON TOP OF THE ROD WITH ACCESS THROUGH A 0.127 METER LOGO CAP STAMPED "H 314 1990". THE SHOT DISTANCE IS 596.907 METERS.</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 W 15 OFFSET</p> <p>Ref Mon # 2 MANIPORT</p> <p>Ref Mon # 3 MEM2</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station H 314A	Date Monumented 10/2/2000	Monumented By AHTD	County CRITTENDEN	Route 63	Job Number: 001849
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 120,113.6981		Latitude 35 24 13.3193268
Easting (M) 556,302.0347		Longitude 90 16 44.8831956
Elevation (M)* 67.745		Ellipsoid Height (M): 40.311
Northing (SFT) 394,073.0245		Geoid Height (M): -27.446
Easting (SFT) 1,825,134.2588		
Elevation (SFT)* 222.260		

Convergence Angle 1 0 4.9330666	Location Description
Scale Factor 0.999940873	<p>TO REACH THE STATION FROM THE JUNCTION OF I-55 AND U.S. HIGHWAY 63, LOCATED ABOUT 20.00 KM (12.40 MI) SOUTHEAST OF MARKED TREE, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 1.37 KM (0.85 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 34.90 METERS NORTH-NORTHWEST OF THE CENTER OF A PAVED CROSSOVER, 14.45 METERS EAST-NORTHEAST OF THE CENTER OF THE SOUTHBOUND LANE OF U.S. HIGHWAY 63, 11.15 METERS WEST-SOUTHWEST OF THE NORTHBOUND LANE OF U.S. HIGHWAY 63 AND 0.50 METERS EAST-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "H 314A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK H 314. THE SHOT DISTANCE IS 596.907 METERS.</p>
Elevation Adjust. Factor 0.9999893687	
Combined Adjust. Factor 0.9999302423	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 W 15 OFFSET	
Ref Mon # 2 MANIPORT	
Ref Mon # 3 MEM2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
5 1990 SUPERCE		NOAA	CRAIGHEAD	63	R00059,100293,100417

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	169,665.1140	
Easting (M)	510,518.4040	
Elevation (M)*	87.926	

Northing (SFT)	556,642.9615	
Easting (SFT)	1,674,925.7971	
Elevation (SFT)*	288.471	

Convergence Angle	0	42	43.3167121
Scale Factor	0.999947185		
Elevation Adjust. Factor	0.9999862017		
Combined Adjust. Factor	0.9999333875		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	51	23.2306956
Longitude	90	46	34.9128516
Ellipsoid Height:	59.293		
Grid Northing (Meters)	169,665.4022		
Grid Easting (Meters)	510,518.3856		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	242	14.45	47.4
MK # 2	1.60 METER OAK	9	30.20	99.1
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 NEWSPORT Ref Mon # 2 P 315 Ref Mon # 3 AHTD PAR1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>THIS STATION IS AN NGS BENCH MARK.</td> </tr> </table>	Comments	THIS STATION IS AN NGS BENCH MARK.
Comments			
THIS STATION IS AN NGS BENCH MARK.			

Vertical Determined By:	1st Order by NGS
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 51 23.2213356
Longitude	90 46 34.9122648
Ellipsoid Height (M):	60.234
Geoid Height (M):	-27.692

Location Description
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63, 63B AND STATE HIGHWAYS 91 NORTH AND 18 WEST ON THE NORTHWEST SIDE OF JONESBORO, GO SOUTHERLY ON U.S. HIGHWAY 63 FOR 0.24 KM. (0.15 MI.) TO THE STATION ON THE LEFT ALONG THE EAST RIGHT OF WAY FENCE. 20.5 METERS NORTHEAST OF THE CENTER OF THE NORTH BOUND LANE OF HWY-63, 0.45 METERS WEST SOUTHWEST OF A METAL WITNESS POST SET IN THE FENCE LINE AND 0.35 METERS SOUTHWEST OF A CARSONITE WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN TO AN UNKNOWN DEPTH AND SURROUNDED BY A PLASTIC PIPE WITH A LOGO CAP STAMPED "H 315 1990" AND ENCASED IN CONCRETE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station H 315 A	Date Monumented 6/6/1996	Monumented By AHTD	County CRAIGHEAD	Route 63	Job Number: 100417,R00059
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	169,288.1459	
Easting (M)	510,763.5660	
Elevation (M)*	87.472	
Northing (SFT)	555,406.1920	
Easting (SFT)	1,675,730.1328	
Elevation (SFT)*	286.981	

Convergence Angle	0	42	48.8934233
Scale Factor	0.999946904		
Elevation Adjust. Factor	0.9999862730		
Combined Adjust. Factor	0.9999331777		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	35	51	10.9014768
Longitude	90	46	25.3290720
Ellipsoid Height:	58.841		
Grid Northing (Meters)	169,288.4419		
Grid Easting (Meters)	510,763.5511		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	"X" CUT IN TOP OF A CONCRETE POST	310	0.89	2.9
MK # 2	"X" CUT IN TOP OF A CONCRETE POST	313	5.97	19.6
MK # 3	"X" CUT IN TOP OF A CONCRETE POST	317	12.04	39.5

Area Reference Monuments (used for Processing) Ref Mon # 1 NEWSPORT Ref Mon # 2 P 315 Ref Mon # 3 AHTD PAR1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEVATION BY 3-WIRE USING NGS BENCH MARK NUMBER "H 315 1990" ELEVATION = 87.926 METERS.</td> </tr> </table>	Comments	ELEVATION BY 3-WIRE USING NGS BENCH MARK NUMBER "H 315 1990" ELEVATION = 87.926 METERS.
Comments			
ELEVATION BY 3-WIRE USING NGS BENCH MARK NUMBER "H 315 1990" ELEVATION = 87.926 METERS.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 51 10.8918684
Longitude	90 46 25.3286256
Ellipsoid Height (M):	59.782
Geoid Height (M):	-27.690

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63, 63B AND STATE HIGHWAYS 91 NORTH AND 18 WEST ON THE NORTHWEST EDGE OF JONESBORO GO SOUTHERLY ON HWY-63 FOR 0.64 KM. (0.40 MI.) TO THE STATION ON THE LEFT IN THE MEDIAN. 9.89 METERS SOUTHWEST OF THE CENTER OF HWY-63 NORTH, 9.79 METERS NORTHEAST OF THE CENTER OF HWY-63 SOUTH AND 0.75 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "H 315 A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

AZ Mark Station	H 315 1990
Geodetic Azimuth	327 40 32.01118
Grid Azimuth	326 57 43.09943

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station H 349	Date Monumented 1/1/1983	Monumented By NGS	County TUNICA / MS	Route N/A	Job Number: NA
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	45,284.9419 0.0000
Easting (M)	542,319.8750 0.0000
Elevation (M)*	67.135
Northing (SFT)	148,572.3469
Easting (SFT)	1,779,261.1232
Elevation (SFT)*	220.259

Convergence Angle	0 54 15.2717401
Scale Factor	1.000045835
Elevation Adjust. Factor	0.9999894644
Combined Adjust. Factor	1.0000352990

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	1st Order - NGS
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	34 43 53.0040000
Longitude	90 26 45.7800000
Ellipsoid Height (M):	131.604 0.0000
Geoid Height (M):	-88.678 0.0000

Location Description
<p>THE STATION IS LOCATED ABOUT 7.6 KM (4.70 MI) NORTHWEST OF TUNICA, NEAR THE TOP OF THE MISSISSIPPI RIVER LEVEE AT MILEPOST 34/35, BETWEEN TWO METAL GUARD POSTS. OWNERSHIP--U.S. ARMY CORPS OF ENGINEERS. MAINTAINED BY YMD LEVEE BOARD, CLARKSDALE MS. HEAD OF OPERATIONS IS KEN WEILEND, PHONE 601-624-4397. NOTE--FOR ACCESS THROUGH LOCKED GATE, CONTACT MR. WEILEND 24-HOURS IN ADVANCE. HE WILL NOTIFY THE TUNICA FIELD OFFICE AND HAVE SOMEONE MEET THE OBSERVER AT THE LEVEE AND GATE. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 61 AND STATE HIGHWAY 4 WEST NEAR THE EAST EDGE OF TUNICA, GO NORTH FOR 1.7 KM (1.05 MI) ON HIGHWAY 61 TO THE JUNCTION OF MHOON LANDING PKY ON THE LEFT. TURN LEFT, WESTERLY FOR 7.89 KM (4.90 MI) ALONG THE PARKWAY TO THE TOP OF THE LEVEE. TURN LEFT, SOUTHWEST FOR 0.51 KM (0.30 MI) PASSING THROUGH THE GATE AND ALONG THE GRAVEL LEVEE ROAD TO MILEPOST 34/35 AND THE STATION. THE STATION IS THE TOP CENTER OF A STAINLESS STEEL DATUM POINT RECESSED 5 CM BELOW GROUND CRIMPED TO THE TOP OF A STAINLESS STEEL ROD DRIVEN TO A DEPTH OF 31.6 M (103.7 FT) ENCASED IN A 5-INCH PVC PIPE WITH NGS LOGO CAP SURROUNDED BY</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF LEVEE ROAD	SE	4.10	13.5
MK # 2			0.00	0.0
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing) <div style="margin-top: 10px;"> Ref Mon # 1 <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;"> Ref Mon # 2 <input style="width: 150px;" type="text"/> </div> <div style="margin-top: 10px;"> Ref Mon # 3 <input style="width: 150px;" type="text"/> </div>	<div style="border: 1px solid black; height: 150px; margin-top: 10px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station H 41	Date Monumented 1/1/1934	Monumented By CGS	County RANDOLPH	Route 115	Job Number: 100877, 101140
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD83 (2011)				
Northing (M)	218,654.0275	0.0020			
Easting (M)	492,561.6562	0.0020			
Elevation (M)*	112.758				
Northing (SFT)	717,367.4219				
Easting (SFT)	1,616,012.7004				
Elevation (SFT)*	369.940				

Convergence Angle	0	35	58.7600327		
Scale Factor	1.000013815				
Elevation Adjust. Factor	0.9999823049				
Combined Adjust. Factor	0.9999961197				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
2.9 MILES NORTH ALONG STATE HIGHWAY 115 FROM THE COUNTY COURTHOUSE AT POCAHONTAS, RANDOLPH COUNTY, AT THE JUNCTION WITH THE ROAD LEADING NORTHWEST TO WARM SPRINGS, ABOUT 50 FEET NORTH OF THE NORTH END OF A PIPE CULVERT, 42.5 FEET EAST OF THE CENTERLINE OF THE HIGHWAY, AND 1.5 FEET LOWER THAN THE HIGHWAY. A STANDARD DISK, STAMPED H 41 1934 AND SET IN THE TOP OF A CONCRETE POST. MARK IS CEMENTED IN A ROCK LEDGE, AND NOT IN A CONCRETE POST AS DESCRIBED.					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MODP Ref Mon # 2 ARPG Ref Mon # 3 ARBT	Elevation from NGS datasheet.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station H37 A	Date Monumented 1/1/1984	Monumented By NOS	County WASHINGTON	Route 265	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	207,311.3690	
Easting (M)	209,436.1260	
Elevation (M)*	407.380	
Northing (SFT)	680,154.0498	
Easting (SFT)	687,125.0234	
Elevation (SFT)*	1,336.546	

Convergence Angle	-1	13	58.1911086
Scale Factor	0.999990523		
Elevation Adjust. Factor	0.9999360729		
Combined Adjust. Factor	0.9999265965		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST EDGE OF THE RUNWAY	W	30.20	99.1
MK # 2	CENTER OF THE PARALLEL TAXIWAY	E	19.00	62.3
MK # 3	CENTER OF A STEEL DRAIN	NW	7.70	25.3

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 11 0.4292772
Longitude	94 7 7.0798404
Ellipsoid Height (M):	376.360
Geoid Height (M):	-28.020

Location Description
<p>THE STATION IS LOCATED ON THE NORTHEAST SIDE OF SPRINGDALE, AT THE SPRINGDALE MUNICIPAL AIRPORT, IN THE SOUTHWEST QUADRANT OF THE JUNCTION OF RUNWAY END 18 AND THE CONNECTOR TAXIWAY TO THE RUNWAY END, BETWEEN THE RUNWAY AND PARALLEL TAXIWAY. OWNERSHIP--CITY OF SPRINGDALE, AIRPORT MANAGER IS VERL THOMPSON, 802 AIRPORT ROAD, SPRINGDALE AR 72764, PHONE 501-751-4462. CALL IN ADVANCE FOR PERMISSION TO OCCUPY THIS STATION. TO REACH THE STATION FROM THE UNDERPASS AT THE JUNCTION OF U.S. HIGHWAYS 71 (TO BE RENAMED INTERSTATE HIGHWAY 540 IN APPROXIMATELY 1996) AND 412 (EXIT 52) IN NORTHERN SPRINGDALE, GO EAST ON HIGHWAY 412 FOR 4.15 KM (2.55 MI) TO A PAVED CROSSROAD, U.S. HIGHWAY 71B. TURN RIGHT, SOUTH ON HIGHWAYS 71B AND 412 FOR 0.76 KM (0.45 MI) TO A PAVED CROSSROAD (WHERE HIGHWAY 412 TURNS EAST AND 71B CONTINUES SOUTH). TURN LEFT, EAST ON HIGHWAY 412 FOR 1.34 KM (0.85 MI) TO A PAVED CROSSROAD, POWELL STREET. TURN LEFT, NORTH ON POWELL STREET FOR 0.08 KM (0.05 MI) TO AIRPORT AVENUE ON THE RIGHT. TURN RIGHT, EAST ON THE ENTRANCE ROAD FOR 0.4 KM (0.25 MI) TO THE TERMINAL ON THE RIGHT. CONTINUE AHEAD, NORTH, THEN WEST FOR 0.08 KM (0.05 MI) TO A GATE IN THE PERIMETER FENCE ON</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station HC 65 + 19	Date Monumented 	Monumented By S. ARMY C.O.	County CRAIGHEAD	Route 1	Job Number: 001853,100208,100672
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Vertical Determined By:</td> <td colspan="2">GPS - Unknown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="2">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="2"></td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>47 47.9370228</td> </tr> <tr> <td>Longitude</td> <td>90</td> <td>40 11.1162432</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>51.129</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-27.692</td> <td></td> </tr> </table>	Vertical Determined By:	GPS - Unknown Quality		Elevation Datum:	NAVD 88		Geoid Datum:			Latitude	35	47 47.9370228	Longitude	90	40 11.1162432	Ellipsoid Height (M):	51.129		Geoid Height (M):	-27.692	
Vertical Determined By:	GPS - Unknown Quality																						
Elevation Datum:	NAVD 88																						
Geoid Datum:																							
Latitude	35		47 47.9370228																				
Longitude	90		40 11.1162432																				
Ellipsoid Height (M):	51.129																						
Geoid Height (M):	-27.692																						
Horizontal Datum	NAD 83 (1997)																						
Northing (M)	163,155.6710																						
Easting (M)	520,236.4620																						
Elevation (M)*	78.805																						
Northing (SFT)	535,286.5639																						
Easting (SFT)	1,706,809.1257																						
Elevation (SFT)*	258.546																						

Convergence Angle	0	46	26.6472824
Scale Factor	0.999942784		
Elevation Adjust. Factor	0.9999876331		
Combined Adjust. Factor	0.9999304178		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 63, LOCATED ON THE SOUTH CENTRAL SIDE OF JONESBORO, GO SOUTH ON STATE HIGHWAY 1 FOR 1.13 KM (0.70 MI) TO THE STATION ON THE RIGHT SET JUST NORTH OF A BRIDGE. THE STATION IS 28.23 METERS SOUTH OF THE CENTER OF A CONCRETE DRIVE, 9.70 METERS NORTH OF A WITNESS POST AND 9.21 METERS WEST OF THE CENTER OF STATE HIGHWAY 1. THE STATION MARK IS U.S. ARMY C.O.E. DISK STAMPED "HC 65 + 19" SET IN CONCRETE.

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NORTHWEST CORNER OF BRIDGE	175	9.68	31.8		160018
MK # 2	CMP	340	23.03	75.6		182 20 15.50321
MK # 3	NONE					181 33 48.85436

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEWSPORT	
Ref Mon # 2 AHTD PAR 1	
Ref Mon # 3 MEM 2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station HEBEPORT	Date Monumented 1/1/1990	Monumented By NGS	County CLEBURNE	Route 5	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	131,029.5400	
Easting (M)	399,278.6000	
Elevation (M)*	192.470	
Northing (SFT)	429,886.0825	
Easting (SFT)	1,309,966.5402	
Elevation (SFT)*	631.462	

Convergence Angle	0	0	16.6603213
Scale Factor	0.999936674		
Elevation Adjust. Factor	0.9999697961		
Combined Adjust. Factor	0.9999064720		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>THE STATION IS LOCATED ABOUT 42 KM (26.10 MI) NORTHWEST OF SEARCY, 3 KM (1.85 MI) NORTH-NORTHEAST OF HEBER SPRINGS, AT THE HEBER SPRINGS MUNICIPAL AIRPORT, NEAR THE NORTHEAST END OF THE AIRFIELD, BETWEEN THE RUNWAY AND PARALLEL TAXIWAY, IN THE WEST QUADRANT OF THE JUNCTION OF THE RUNWAY END AND THE CONNECTOR TAXIWAY TO THE RUNWAY END. OWNERSHIP--CITY OF HEBER SPRINGS, 2111 AIRPORT ROAD, HEBER SPRINGS AR 72543. AIRPORT MANAGER IS DAN WORLEY, PHONE 501-362-3294. CONTACT HIM FOR ACCESS THROUGH THE LOCKED GATE. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 25 (BYPASS ROAD) AND 25B (HEBER SPRINGS ROAD) ABOUT 4 KM (2.50 MI) NORTHEAST OF HEBER SPRINGS, GO SOUTHWESTERLY ON HIGHWAY 25B FOR 1.45 KM (0.90 MI) TO A PAVED ROAD LEFT (COUNTY HIGHWAY 980/CHANELLE DRIVE). TURN LEFT, SOUTH ON THE ROAD FOR 0.38 KM (0.25 MI) TO A GATE AT THE APRON. PASS THROUGH THE GATE, THEN TURN RIGHT, SOUTHEAST ACROSS THE APRON AND ALONG A TAXIWAY FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF THE PARALLEL TAXIWAY. TURN LEFT, NORTHEAST ALONG THE TAXIWAY FOR 0.42 KM (0.25 MI) TO THE STATION ON THE RIGHT. THE STATION IS SET FLUSH IN THE TOP OF A 1.3 M (4.3 FT) X 2.2 M</p>				

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	CONNECTOR TAXIWAY CENTER		SW	56.00	183.7
MK # 2	CENTER OF THE PARALLEL TAXIWAY		S-SE	34.90	114.5
MK # 3	RUNWAY CENTER		N-NW	27.10	88.9

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station HILL	Date Monumented 1/1/1978	Monumented By DMA	County PULASKI	Route N/A	Job Number: NA
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	648,631.3911	
Easting (M)	387,361.1480	
Elevation (M)*	116.300	
Northing (SFT)	2,128,051.4890	
Easting (SFT)	1,270,867.3664	
Elevation (SFT)*	381.561	

Convergence Angle	0	4	38.6406491
Scale Factor	1.000034631		
Elevation Adjust. Factor	0.9999817491		
Combined Adjust. Factor	1.0000163794		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LARGE LONE OAK TREE	S-SW	84.50	277.2
MK # 2	SOUTH EDGE OF THIRD STREET	S	53.50	175.5
MK # 3	A LARGE ROCK FORMATION	E	1.00	3.3

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 54 29.4335388
Longitude	92 8 17.8475712
Ellipsoid Height (M):	89.210
Geoid Height (M):	-27.050

Location Description
THE STATION IS LOCATED ON A SMALL RIDGE ON LITTLE ROCK AIR FORCE BASE, NEAR JACKSONVILLE. TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 67/167 AND VANDENBERG BOULEVARD, GO WEST AND NORTHWESTERLY ON VANDENBERG BOULEVARD FOR 1.8 MI (2.9 KM) TO A SIDE ROAD RIGHT, THOMAS AVENUE. TURN RIGHT AND GO NORTH ON THOMAS AVENUE FOR 0.9 MI (1.4 KM) TO A SIDE ROAD, THIRD STREET. TURN RIGHT AND GO EAST ON THIRD STREET FOR 0.15 MI (0.24 KM) TO A LARGE LONE OAK TREE AND THE STATION ON THE LEFT SIDE OF THE ROAD. THE STATION IS FLUSH WITH THE GROUND.

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
HINDSVILLE AZ	1/1/1971	USC&GS	MADISON	412	9951

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	204,515.2150	
Easting (M)	231,247.3670	
Elevation (M)*	436.578	
Northing (SFT)	670,980.3345	
Easting (SFT)	758,684.0699	
Elevation (SFT)*	1,432.340	

Convergence Angle	-1	5	29.1025643
Scale Factor	0.999986723		
Elevation Adjust. Factor	0.9999314914		
Combined Adjust. Factor	0.9999182153		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	23	1.10	3.6
MK # 2	POWER POLE	172	11.06	36.3
MK # 3	2" PIPE CORNER FENCE POST	273	7.40	24.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 PRICE Ref Mon # 2 HUNTSVILLE Ref Mon # 3 NONE	Cross Reference Job: 9948

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NGVD 29

Geoid Datum:

Latitude 36 9 44.0818992

Longitude 93 52 32.2056228

Ellipsoid Height (M): 407.863

Geoid Height (M): -28.545

Location Description

FROM THE JCT. OF HWY. 412, HWY. 45 AND HWY. 295 IN THE CENTER OF HINDSVILLE, GO WEST ON HWY. 412 FOR 3.057 KM (1.90 MILES) TO THE STATION ON THE LEFT NEAR A FENCE CORNER. THE STATION IS 12.4 METERS SOUTH OF THE CENTERLINE OF HWY. 412, 3.23 METERS EAST OF THE CENTER OF COUNTY ROAD NO. 444 AND 0.74 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD USC&GS CAP STAMPED "HINDSVILLE 1971" SET IN THE TOP OF A 12" CYLINDRICAL CONCRETE POST THAT PROJECTS 2 CENTIMETERS ABOVE THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
HINDSVILLE NO.	1/1/1971	USC&GS	MADISON	412	9951

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	204,162.4269	
Easting (M)	232,424.2520	
Elevation (M)*	444.614	
Northing (SFT)	669,822.8956	
Easting (SFT)	762,545.2334	
Elevation (SFT)*	1,458.704	

Convergence Angle	-1	5	1.5521141
Scale Factor	0.999986201		
Elevation Adjust. Factor	0.9999302304		
Combined Adjust. Factor	0.9999164324		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	12" WALNUT TREE	185	18.60	61.0
MK # 2	8" CROSS BRACE POST	359	20.70	67.9
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 PRICE	Cross Reference Job: 9948
Ref Mon # 2 HUNTSVILLE	
Ref Mon # 3 NONE	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	36 9 33.3628560
Longitude	93 51 44.8598736
Ellipsoid Height (M):	415.913
Geoid Height (M):	-28.544

Location Description
<p>FROM THE JCT. OF HWY. 412, HWY. 45 AND HWY. 295 IN THE CENTER OF HINDSVILLE, GO NORTHERLY ON HWY. 412 FOR 1.77 KM (1.10 MILES) TO THE STATION ON THE LEFT. THE STATION IS 12.09 METERS WEST OF THE CENTERLINE OF HWY. 412 AND 0.51 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD USC&GS CAP STAMPED "HINDSVILLE NO 2 1971" SET IN THE TOP OF A 12" CYLINDRICAL CONCRETE POST AND IS FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station HOPE 2	Date Monumented 1/2/1997	Monumented By AHTD	County HEMPSTEAD	Route 29	Job Number: 030238
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	515,514.5227	
Easting (M)	251,417.3333	
Elevation (M)*	106.954	
Northing (SFT)	1,691,317.2299	
Easting (SFT)	824,858.3677	
Elevation (SFT)*	350.899	

Convergence Angle	0	53	49.4915672
Scale Factor	0.999935638		
Elevation Adjust. Factor	0.9999832157		
Combined Adjust. Factor	0.9999188548		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF I-30 AND STATE HIGHWAY 29 (EXIT 31), LOCATED ON THE NORTH SIDE OF HOPE, GO NORTH ON STATE HIGHWAY 29 FOR 0.89 KM (0.55 MI) TO THE JUNCTION OF COUNTY ROAD 221 AND THE STATION ON THE RIGHT. THE STATION IS 27.34 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 29, 24.17 METERS EAST OF A UTILITY POLE, 13.32 METERS EAST-SOUTHEAST OF A UTILITY POLE AND 11.58 METERS SOUTH OF THE CENTER OF COUNTY ROAD 221. THE STATION MARK IS A PINCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH AN AHTD LOGO CAP STAMPED "AHTD HOPE2 1997. THE SHOT DISTANCE IS 248.939 METERS.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					AHTD HOPE 1
MK # 2	NONE					126 28 55.33498
MK # 3	NONE					127 22 44.80756

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPE 1	
Ref Mon # 2 HOPE 2	
Ref Mon # 3 HOPEPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station HOPE 1	Date Monumented 1/2/1997	Monumented By AHTD	County HEMPSTEAD	Route 29	Job Number: 030238
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	515,363.5564	0.0000			
Easting (M)	251,614.8360	0.0000			
Elevation (M)*	108.036				
Northing (SFT)	1,690,821.9346				
Easting (SFT)	825,506.3411				
Elevation (SFT)*	354.449				

Convergence Angle	0	53	45.1481812
Scale Factor	0.999935774		
Elevation Adjust. Factor	0.9999830459		
Combined Adjust. Factor	0.9999188210		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 HOPE 1 Ref Mon # 2 HOPE 2 Ref Mon # 3 HOPEPORT	

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum: GEOID18

Latitude 33 41 46.8240000

Longitude 93 36 2.3760000

Ellipsoid Height (M): 266.099 0.0000

Geoid Height (M): -88.511 0.0000

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND STATE HIGHWAY 29 (EXIT 31), LOCATED ON THE NORTH SIDE OF HOPE, GO NORTH ON STATE HIGHWAY 29 0.64 KM (0.40 MI) TO THE JUNCTION OF THE SOUTH ENTRANCE TO AHTD DISTRICT 3 ON THE RIGHT. TURN RIGHT, EAST ON A PAVED ROAD FOR 0.04 KM (0.02 MI) TO A PAVED ROAD LEFT. TURN LEFT, NORTH PASSING THROUGH A GATE IN A BRICK FENCE FOR 0.04 KM (0.02 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.59 METERS NORTH OF THE NORTH WALL OF THE RESIDENT ENGINEER BRICK BUIKLDING, 4.38 METERS SOUTH OF THE SOUTH EDGE OF A CONCRETE SIDEWALK 3.39 METERS EAST OF A BRICK FENCE AND FIBERGLASS WITNESS POST. THE STATION MARK IS A PUNCH HOLE ON TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH AN AHTD LOGO CAP STAMPED "AHTD HOPE1 1997". THE SHOT DISTANCE IS 248.939 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station HOPEPORT	Date Monumented 1/1/1990	Monumented By NGS	County HEMPSTEAD	Route 278	Job Number: NA
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	518,541.1701	
Easting (M)	246,593.2070	
Elevation (M)*	106.270	
Northing (SFT)	1,701,247.1556	
Easting (SFT)	809,031.2133	
Elevation (SFT)*	348.654	

Convergence Angle	0	55	35.3911854
Scale Factor	0.999933035		
Elevation Adjust. Factor	0.9999833230		
Combined Adjust. Factor	0.9999163592		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	THE RUNWAY CENTER	E-NE	53.60	175.9
MK # 2	THE TAXIWAY CENTER	SW	27.30	89.6
MK # 3	TAXIWAY LIGHT AT THE JUNCTION OF THE RUNWAY	E	32.40	106.3

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 43 27.3603900
Longitude	93 39 19.3473036
Ellipsoid Height (M):	70.270
Geoid Height (M):	-26.960

Location Description
<p>THE STATION IS LOCATED ABOUT 7 KM (4.35 MI) NORTHWEST OF HOPE, AT THE HOPE MUNICIPAL AIRPORT, ADJACENT TO THE NORTH END OF THE APRON, IN THE SOUTHEAST QUADRANT OF THE JUNCTION OF RUNWAY 16-34 AND THE CONNECTOR TAXIWAY FOR RUNWAY END 16. OWNERSHIP--CITY OF HOPE, CITY HALL, HOPE AR 71801. AIRPORT MANAGER IS DEAN MEDLEN, 153 AIRPORT ROAD, PHONE 501-777-3444 OR 777-8918. CALL IN ADVANCE FOR ACCESS THROUGH THE LOCKED GATE. TO REACH THE STATION FROM THE OVERPASS AT THE JUNCTION OF INTERSTATE HIGHWAY 30 AND STATE HIGHWAY 4 ON THE NORTHWEST SIDE OF HOPE, GO NORTHWEST ON HIGHWAY 4 FOR 6.3 KM (3.90 MI) TO A PAVED CROSSROAD. TURN LEFT, SOUTHWEST ON THE ENTRANCE ROAD FOR 0.18 KM (0.10 MI) TO THE T-JUNCTION OF A PAVED ROAD RIGHT AND A GRAVEL ROAD LEFT. TURN RIGHT, NORTH-NORTHWEST ON THE PAVED ROAD FOR 0.24 KM (0.15 MI) TO A GATE ON THE NORTHEAST SIDE OF A PARKING LOT AND HANGAR (AIRPORT OFFICE IS LOCATED IN THE SOUTHWEST CORNER OF THE HANGAR). CONTINUE AHEAD, NORTH-NORTHWEST, PASSING THROUGH THE GATE, THEN WEST-SOUTHWEST AROUND THE HANGAR FOR 0.08 KM (0.05 MI) TO THE APRON AND A CONNECTOR TAXIWAY ON THE RIGHT. TURN RIGHT, NORTHWEST ACROSS</p>

AZ Mark Station	PEPORT AZ MK (DL1593)
Geodetic Azimuth	167 07 09.0
Grid Azimuth	168 02 44.4

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station J 112	Date Monumented 1/1/1954	Monumented By CGS	County JEFFERSON	Route 11	Job Number: NA
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	566,528.5349	
Easting (M)	441,475.0940	
Elevation (M)*	54.865	
Northing (SFT)	1,858,685.7016	
Easting (SFT)	1,448,406.2042	
Elevation (SFT)*	180.003	

Convergence Angle	0	15	6.4152025
Scale Factor	0.999921148		
Elevation Adjust. Factor	0.9999913900		
Combined Adjust. Factor	0.9999125386		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	
MK # 2			0.00	0.0	
MK # 3			0.00	0.0	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 10 2.2328112
Longitude	91 33 0.5069052
Ellipsoid Height (M):	28.720
Geoid Height (M):	-26.070

Location Description
<p>THE STATION IS LOCATED ABOUT 24 KM (14.90 MI) SOUTHWEST OF DEWITT, 17 KM (10.55 MI) WEST-NORTHWEST OF GILLET, 1.8 KM (1.10 MI) NORTHEAST OF REYDELL, IN GRASS ADJACENT TO TWO CULTIVATED FIELDS AND IN THE HIGHWAY RIGHT-OF-WAY. OWNERSHIP--ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 88 WEST AND 11 EAST, AND A GRAVEL ROAD LEADING SOUTH IN THE SMALL TOWN OF REYDELL, GO NORTHEAST ON HIGHWAY 11 FOR 1.82 KM (1.15 MI) TO THE STATION ON THE RIGHT, NEAR THE START OF A CURVE IN THE HIGHWAY. THE STATION IS SET IN THE TOP OF A 30 CM ROUND CONCRETE POST PROJECTING 20 CM ABOVE THE GROUND. IT IS 14.7 M (48.2 FT) SOUTHEAST OF AND ABOUT 1.5 M (4.9 FT) LOWER THAN THE HIGHWAY CENTER, 0.4 M (1.3 FT) NORTHEAST OF A STEEL PIPE PROJECTING 1 M (3.3 FT) ABOVE GROUND AND 0.95 M (3.12 FT) WEST-NORTHWEST OF A UTILITY BRACE POLE AND A FIBERGLASS WITNESS POST.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station J 12	Date Monumented 1/1/1932	Monumented By CGS	County ASHLEY	Route 82	Job Number: NA
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	452,761.6330	
Easting (M)	395,656.0100	
Elevation (M)*	35.335	
Northing (SFT)	1,485,435.4576	
Easting (SFT)	1,298,081.4261	
Elevation (SFT)*	115.928	

Convergence Angle	0	1	33.8053629
Scale Factor	1.000038695		
Elevation Adjust. Factor	0.9999944548		
Combined Adjust. Factor	1.0000331496		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>THE STATION IS LOCATED ABOUT 5 KM (3.10 MI) WEST OF WEST CROSSETT, ALONG THE NORTH SIDE OF THE HIGHWAY, ABOUT 0.08 KM (0.05 MI) EAST OF A CURVE TO THE NORTH IN THE HIGHWAY AND IN THE HIGHWAY RIGHT-OF-WAY. OWNERSHIP--ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND STATE HIGHWAY 169 (HANCOCK ROAD) AT THE CITY LIMITS OF CROSSETT AND WEST CROSSETT, GO NORTHWEST, THEN WEST ON HIGHWAY 82 FOR 6.28 KM (3.90 MI) TO THE JUNCTION OF RAMSOUR ROAD ON THE LEFT AND THE STATION ON THE RIGHT. THE STATION IS SET IN THE TOP OF A 25 CM SQUARE CONCRETE POST PROJECTING 5 CM ABOVE GROUND. IT IS 41.8 M (137.1 FT) WEST OF THE CENTER OF A GRAVEL DRIVE TO A HOUSE, 14.8 M (48.6 FT) NORTH OF AND ABOUT LEVEL WITH THE HIGHWAY CENTER, 6.5 M (21.3 FT) WEST OF THE EXTENDED CENTER OF RAMSOUR ROAD, 4.0 M (13.1 FT) EAST-NORTHEAST OF A STEEL TELEPHONE CABLE JUNCTION BOX NUMBER 9A+B 47, 3.0 M (9.8 FT) EAST-NORTHEAST OF A POWER POLE WITH A STEEL JUNCTION BOX, 0.9 M (3.0 FT) WEST-NORTHWEST OF THE NORTH 1 OF 2 POWER POLES THAT ARE BRACED AT THE TOP AND 0.3 M (1.0 FT) NORTH OF A STEEL WITNESS POST.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station J 192 X	Date Monumented 1/1/1959	Monumented By AHTD	County CLARK	Route CR 9	Job Number: 070344
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	548,147.8241	
Easting (M)	298,556.3480	
Elevation (M)*	59.464	
Northing (SFT)	1,798,381.6529	
Easting (SFT)	979,513.6184	
Elevation (SFT)*	195.090	

Convergence Angle	0	36	52.6149569
Scale Factor	0.999918676		
Elevation Adjust. Factor	0.9999906683		
Combined Adjust. Factor	0.9999093451		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	185	21.09	69.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	
Ref Mon # 2 ARCM	
Ref Mon # 3 G 23, G23A	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 59 50.9420796
Longitude	93 5 53.2817124
Ellipsoid Height (M):	32.851
Geoid Height (M):	-26.612

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND STATE HIGHWAY 53, NORTH OF GURDON, GO NORTH ON 67 FOR 5.0 MILES TO CURTIS ROAD ON THE RIGHT, TURN RIGHT AND GO 1.0 MILES TO THE MARK ON THE LEFT, 28 FEET NORTH OF THE CENTERLINE OF CURTIS ROAD (CR 9), WEST 37 FEET FROM C/L HUDMAN ROAD, AND WEST 117.5 FROM C/L RAIL ROAD TRACKS. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "J 192 X 1959" SET IN THE TOP OF A 1.6 FOOT X 1.6 FOOT CONCRETE BASE OF AN OLD SIGN THAT PROJECTS ABOUT 2 FOOT ABOVE THE GROUND.</p>

AZ Mark Station	100020
Geodetic Azimuth	88 29 01
Grid Azimuth	89 05 53

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station J 26	Date Monumented 1/2/1932	Monumented By USC&GS	County BENTON	Route 62	Job Number: 090065,090096
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td>LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td>NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td>36 29 18.3181272</td> </tr> <tr> <td>Longitude</td> <td>93 55 59.5116696</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>446.499</td> </tr> <tr> <td>Geoid Height (M):</td> <td>-28.190</td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality	Elevation Datum:	NAVD 88	Geoid Datum:		Latitude	36 29 18.3181272	Longitude	93 55 59.5116696	Ellipsoid Height (M):	446.499	Geoid Height (M):	-28.190
Vertical Determined By:	LEVEL - Unkown Quality															
Elevation Datum:	NAVD 88															
Geoid Datum:																
Latitude	36 29 18.3181272															
Longitude	93 55 59.5116696															
Ellipsoid Height (M):	446.499															
Geoid Height (M):	-28.190															
Horizontal Datum NAD 83 (1997)																
Northing (M)	240,803.4161															
Easting (M)	226,777.5780															
Elevation (M)*	474.689															
Northing (SFT)	790,035.8743															
Easting (SFT)	744,019.4372															
Elevation (SFT)*	1,557.375															

Convergence Angle	-1	7	29.7337721
Scale Factor	1.000060393		
Elevation Adjust. Factor	0.9999255114		
Combined Adjust. Factor	0.9999858999		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62, STATE HIGHWAY 37 AND OLD HIGHWAY ROAD, LOCATED IN GATEWAY, GO SOUTH ON OLD HIGHWAY ROAD FOR 0.16 KM (0.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.3 METERS SOUTHEAST OF THE SOUTHEAST RAIL, 6.8 METERS NORTHWEST OF THE CENTER OF OLD HIGHWAY ROAD AND 0.9 METERS SOUTH OF A METAL USC&GS WITNESS POST. THE STATION MARK IS USC&GS BENCH MARK DISK STAMPED "J 26 1932 1556.837" SET IN TOP OF A SQUARE CONCRETE MONUMENT THAT PROJECTS 0.1 METERS ABOVE THE GROUND. THE SHOT DISTANCE IS 911.062 METERS.

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	NONE					J 26A
MK # 2	NONE					107 32 40.67289
MK # 3	NONE					108 40 10.62912

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CONWAY CORS ARP Ref Mon # 2 SALLISAW 1 CORS ARP Ref Mon # 3 NEODESHA CORS ARP	Elevation by NGS point J 26

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station J 26A	Date Monumented 9/28/1999	Monumented By AHTD	County BENTON	Route 62	Job Number: 090065,090096
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	240,511.7772	
Easting (M)	227,640.6960	
Elevation (M)*		
Northing (SFT)	789,079.0557	
Easting (SFT)	746,851.1835	
Elevation (SFT)*		

Convergence Angle	-1	7	9.4270709
Scale Factor	1.000059711		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 37, LOCATED IN GATEWAY, GO SOUTHEAST ON U.S. HIGHWAY 62 FOR 0.80 KM (0.50 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.50 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 62 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "J 26A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 911.062 METERS.</p>				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE JUNCTION BOX	121	23.55	77.3	AZ Mark Station J 26
MK # 2	NONE				Geodetic Azimuth 287 33 01.42431
MK # 3	NONE				Grid Azimuth 288 40 10.62912

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CONWAY CORS ARP	
Ref Mon # 2 SALLISAW 1 CORS ARP	
Ref Mon # 3 NEODESHA CORS ARP	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
NES TRI STATIC	1/1/1953	AHTD	LEE	1	110229

Zone	Zone Code	Vertical Determined By:
Arkansas North	301	LEVEL - Unkown Quality
Horizontal Datum	NAD 83 (1997)	
Northing (M)	42,794.7069	
Easting (M)	512,908.8320	
Elevation (M)*	69.881	
Northing (SFT)	140,402.3009	
Easting (SFT)	1,682,768.3930	
Elevation (SFT)*	229.268	

Convergence Angle	0	43	1.9216705
Scale Factor	1.000050697		
Elevation Adjust. Factor	0.9999890335		
Combined Adjust. Factor	1.0000397300		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	182	17.35	56.9
MK # 2	CORRIGATED METAL PIPE	160	12.60	41.3
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEVATION BY 3 WIRE
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station K 124	Date Monumented 1/1/1957	Monumented By CGS	County JEFFERSON	Route 425	Job Number: 020197
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	567,777.4040	
Easting (M)	405,719.8730	
Elevation (M)*	62.170	
Northing (SFT)	1,862,783.0330	
Easting (SFT)	1,331,099.2833	
Elevation (SFT)*	203.969	

Convergence Angle	0	2	5.0219889
Scale Factor	0.999921656		
Elevation Adjust. Factor	0.9999902436		
Combined Adjust. Factor	0.9999119004		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>THE STATION IS LOCATED ABOUT 6 KM (3.70 MI) SOUTHEAST OF PINE BLUFF, AT GRIDER FIELD AIRPORT, ALONG THE WEST EDGE OF THE AIRFIELD, ADJACENT TO THE AIRPORT OFFICE AND TERMINAL AND NEAR THE EAST SIDE OF THE PARKING LOT FOR THE OFFICE. OWNERSHIP--CITY OF PINE BLUFF, GRIDER FIELD, 709 HANGAR ROW, PINE BLUFF AR 71601. AIRPORT MANAGER IS MIKE WEST, PHONE 501-534-4131. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 65, 425 SOUTH AND 81 NORTH (ABOUT 9 KM (5.60 MI) SOUTHEAST OF PINE BLUFF, GO WEST-NORTHWEST ON HIGHWAY 65 FOR 2.82 KM (1.75 MI) TO A PAVED ROAD LEFT AT A CURVE IN THE HIGHWAY (COUNTY HIGHWAY 980/GRIDER FIELD ROAD). TURN LEFT, SOUTHERLY ON THE ROAD FOR 2.09 KM (1.30 MI) TO THE PAVED AIRPORT ENTRANCE ON THE LEFT (NORTH AIRPORT DRIVE). TURN LEFT, EAST ON THE ROAD FOR 0.32 KM (0.20 MI) TO A PAVED T-JUNCTION (HANGAR ROW). TURN RIGHT, SOUTH ON THE ROAD FOR 0.16 KM (0.10 MI) TO A PAVED PARKING LOT ON THE LEFT. TURN LEFT, EAST THROUGH THE PARKING LOT FOR 0.08 KM (0.05 MI) TO A GATE AT THE APRON, THE AIRPORT OFFICE ON THE RIGHT AND THE STATION ON THE LEFT. THE STATION IS SET FLUSH IN THE TOP OF THE WEST SIDE OF THE CONCRETE APRON WHICH HAS A 2 INCH</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station K 143	Date Monumented 2/23/1994	Monumented By AHTD	County MADISON	Route N/A	Job Number: R90018
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	165,250.2359	
Easting (M)	224,078.0250	
Elevation (M)*	699.901	
Northing (SFT)	542,158.4823	
Easting (SFT)	735,162.6537	
Elevation (SFT)*	2,296.259	

Convergence Angle	-1	7	57.9131300
Scale Factor	0.999943480		
Elevation Adjust. Factor	0.9998901748		
Combined Adjust. Factor	0.9998336610		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF TELEPHONE BOX	35	8.70	28.5
MK # 2	POWER POLE	58	6.15	20.2
MK # 3	NONE			

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>DENNIS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NELSON</td> </tr> <tr> <td>Ref Mon # 3</td> <td>BIEHL</td> </tr> </table>	Ref Mon # 1	DENNIS	Ref Mon # 2	NELSON	Ref Mon # 3	BIEHL	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Ref Mon # 1	DENNIS								
Ref Mon # 2	NELSON								
Ref Mon # 3	BIEHL								
Comments									

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 48 25.8260148
Longitude	93 56 47.9382036
Ellipsoid Height (M):	671.200
Geoid Height (M):	-28.701

Location Description
FROM THE JCT. OF HWY. 16 AND HWY. 295 IN THE VILLAGE OF CROSSES WHICH IS ABOUT 35.4 KM BY ROAD SOUTHEAST OF FAYETTEVILLE, GO SOUTH ON HWY. 295 FOR 8.85 KM (5.50 MILES) TO A "T" JCT. WITH CO. RD. NO. 1 ON THE LEFT AND CO. RD. NO. 126 ON THE RIGHT, GO LEFT (SOUTH) ON CO. RD. NO. 1 FOR 1.20 KM (0.75 MILES) TO A 90 DEGREE CURVE LEFT AND THE STATION ON THE RIGHT IN A EAST-WEST FENCE LINE. THE STATION IS 4.0 METERS NORTHWEST OF THE CENTER OF A DRIVEWAY, 2.30 METERS WEST OF THE CENTER OF CO. RD. NO. 1 AND 0.50 METERS EAST OF A METAL WITNESS POST AND 0.65 METERS WEST OF A CARSONITE WITNESS POST. THE STATION IS ON THE PROPERTY OF MR. LLOYD GABBARD. THE STATION MARK IS A STANDARD DISK STAMPED "K 143 1935" SET IN THE TOP OF A CONCRETE POST AND PROJECTS 0.30 METERS ABOVE THE GROUND SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station K 183	Date Monumented 10/19/2004	Monumented By NGS	County CRAIGHEAD	Route CR202	Job Number: 100611, 100412
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	160,889.4599	
Easting (M)	506,953.2620	
Elevation (M)*	76.684	
Northing (SFT)	527,851.5030	
Easting (SFT)	1,663,229.1604	
Elevation (SFT)*	251.587	

Convergence Angle	0	41	18.1911078
Scale Factor	0.999941619		
Elevation Adjust. Factor	0.9999879659		
Combined Adjust. Factor	0.9999295856		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE	110	2.20	7.2	
MK # 2	C/L RAILROAD	110	7.55	24.8	
MK # 3	SOUTHWEST CORNER SIGNAL BOX	28	30.20	99.1	

Area Reference Monuments (used for Processing) Ref Mon # 1 BUTLER Ref Mon # 2 MEM2 Ref Mon # 3 BLMM	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	1st Order by NGS
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 46 39.9107244
Longitude	90 49 1.2015444
Ellipsoid Height (M):	49.053
Geoid Height (M):	-27.631

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 226 SOUTH AND STATE HIGHWAY 49 SOUTH, WEST OF VALLEY VIEW, GO SOUTH ON HIGHWAY 49 1.7 MILES TO COUNTY ROAD 202 AND TURN RIGHT AND GO ACROSS THE RAILROAD TRACKS TO THE STATION ON THE LEFT, SOUTH OF THE CENTERLINE OF THE COUNTY ROAD 35.70 METERS AND EAST OF A WITNESS POST 0.30 METERS. THE STATION MARK IS A DISK SET IN THE TOP OF A CONCRETE MONUMENT.

AZ Mark Station	160026
Geodetic Azimuth	16 06 10
Grid Azimuth	15 24 52

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station K 206	Date Monumented 5/15/1905	Monumented By CGS	County WHITE	Route 36	Job Number: 50280
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	102,257.2176 0.0000
Easting (M)	413,113.0604 0.0000
Elevation (M)*	89.671 0.0000
Northing (SFT)	335,488.8881
Easting (SFT)	1,355,355.0990
Elevation (SFT)*	294.196

Convergence Angle	0 5 1.8659917
Scale Factor	0.999952352
Elevation Adjust. Factor	0.9999859279
Combined Adjust. Factor	0.9999382806

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, EAST OF SEARCY, GO EAST ON HIGHWAY 36 FOR 0.45 MILES TO THE MARK ON THE LEFT, 68.0 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 3 INCH BRASS CAP STAMPED "K 206 1962" SET IN THE TOP OF A 11 INCH SQUARE CONCRETE MONUMENT PROJECTING 5 INCHES ABOVE THE SURFACE OF THE GROUND.</p>				

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	N. END OF 24" CMP CULVERT		200	32.70	107.3
MK # 2	FENCE CORNER		3	14.20	46.6
MK # 3	CENTER OF CATTLE GUARD		72	26.00	85.3

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARLR	Lat Long & Elevation taken from NGS OPUS Projects
Ref Mon # 2	ARBT	
Ref Mon # 3	P777	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station K 289	Date Monumented	Monumented By NOAA	County JEFFERSON	Route 65	Job Number: R20091
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	564,955.7200	
Easting (M)	418,548.7010	
Elevation (M)*	58.889	

Northing (SFT)	1,853,525.5580	
Easting (SFT)	1,373,188.5299	
Elevation (SFT)*	193.205	

Convergence Angle	0	6	45.3061285
Scale Factor	0.999920630		
Elevation Adjust. Factor	0.9999907585		
Combined Adjust. Factor	0.9999113892		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

FROM THE POST OFFICE IN THE SMALL TOWN OF MOSCOW, GO NORTH ON HWY. 65 FOR 0.644 KM (0.40 MILES) TO THE STATION ON THE LEFT IN FRONT OF THE "LINWOOD BAPTIST CHURCH". THE STATION IS 24.8 METERS SOUTH OF THE CENTER OF HWY. 65, 29.6 METERS WEST OF THE EASTERN MOST DRIVEWAY TO THE CHURCH AND 1.60 METERS EAST OF THE EAST FACE OF A BRICK PLANTER SURROUNDING THE CHURCH SIGN. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN FLUSH WITH THE GROUND AND CAN BE REACHED THROUGH A 5" LOGO CAP.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS REGULATOR VALVE	30	7.20	23.6
MK # 2	NORTH EAST CORNER OF THE CHURCH	170	17.85	58.6
MK # 3	18" CONCRETE PIPE	305	20.40	66.9

AZ Mark Station	K 289 AZ 1995
Geodetic Azimuth	24 20 31.75680
Grid Azimuth	24 13 46.45573

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 TARRY 1940</p> <p>Ref Mon # 2 DIST2 1995</p> <p>Ref Mon # 3 NONE</p>	<p style="text-align: center; margin: 0;">Comments</p> <p>THIS STATION IS A NOAA BENCH MARK.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station K 289 AZ	Date Monumented 7/19/1995	Monumented By AHTD	County JEFFERSON	Route N/A	Job Number: R20091
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 565,285.0960		Latitude 34 9 24.2314992
Easting (M) 418,696.9320		Longitude 91 47 50.0265168
Elevation (M)* 60.026		Ellipsoid Height (M): 33.330
		Geoid Height (M): -26.696

Northing (SFT) 1,854,606.1858		
Easting (SFT) 1,373,674.8511		
Elevation (SFT)* 196.935		

Convergence Angle 0 6 48.5593602		
Scale Factor 0.999920739		
Elevation Adjust. Factor 0.9999905801		
Combined Adjust. Factor 0.9999113198		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

FROM THE POST OFFICE IN THE SMALL TOWN OF MOSCOW, GO NORTH ON HWY. 65 FOR 0.434 KM (0.27 MILES) TO A GRAVEL FIELD ROAD RIGHT AND HWY. 199 TO THE LEFT, GO RIGHT AND NORTH ON THE GRAVEL FIELD ROAD FOR 0.354 KM (0.22 MILES) TO THE STATION ON THE LEFT IN THE SOUTHEAST CORNER OF THE "CHERRY HILL CEMETERY". THE STATION IS 5.70 METERS WEST OF THE CENTER OF THE GRAVEL FIELD ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "K 289 AZ 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TARRY 1940	THE ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING STATION " K 289 1984".
Ref Mon # 2 DIST2 1995	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station K 324	Date Monumented 11/6/2008	Monumented By AHTD	County Greene	Route NA	Job Number: 100445
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	190,511.7689	
Easting (M)	530,116.8480	
Elevation (M)*	110.014	
Northing (SFT)	625,037.3618	
Easting (SFT)	1,739,225.0255	
Elevation (SFT)*	360.937	

Convergence Angle	0	50	24.9047573
Scale Factor	0.999967764		
Elevation Adjust. Factor	0.9999827356		
Combined Adjust. Factor	0.9999505001		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	14 inch pine tree	232	22.10	72.5
MK # 2	Power pole	22	87.50	287.1
MK # 3	Wooden "T" fence corner	318	35.51	116.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG, ARBT BLMM	Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS marks K 187, L 187, PARAGOULD BM, L 32, O 8 4, M 187, FIRST, FIRST AZ MK, Q 188.
Ref Mon # 2 280012,280012A	
Ref Mon # 3 280006,280006A	

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 2 30.9386472
Longitude	90 33 21.6681732
Ellipsoid Height (M):	81.952
Geoid Height (M):	-28.056

Location Description
<p>To reach the station from the junction of highways 49 and 358 on the south side of Paragould go north on hwy-49 for 0.50 miles to a red light and "Pruetts chapel road" on the right. Turn west on Pruetts Chaple road and go 2.0 miles to "South rocking chair road", continue ahead on Pruetts chapel road to the top of the grade and the station on the left in a hay field. 51.7 feet south of the center of Pruetts chapel road and 1.0 feet north of a carsonite witness post. The station mark is a stainless steel rod driven to a refusal depth of 42.5 feet and is encased in a 6 inch pvc pipe and accessed through a standard logo cap.</p>

AZ Mark Station	L 324
Geodetic Azimuth	283 38 43
Grid Azimuth	282 48 18

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station KENNPORT	Date Monumented 1/1/1989	Monumented By NGS	County MO / DUNKLIN	Route N/A	Job Number: NA
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	212,419.4210 0.0000
Easting (M)	576,633.0206 0.0000
Elevation (M)*	78.400

Northing (SFT)	696,912.7171
Easting (SFT)	1,891,836.8351
Elevation (SFT)*	257.217

Convergence Angle	1 8 36.2077932
Scale Factor	0.999999756
Elevation Adjust. Factor	0.9999876966
Combined Adjust. Factor	0.9999874526

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	36 13 55.4880000
Longitude	90 2 6.2520000
Ellipsoid Height (M):	163.789 0.0000
Geoid Height (M):	-93.461 0.0000

Location Description
<p>OWNERSHIP--CITY OF KENNETT, CITY HALL, KENNETT, MO. 63857. AIRPORT MANAGER JOHN MC LAIN, PHONE 573-888-1339 OR 573-888-2929. NOTE--THIS STATION IS THE PRIMARY AIRPORT CONTROL (PAC) STATION, AND IS A NEW MADRID FAULT SEISMIC ZONE STATION. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 25 AND 84 AND U.S. HIGHWAY 412 AT THE SOUTHEAST EDGE OF KENNETT, GO WEST, 0.32 KM (0.20 MI) ALONG HIGHWAYS 84 AND 412 (FIRST STREET) , TO FIRE STATION NO. 2 AND AIRPORT ROAD ON THE LEFT. TURN LEFT, SOUTH, 0.3 KM (0.20 MI) ALONG AIRPORT ROAD TO THE AIRPORT OFFICE AND PARKING AREA ON THE LEFT. TURN LEFT, EAST, PASSING THROUGH A GATE ONTO THE APRON. TURN RIGHT, SOUTH, 0.2 KM (0.10 MI) ACROSS APRON AND ALONG THE MAIN TAXIWAY CROSSING THE TURF RUNWAY TO THE STATION ON THE LEFT, IN LINE WITH THE TAXIWAY LIGHT AND WITNESS POST. THE STATION IS 48.5 M (159.1 FT) WEST OF THE RUNWAY CENTER, 12.65 M (41.50 FT) EAST OF THE MAIN TAXIWAY CENTER, 3.6 M (11.8 FT) EAST OF A SHORT WITNESS POST, 3.45 M (11.32 FT) EAST OF AND IN LINE WITH A TAXIWAY LIGHT, AND THE STATION IS ABOUT 0.1 M (0.3 FT) BELOW THE MAIN TAXIWAY LEVEL AND RECESSED ABOUT 5-CM BELOW THE GROUND SURFACE. BY R.G. HAYES. NOTE--THE DATUM POINT IS A</p>

AZ Mark Station	KNPORT AZ MK (GE1112)
Geodetic Azimuth	177 37 49.6
Grid Azimuth	177 21 20.3

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station L 18	Date Monumented 1/1/1932	Monumented By NGS	County BOONE	Route 7	Job Number: 090225
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	203,426.0800	
Easting (M)	299,032.8660	
Elevation (M)*	370.627	
Northing (SFT)	667,407.0641	
Easting (SFT)	981,076.9945	
Elevation (SFT)*	1,215.965	

Convergence Angle	0	39	10.7322799
Scale Factor	0.999986633		
Elevation Adjust. Factor	0.9999418399		
Combined Adjust. Factor	0.9999284737		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARP 2	
Ref Mon # 2 W.H. PHILLIPS	
Ref Mon # 3 ARHR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station L 28	Date Monumented 1/1/1932	Monumented By USC & GS	County CRAWFORD	Route N/A	Job Number: 040373,040748
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	126,074.9075 0.0010
Easting (M)	191,712.1679 0.0010
Elevation (M)*	139.454
Northing (SFT)	413,630.7590
Easting (SFT)	628,975.6709
Elevation (SFT)*	457.525

Convergence Angle	-1	20	6.7516050
Scale Factor	0.999938753		
Elevation Adjust. Factor	0.9999781156		
Combined Adjust. Factor	0.9999168699		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
DESCRIBED BY COAST & GEODETIC SURVEY 1932, ABOUT 3.9 MILES EAST ALONG THE MISSOURI PACIFIC RAILROAD FROM VAN BUREN, CRAWFORD COUNTY, AT BOX SPRINGS SIDING, ABOUT 6 POLES WEST OF MILEPOST 494, ABOUT 15 RAILS WEST OF A ROAD CROSSING, AND 40 FEET SOUTH OF THE TRACK. A STANDARD DISK, STAMPED 457.243 L 28 1932 AND SET IN THE TOP OF A CONCRETE POST. UPDATED TO REACH NOTES BY AHTD STATES A FASTER WAY TO REACH THE POINT DESCRIBED IS TO TURN SOUTH ON SHIBLEY ROAD OFF OF HWY. 64 AND TRAVEL SOUTH 0.5 MILES TO THE RAILROAD CROSSING OF MISSOURI PACIFIC RAILROAD. THE POINT IS SOUTHWEST OF THE CROSSING, SOUTH OF THE RAILROAD TRACK (40 FEET) IN A FIELD WITH A WITNESS POST.			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 ARHR Ref Mon # 3 OKHV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station L 298	Date Monumented 1/1/1985	Monumented By NOAA	County SEBASTIAN	Route 71	Job Number: 001747
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	104,884.3391	
Easting (M)	185,697.6820	
Elevation (M)*	151.318	
Northing (SFT)	344,108.0359	
Easting (SFT)	609,243.1450	
Elevation (SFT)*	496.449	

Convergence Angle	-1	22	13.8031694
Scale Factor	0.999952286		
Elevation Adjust. Factor	0.9999762538		
Combined Adjust. Factor	0.9999285410		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER POST	293	15.80	51.9
MK # 2	SOUTHEAST END OF A 0.67 METER CMP	312	27.44	90.0
MK # 3	SOUTHWEST END OF A 0.67 METER RCP	328	19.18	62.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 FS 2	THE STATION IS A NGS BENCH MARK WITH A PUNCH MARK ON TOP OF A 5/8 INCH STAINLESS STEEL ROD. MONUMENTED BY NATIONAL GEODETIC SURVEY IN 1985, VERT DATUM 88, VERT ORDER FIRST ELEV. =151.318 METERS
Ref Mon # 2 Q 299	
Ref Mon # 3 GAYLOR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station L 314	Date Monumented 1/2/1990	Monumented By NOAA	County POINSETT	Route 63	Job Number: 001849
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	130,637.9098	
Easting (M)	546,878.1292	
Elevation (M)*	66.504	
Northing (SFT)	428,601.2091	
Easting (SFT)	1,794,215.9956	
Elevation (SFT)*	218.189	

Convergence Angle	0	56	31.6123621
Scale Factor	0.999937011		
Elevation Adjust. Factor	0.9999895635		
Combined Adjust. Factor	0.9999265751		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 63 AND STATE HIGHWAY 118, LOCATED IN TYRONZA, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 2.82 KM (1.75 MI) TO THE STATION ON LEFT SET IN THE MEDIAN. THE STATION IS 12.2 METERS SOUTHEAST OF THE CENTER OF A PAVED CROSSOVER, 9.70 METERS NORTHEAST OF THE CENTER OF THE NORTHBOUND LANE OF U.S. HIGHWAY 63 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION IS A STAINLESS STEEL ROD WITH A PUNCH MARK IN TOP OF THE ROD WITH ACCESS THROUGH A 0.127 METERS LOGO CAP STAMPED "L 314 1990". THE SHOT DISTANCE IS 625.073 METERS.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station L 315A
MK # 2	NONE				Geodetic Azimuth 138 52 32.54013
MK # 3	NONE				Grid Azimuth 137 56 00.91785

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 W 15 OFFSET Ref Mon # 2 MANIPORT Ref Mon # 3 MEM2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station L 314A	Date Monumented 10/2/2000	Monumented By AHTD	County POINSETT	Route 63	Job Number: 001849
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Zone	Zone Code	Vertical Determined By:
Arkansas North	301	LEVEL - Unkown Quality
Horizontal Datum	NAD 83 (1997)	
Northing (M)	130,173.9054	
Easting (M)	547,296.8957	
Elevation (M)*	65.991	
Northing (SFT)	427,078.8880	
Easting (SFT)	1,795,589.8986	
Elevation (SFT)*	216.505	

Convergence Angle	0	56	41.1038354
Scale Factor	0.999937122		
Elevation Adjust. Factor	0.9999896440		
Combined Adjust. Factor	0.9999267666		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 63 AND STATE HIGHWAY 118, LOCATED IN TYRONZA, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 2.17 KM (1.35 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 29.50 METERS NORTHWEST OF A PAVED CROSSOVER, 13.65 METERS NORTHEAST OF THE CENTER OF SOUTHBOUND LANE OF U.S. HIGHWAY 63, 12.50 METERS SOUTHWEST OF THE CENTER OF NORTHBOUND LANE OF U.S. HIGHWAY 63 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "L 314A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5202 FROM NGS BENCH MARK L 314. THE SHOT DISTANCE IS 625.073 METERS.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 W 15 OFFSET	
Ref Mon # 2 MANIPORT	
Ref Mon # 3 MEM2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station L 324	Date Monumented 11/5/2008	Monumented By AHTD	County Greene	Route NA	Job Number: 100445
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	190,627.7210	
Easting (M)	529,606.6850	
Elevation (M)*	116.217	
Northing (SFT)	625,417.7813	
Easting (SFT)	1,737,551.2657	
Elevation (SFT)*	381.289	

Convergence Angle	0	50	13.0857547
Scale Factor	0.999967919		
Elevation Adjust. Factor	0.9999817621		
Combined Adjust. Factor	0.9999496817		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	344	4.88	16.0
MK # 2	Power pole	281	15.09	49.5
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG, ARBT BLMM Ref Mon # 2 280012,280012A Ref Mon # 3 280006,280006A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS marks K 187, L 187, PARAGOULD BM, L 32, O 8 4, M 187, FIRST, FIRST AZ MK, Q 188.</td> </tr> </table>	Comments	Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS marks K 187, L 187, PARAGOULD BM, L 32, O 8 4, M 187, FIRST, FIRST AZ MK, Q 188.
Comments			
Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS marks K 187, L 187, PARAGOULD BM, L 32, O 8 4, M 187, FIRST, FIRST AZ MK, Q 188.			

Location Description	
To reach the station from the junction of highways 412 and 49Y in Paragould go west on hwy-412 2.0 miles to "Walcottroad" on the left. Turn left and southwest on Walcott road and go 0.90 miles to a junction with "Spring Grove road", continue straight ahead on Spring Grove road for 0.90 miles to the station on the left, 25.0 feet east of the center of the road and 1.0 feet west of a carsonite witness post. The station mark is a brass cap stamped "L 324 2009" set in the top of a 12 inch round concrete post and is flush with the ground.	

AZ Mark Station	K 324
Geodetic Azimuth	103 38 31
Grid Azimuth	102 48 18

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station LA 1	Date Monumented 2/26/1998	Monumented By AHTD	County ASHLEY	Route LA 14	Job Number: 020240
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	437,613.9479	
Easting (M)	406,331.3600	
Elevation (M)*	33.564	
Northing (SFT)	1,435,738.4274	
Easting (SFT)	1,333,105.4703	
Elevation (SFT)*	110.118	

Convergence Angle	0	2	16.5047161
Scale Factor	1.000078245		
Elevation Adjust. Factor	0.9999947327		
Combined Adjust. Factor	1.0000729773		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	89	32.61	107.0
MK # 2	NORTH END OF WEST HEADWALL	145	24.08	79.0
MK # 3	LIGHT POLE	178	32.84	107.7

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>LISA</td> </tr> <tr> <td>Ref Mon # 2</td> <td>STELL</td> </tr> <tr> <td>Ref Mon # 3</td> <td>G 65 OFFSET,A 200 OFFSET</td> </tr> </table>	Ref Mon # 1	LISA	Ref Mon # 2	STELL	Ref Mon # 3	G 65 OFFSET,A 200 OFFSET	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	LISA							
Ref Mon # 2	STELL							
Ref Mon # 3	G 65 OFFSET,A 200 OFFSET							
Comments								

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 0 20.7600912
Longitude	91 55 56.1068652
Ellipsoid Height (M):	7.727
Geoid Height (M):	-25.875

Location Description
THE STATION IS LOCATED IN MOREHOUSE PARISH, LOUISIANA. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 133T, LOCATED ON THE SOUTH SIDE OF CROSSETT, GO SOUTH ON STATE HIGHWAY 133 FOR 13.04 KM (8.10 MI) TO THE LOUISIANA STATE LINE, CONTINUE SOUTH ON LOUISIANA STATE HIGHWAY 142 FOR 0.22 KM (0.14 MI) TO THE STATION ON THE RIGHT. THE STATION IS 34.109 METERS NORTH OF A GRAVEL DRIVE, 13.616 METERS WEST OF THE CENTER OF LOUISIANA STATE HIGHWAY 142 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "LA 1 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

AZ Mark Station	LA 1A
Geodetic Azimuth	159 10 36.05872
Grid Azimuth	159 08 19.50423

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station LA 1A	Date Monumented 2/26/1998	Monumented By AHTD	County ASHLEY	Route LA 14	Job Number: 020240
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Zone Arkansas South	Zone Code 302	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 437,160.5259		Latitude 33 0 6.0392556
Easting (M) 406,504.1540		Longitude 91 55 49.4624676
Elevation (M)* 33.280		Ellipsoid Height (M): 7.440
Northing (SFT) 1,434,250.8254		Geoid Height (M): -25.874
Easting (SFT) 1,333,672.3786		
Elevation (SFT)* 109.186		

Convergence Angle 0 2 20.2235236	Location Description
Scale Factor 1.000079516	<p>THE STATION IS LOCATED IN MOREHOUSE PARISH, LOUISIANA. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 133T, LOCATED ON THE SOUTH SIDE OF CROSSETT, GO SOUTH ON STATE HIGHWAY 133 FOR 13.04 KM (8.10 MI) TO THE LOUISIANA STATE LINE, CONTINUE SOUTH ON LOUISIANA STATE HIGHWAY 142 FOR 0.70 KM (0.43 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.95 METERS EAST OF THE CENTER OF LOUISIANA STATE HIGHWAY 142 AND 0.55 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "LA 1A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 0.9999947773	
Combined Adjust. Factor 1.0000742929	

SUPERCEDED CONTROL				
Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	0.60 METER PINE TREE	336	20.20	66.3	LA 1
MK # 2	POWER POLE	145	14.90	48.9	339 10 39.67788
MK # 3					339 08 19.50423

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 LISA Ref Mon # 2 STELL Ref Mon # 3 G 65 OFFSET,A 200 OFFSET	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station LA GPS 8	Date Monumented 1/30/2002	Monumented By LaDOTD	County MILLER	Route 71	Job Number: R30079
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	439,521.3544	
Easting (M)	221,964.1135	
Elevation (M)*		
Northing (SFT)	1,441,996.3102	
Easting (SFT)	728,227.2624	
Elevation (SFT)*		

Convergence Angle	-1	3	58.7931338
Scale Factor	1.000077540		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach the point from the junction of U.S. Highway 71 and State Highway 168 in Ida, go west for 0.4 mi on highway 168 to the junction with Ida State Line Rd, continue west for 0.3 mi on Ida State Line Rd to the point on the left. The point is a _ inch iron pin driven into the ground. It is 55.5 ft northwest from a power pole # 175772 with transformer attached, 43.5 ft west-southwest from a telephone junction box # 7200-4 on the north side of the road and 19.5 ft southwest from the center of the road.</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					LA GPS 9
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEW BOSTON; LA GPS 8 & 9	CADD O PARISH, LA. CONVERTED FROM LA NORTH ZONE 1701
Ref Mon # 2 AHTD HOPE	
Ref Mon # 3 AHTD TEXARKANA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station LA GPS 9	Date Monumented 1/30/2002	Monumented By LaDOTD	County MILLER	Route 71	Job Number: R30079
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	439,655.9184	
Easting (M)	221,793.6932	
Elevation (M)*		
Northing (SFT)	1,442,437.7923	
Easting (SFT)	727,668.1418	
Elevation (SFT)*		

Convergence Angle	-1	4	2.5209155
Scale Factor	1.000077173		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach the point from the junction of U.S. Highway 71 and State Highway 168 in Ida, go west for 0.4 mi on highway 168 to the junction with Ida State Line RD, continue west for 0.4 mi on Ida State Line Rd to the point on the left, just west of a red brick house on the north side of the road. The point is a _ inch iron pin driven into the ground. It is 59 ft south from a 24-inch blackjack tree, 37.5 ft west from a telephone junction box #7200-5, 14.5 ft southwest from the center of the road and 7.5 ft north-northeast from a buried cable warning sign.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station LA GPS 8
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 NEW BOSTON; LA GPS 8 & 9 Ref Mon # 2 AHTD HOPE Ref Mon # 3 AHTD TEXARKANA	CADDO PARISH, LA. CONVERTED FROM LA NORTH ZONE 1701

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station LAKE	Date Monumented 1/1/1986	Monumented By NGS	County CHICOT	Route 65	Job Number: NA
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	474,974.7521	
Easting (M)	463,589.1530	
Elevation (M)*	37.620	
Northing (SFT)	1,558,312.9992	
Easting (SFT)	1,520,958.7461	
Elevation (SFT)*	123.425	

Convergence Angle	0	22	56.3428284
Scale Factor	0.999991224		
Elevation Adjust. Factor	0.9999940962		
Combined Adjust. Factor	0.9999853203		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 20 26.6149716
Longitude	91 19 0.8866704
Ellipsoid Height (M):	11.470
Geoid Height (M):	-26.100

Location Description
<p>THE STATION IS LOCATED ABOUT 22 KM (13.65 MI) SOUTHEAST OF DERMOTT, 2 KM (1.25 MI) NORTHWEST OF LAKE VILLAGE, AT THE LAKE VILLAGE MUNICIPAL AIRPORT, NEAR THE SOUTHWEST END OF THE AIRFIELD, IN THE GRASSY AREA OF THE CIRCULAR TURNAROUND FOR RUNWAY END 1. OWNERSHIP--CITY OF LAKE VILLAGE. AIRPORT MANAGER IS MIKE DAVIS, CHISAIR INC., PO BOX 162, LAKE VILLAGE AR 71653, PHONE 501-265-2723 OR 265-5566. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 82 AND 65, AND STATE HIGHWAY 144 ON THE NORTHWEST SIDE OF LAKE VILLAGE, GO NORTH ON HIGHWAY 65 FOR 0.87 KM (0.55 MI) TO COUNTY HIGHWAY 980 (AIRPORT ROAD) ON THE LEFT. TURN LEFT, WEST ON THE PAVED ROAD FOR 2.36 KM (1.45 MI) TO A PAVED ROAD RIGHT (HANGAR ROAD). TURN RIGHT, NORTH ON THE ROAD FOR 0.62 KM (0.40 MI) TO A HANGAR AND AN APRON ON THE LEFT. TURN LEFT, NORTHWEST ACROSS THE APRON AND THEN WEST ALONG A CONNECTOR TAXIWAY FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF THE RUNWAY. TURN LEFT, SOUTH ALONG THE RUNWAY FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT. THE STATION IS SET IN THE TOP OF A 30 CM ROUND CONCRETE POST RECESSED 3 CM BELOW THE GROUND. IT IS 46.1 M (151.2 FT) SOUTHEAST OF THE FIRST</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ND SURVEY BA	1/1/1993	MoDOT	MO / PHELPS	N/A	NA

Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	400,918.4497	0.0000			
Easting (M)	418,592.6154	0.0000			
Elevation (M)*	344.128	0.0000			
Northing (SFT)	1,315,346.6137				
Easting (SFT)	1,373,332.6057				
Elevation (SFT)*	1,129.027				

Convergence Angle	0	7	22.7647189
Scale Factor	1.000790526		
Elevation Adjust. Factor	0.9999459980		
Combined Adjust. Factor	1.0007364813		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>THE STATION IS LOCATED IN ROLLA, MO. AT THE DEPARTMENT OF NATURAL RESOURCES, INSIDE THE LAND SURVEY BUILDING, IN A HALLWAY UNDER A SKYLIGHT, IN FRONT OF THE LADIES REST ROOM, OWNERSHIP--STATE OF MISSOURI, DEPARTMENT OF NATURAL RESOURCES, LAND SURVEY PROGRAM, P.O. BOX 250, ROLLA, MO. 65402. PHONE 573-368-2300. NOTE--CONTACT MR. MIKE FLOWERS (24-HOURS IN ADVANCE) . TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAY 44 (EXIT 184) AND STATE HIGHWAY 72 (KINGS HIGHWAY) ON THE WEST SIDE OF ROLLA, GO EAST, 0.48 KM (0.30 MI) ALONG HIGHWAY 72 TO THE INTERSECTION OF FAIRGROUNDS ROAD. TURN LEFT, NORTH, 0.2 KM (0.10 MI) ALONG THE ROAD TO GALE DRIVE ON THE LEFT. TURN LEFT, WEST, 0.2 KM (0.10 MI) ALONG GALE DRIVE TO THE LAND SURVEY BUILDING AND THE STATION INSIDE THE BUILDING. THE STATION IS 9.9 M (32.5 FT) EAST OF THE MAIN ENTRANCE OF THE BUILDING, 1.4 M (4.6 FT) WEST OF THE DOOR AT THE END OF THE HALL (ALSO DOORS LEADING DOWN RAMP TO MICROFILMING AND INDEXING SECTION) . BY R.G. HAYES.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ONARD NCMN 7	1/1/1985	NGS	OK / TULSA	N/A	NA

Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	174,830.4133	0.0000			
Easting (M)	419,077.9331	0.0000			
Elevation (M)*	256.609				

Northing (SFT)	573,589.4476				
Easting (SFT)	1,374,924.8522				
Elevation (SFT)*	841.891				

Convergence Angle	0	7	22.7647189
Scale Factor	0.999951953		
Elevation Adjust. Factor	0.9999597313		
Combined Adjust. Factor	0.9999116862		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description
<p>0.1 KM (0.05 MI) WESTERLY ALONG U.S. HIGHWAY 64 FROM THE POST OFFICE IN LEONARD, THENCE 1.8 KM (1.10 MI) SOUTHERLY ALONG SOUTH 157TH AVENUE EAST AND THEN BIXHOMA LAKE ROAD, THENCE 0.2 KM (0.10 MI) EASTERLY ALONG A PAVED ROAD, THENCE 0.1 KM (0.05 MI) NORTHERLY ALONG THE OKLAHOMA GEOLOGICAL SURVEY COMPLEX ENTRANCE ROAD, 22.8 M (74.8 FT) NORTHWEST OF THE ROAD CENTER AT A CURVE, 20.5 M (67.3 FT) NORTH OF A UTILITY POLE, 15.3 M (50.2 FT) NORTH OF REFERENCE MARK 3, 15.3 M (50.2 FT) SOUTH OF REFERENCE MARK 1, 15.3 M (50.2 FT) EAST OF REFERENCE MARK 2, AND NEAR THE CENTER OF 4 WITNESS POSTS. NOTE--THE DISK IS SET IN CONCRETE IN A DEPRESSION IN BEDROCK AND IS 0.1 M (0.3 FT) BELOW THE GROUND SURFACE. TO GAIN ACCESS TO THE COMPLEX, USE PHONE AT GATE. TELEPHONE NUMBER (918) 366-6468. STATION HAS A 30 DEGREE HIGH HORIZON BLOCKAGE TO THE NORTHWEST. SITUATION WILL WORSEN AS SMALL CLEARING CLOSES IN AND TREES GROW.</p>

Location Reference Marks

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station LISA	Date Monumented 1/1/1986	Monumented By LaDOT	County A / MOREHOUS	Route N/A	Job Number: NA
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	410,028.4191 0.0000
Easting (M)	411,139.0897 0.0000
Elevation (M)*	50.152
Northing (SFT)	1,345,234.9050
Easting (SFT)	1,348,878.8301
Elevation (SFT)*	164.540

Convergence Angle	0 3 59.4692573
Scale Factor	1.000164631
Elevation Adjust. Factor	0.9999921296
Combined Adjust. Factor	1.0001567593

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>THE STATION IS LOCATED ABOUT 15.0 MI (24.1 KM) NORTH OF MONROE, 2.5 MI (4.0 KM) WEST OF MER ROUGE AND 2.0 MI (3.2 KM) EAST OF BASTROP. OWNERSHIP--CITY OF BASTROP, FOR ENTRANCE INTO THE AIRPORT CONTACT MR. JOHN BOLTON, AIRPORT MANAGER, PHONE 318-281-0544. TO REACH THE STATION FROM THE COURTHOUSE IN BASTROP, GO EAST FOR 2.1 MI (3.4 KM) ON STATE HIGHWAY 2 TO THE JUNCTION WITH A PARISH ROAD NUMBER 4437 (MARLATT ROAD). TURN RIGHT AND GO SOUTH FOR 1.4 MI (2.3 KM) ON THE PARISH ROAD TO A ROAD ON THE LEFT WHICH IS THE ENTRANCE INTO THE AIRPORT, AND THE STATION, NEAR THE JUNCTION OF THE RUNWAY AND A RAMP LEADING FROM THE APRON TO THE TAXIWAY AND RUNWAY. THE STATION IS 400.0 FT (121.9 M) EAST FROM THE SOUTHEAST CORNER OF A YELLOW ALUMINUM HANGAR, 143.5 FT (43.7 M) SOUTHEAST FROM A WIND TEE, 76.5 FT (23.3 M) WEST FROM THE CENTER OF THE RUNWAY, 63.5 FT (19.4 M) NORTH FROM THE CENTER OF THE RAMP LEADING TO THE APRON, 14.4 FT (4.4 M) SOUTH-SOUTHWEST OF THE WESTERNMOST ONE OF THREE TAXIWAY LIGHTS, 2.0 FT (0.6 M) EAST-NORTHEAST FROM A FIBERGLASS WITNESS POST, RECESSED 2 CM BELOW GROUND AND ABOUT LEVEL WITH THE RUNWAY.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station M 21	Date Monumented 1/1/1932	Monumented By NGS	County POLK	Route 88	Job Number: 040352,040444
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	614,845.2559	
Easting (M)	194,533.0300	
Elevation (M)*	358.917	
Northing (SFT)	2,017,204.8104	
Easting (SFT)	638,230.4493	
Elevation (SFT)*	1,177.547	

Convergence Angle	-1	15	12.7817198
Scale Factor	0.999964270		
Elevation Adjust. Factor	0.9999436774		
Combined Adjust. Factor	0.9999079494		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>STATION IS LOCATED ABOUT 11.1 KM (6.9 MI) WEST OF INK, 9.6 KM (6.0 MI) NORTHEAST OF POTTER, AND 0.3 KM (0.2 MI) NORTHWEST OF CENTER OF MENA. IN THE CENTER OF THE TRAFFIC CIRCLE OF JANSSEN PARK. TO REACH FROM THE JUNCTION OF U.S.HIGHWAYS 59, 71 AND STATE HIGHWAY 88 IN THE CENTER OF MENA. GO NORTHWEST ON STATE HIGHWAY 88 FOR 0.28 KM (0.17 MI) TO A CROSS STREET AT THE CITY HALL. TURN LEFT AND GO SOUTHWEST ON MAPLE AVENUE FOR 0.31 KM (0.19 MI) TO WHERE MAPLE AVENUE DEAD ENDS AT THE TRAFFIC CIRCLE IN JANSSEN PARK. AND THE STATION STRAIGHT AHEAD IN THE CENTER OF THE TRAFFIC CIRCLE. STATION IS A STANDARD CGS BENCH MARK DISK STAMPED---M 21 1932 1177.215---. SET IN THE TOP OF A 30-CM SQUARE CONCRETE POST THAT PROJECTS 24-CM ABOVE THE GROUND. IT IS 23.9 M (78.4 FT) SOUTHEAST OF THE SOUTHEAST CORNER OF A CABIN WITH SIGN BUILT IN 1851, 12.5 M (41.0 FT) SOUTHWEST OF A FLAGPOLE, 6.6 M (21.7 FT) SOUTHWEST OF THE SOUTHWEST CORNER OF THE BASE OF A CLOCK, AND 1.0 M (3.3 FT) WEST-NORTHWEST OF THE NORTHEAST CORNER OF THE CONCRETE BASE AROUND A FLOWER BED. DESCRIBED BY E.J.HANSMANN.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station M 289	Date Monumented 1/1/1984	Monumented By NOAA	County LINCOLN	Route 65	Job Number: 20137
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	552,390.5750	
Easting (M)	435,297.2500	
Elevation (M)*	54.414	
Northing (SFT)	1,812,301.4115	
Easting (SFT)	1,428,137.7277	
Elevation (SFT)*	178.523	

Convergence Angle	0	12	50.2494105
Scale Factor	0.999918474		
Elevation Adjust. Factor	0.9999914607		
Combined Adjust. Factor	0.9999099354		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF HEADWALL	174	11.60	38.1
MK # 2	SOUTHWEST CORNER OF BRICK SIGN	249	5.10	16.7
MK # 3	NORTHEAST CORNER OF BRICK SIGN	8	3.70	12.1

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>AHTD MON 1</td> </tr> <tr> <td>Ref Mon # 2</td> <td>J 112</td> </tr> <tr> <td>Ref Mon # 3</td> <td>K 124</td> </tr> </table>	Ref Mon # 1	AHTD MON 1	Ref Mon # 2	J 112	Ref Mon # 3	K 124	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	AHTD MON 1							
Ref Mon # 2	J 112							
Ref Mon # 3	K 124							
Comments								

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 34 2 24.1730340

Longitude 91 37 3.7944840

Ellipsoid Height (M): 28.514

Geoid Height (M): -25.900

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN GRADY, GO SOUTHEAST ON U.S. HIGHWAY 65 FOR 8.80 KM (5.45 MI) TO THE JUNCTION OF STATE HIGHWAY 388 AND THE STATION ON THE RIGHT SET IN FRONT OF A DEPARTMENT OF CORRECTIONS SIGN. THE STATION IS 25. 6 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65, 17.9 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 388, 1.6 METERS SOUTHEAST OF THE SOUTHEAST FACE OF BRICK PLANTER AND 2.6 METERS NORTHEAST OF A GROUND FLOODLIGHT. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN IN THE GROUND AND CAN BE REACHED THROUGH A 0.13 METER LOGO CAP STAMPED "M 289 1984" SET FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station M 289A	Date Monumented 12/8/1998	Monumented By AHTD	County LINCOLN	Route 65	Job Number: 20137
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	551,948.6300	
Easting (M)	435,769.2440	
Elevation (M)*	53.209	
Northing (SFT)	1,810,851.4636	
Easting (SFT)	1,429,686.2614	
Elevation (SFT)*	174.570	

Convergence Angle	0	13	0.5125773
Scale Factor	0.999918470		
Elevation Adjust. Factor	0.9999916498		
Combined Adjust. Factor	0.9999101205		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	AHTD MON 1
Ref Mon # 2	J 112
Ref Mon # 3	K 124

Comments

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 2 9.7710864
Longitude	91 36 45.4572720
Ellipsoid Height (M):	27.282
Geoid Height (M):	-25.901

Location Description
<p>TO REACH THE STATION FROM THE POST OFFICE IN GRADY, GO SOUTHEAST ON U.S. HIGHWAY 65 FOR 9.45 KM (5.87 MI) TO THE STATION ON THE RIGHT. THE STATION IS 30.81 METERS NORTH-NORTHEAST OF THE NORTHEAST RAIL, 20.22 METERS SOUTH-SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS NORTH-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "M 289A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station M 314	Date Monumented 1/2/1990	Monumented By NOAA	County POINSETT	Route 63	Job Number: 001849
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	133,645.2539	
Easting (M)	543,861.3448	
Elevation (M)*	66.419	
Northing (SFT)	438,467.8038	
Easting (SFT)	1,784,318.4287	
Elevation (SFT)*	217.910	

Convergence Angle	0	55	23.0816449
Scale Factor	0.999936423		
Elevation Adjust. Factor	0.9999895768		
Combined Adjust. Factor	0.9999260005		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	313	2.30	7.5
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 W 15 OFFSET	
Ref Mon # 2 MANIPORT	
Ref Mon # 3 MEM2	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 31 39.1263996
Longitude	90 24 49.2479388
Ellipsoid Height (M):	38.824
Geoid Height (M):	-27.595

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63B, STATE HIGHWAY 308 AND STATE HIGHWAY 149 SOUTH, LOCATED IN MARKED TREE, GO SOUTHWEST ON U.S. HIGHWAY 63B FOR 0.51 IM (0.32 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.50 METERS SOUTHWEST OF THE NEAR RAIL, 12.20 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 63B (FRISCO STREET), 1.60 METERS SOUTHWEST OF THE EXTENDED CENTER OF 6TH STREET, 0.50 METERS SOUTHWEST OF AN AHTD WITNESS POST AND 0.30 METERS NORTHWEST OF A FIBERGLASS WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD WITH A PUNCH MARK ON TOP OF THE ROD WITHN ACCESS THROUGH A 0.127 METERS LOGO CAP STAMPED "M 314 1990". THE SHOT DISTANCE IS 506.571 METERS.</p>

AZ Mark Station	M 314A
Geodetic Azimuth	132 55 48.93656
Grid Azimuth	132 00 25.84888

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station M 314A	Date Monumented 10/2/2000	Monumented By AHTD	County POINSETT	Route 63	Job Number: 001849
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 133,306.2722		Latitude 35 31 27.9311880
Easting (M) 544,237.7272		Longitude 90 24 34.5269052
Elevation (M)* 65.114		Ellipsoid Height (M): 37.513
		Geoid Height (M): -27.593

Northing (SFT) 437,355.6614	Easting (SFT) 1,785,553.2767	Location Description
Elevation (SFT)* 213.628		<p>THE STATION IS SET AT THE JUNCTION OF U.S. HIGHWAY 63B, STATE HIGHWAY 308 AND STATE HIGHWAY 149 SOUTH IN MARKED TREE. THE STATION IS 26.90 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 63B, 19.10 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 149 SOUTH AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "M 314A 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK M 314. THE SHOT DISTANCE IS 506.571.</p>
Convergence Angle 0 55 31.6478015		
Scale Factor 0.999936478		
Elevation Adjust. Factor 0.9999897816		
Combined Adjust. Factor 0.9999262602		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	TELEPHONE JUNCTION BOX	51	4.40	14.4	AZ Mark Station M 314
MK # 2	NORTHEAST CORNER OF CHURCH OF CHRI	252	36.70	120.4	Geodetic Azimuth 312 55 57.49054
MK # 3	NONE				Grid Azimuth 312 00 25.84888

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 W 15 OFFSET</p> <p>Ref Mon # 2 MANIPORT</p> <p>Ref Mon # 3 MEM2</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station M 319	Date Monumented 10/9/2006	Monumented By AHTD	County Drew	Route 278	Job Number: 01873,020462,020470,C2200
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	507,341.3182	
Easting (M)	410,098.2600	
Elevation (M)*	63.746	
Northing (SFT)	1,664,502.3081	
Easting (SFT)	1,345,464.0414	
Elevation (SFT)*	209.140	

Convergence Angle	0	3	39.3178457
Scale Factor	0.999942687		
Elevation Adjust. Factor	0.9999899963		
Combined Adjust. Factor	0.9999326839		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach the station from the junction of highways 278 and 425 in Monticello go west on hwy-278 for 5.30 miles to a paved road on the right, turn right on the paved road and go north to a curve in the road and the station near the fence corner. 222.0 feet north of the center of hwy-278, 45.40 feet north of the center of the paved road . The station mark is a 3D NGS stainless steel rod 46.50 feet long and driven to refusal under a logo cap stamped "M 319 2006" and anchored in concrete.</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Right of way fence corner		3.23	10.6	220032
MK # 2					258 27 29
MK # 3					258 23 50

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Warrport, Warrport Az.	3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.
Ref Mon # 2 ARCM,ARLR, UAM AFRC SIS	
Ref Mon # 3 W 77, T 83, 220013, 220001A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station M 333	Date Monumented 1/4/2012	Monumented By AHTD	County BOONE	Route N/A	Job Number: R90095 090555
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	204,531.4595 0.0030
Easting (M)	308,651.6132 0.0030
Elevation (M)*	384.542
Northing (SFT)	671,033.6300
Easting (SFT)	1,012,634.5010
Elevation (SFT)*	1,261.618

Convergence Angle	0 35 27.0692296
Scale Factor	0.999988567
Elevation Adjust. Factor	0.9999396565
Combined Adjust. Factor	0.9999282242

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	2nd Order - NGS
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	36 10 21.4751820
Longitude	93 0 55.3916772
Ellipsoid Height (M):	356.269 0.0001
Geoid Height (M):	-28.273 0.0001

Location Description
<p>TO REACH FROM THE INTERSECTION OF HIGHWAY 65 AND HIGHWAY 123, GO NORTH ALONG HIGHWAY 65 FOR 6.7 MI (10.8 KM) TO AN ASPHALT ROAD THEN TURN LEFT GO EAST ON THE ROAD FOR 0.08 MI (0.1 KM) TO THE STATION ON THE LEFT. IT IS 12.5 M (41.0 FT) NORTH OF A WITNESS POST, 208 FT (63.4 M) SOUTHEAST OF THE SOUTH EAST CORNER OF THE RIVER OF LIFE CHURCH, 48 FT (14.6 M) NORTHEAST OF A COMBINATION POLE, 30 FT (9.1 M) EAST OF AN ASPHALT DRIVE, 26.6 FT (8.1 M) NORTH OF AN ASPHALT ROAD AND 10 FT (3.0M) NORTHWEST OF A WATER METER.</p>

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR Ref Mon # 2 ARR V Ref Mon # 3 ARM3, MOBR	USED NGS PUBLISHED ELEV. IN FINAL STATIC NETWORK ADJUSTMENT

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station MAGNOLIA 2	Date Monumented 1/1/1976	Monumented By NGS	County COLUMBIA	Route 371	Job Number: 070304
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	469,876.5730	
Easting (M)	284,872.8250	
Elevation (M)*	105.708	
Northing (SFT)	1,541,586.7233	
Easting (SFT)	934,620.2600	
Elevation (SFT)*	346.811	

Convergence Angle	0	41	30.4308927
Scale Factor	1.000002146		
Elevation Adjust. Factor	0.9999834112		
Combined Adjust. Factor	0.9999855572		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAGNOLIA 2 AZ MK (DL1471)	083 58	157.03	515.2
MK # 2	MAGNOLIA 2 RM 5 (DL0629)	122 21	16.07	52.7
MK # 3	MAGNOLIA (DL0626)	286 19	32.29	105.9

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Digital Levels ran March 2009 by crew S5110 from 2nd order NGS marks Magnolia RM 2 and H120 (Job 070177 was ran with 3wire levels from H120 and appended to digital levels on Job 070304 from Magnolia RM 2)</td> </tr> </table>	Comments	Digital Levels ran March 2009 by crew S5110 from 2nd order NGS marks Magnolia RM 2 and H120 (Job 070177 was ran with 3wire levels from H120 and appended to digital levels on Job 070304 from Magnolia RM 2)
Comments			
Digital Levels ran March 2009 by crew S5110 from 2nd order NGS marks Magnolia RM 2 and H120 (Job 070177 was ran with 3wire levels from H120 and appended to digital levels on Job 070304 from Magnolia RM 2)			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station MANIPORT	Date Monumented 1/1/2000	Monumented By NGS	County MISSISSIPPI	Route 77	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	174,445.7589	
Easting (M)	566,572.7470	
Elevation (M)*	73.150	
Northing (SFT)	572,327.4607	
Easting (SFT)	1,858,830.7541	
Elevation (SFT)*	239.993	

Convergence Angle	1	4	25.2417872
Scale Factor	0.999950286		
Elevation Adjust. Factor	0.9999885205		
Combined Adjust. Factor	0.9999388071		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>THE STATION IS LOCATED ABOUT 16 KM (9.95 MI) EAST-NORTHEAST OF MONETTE, 9 KM (5.60 MI) SOUTHEAST OF LEACHVILLE, ON THE NORTHEAST SIDE OF MANILLA AT THE MANILLA MUNICIPAL AIRPORT, JUST SOUTH OF MIDFIELD AND DUE EAST OF THE AIRPORT BEACON. OWNERSHIP--CITY OF MANILLA, PO BOX 895, MANILLA, AR 72442. AIRPORT MANAGER IS JIMMY WHITE WHO CAN BE REACHED AT 501-561-4437 (CITY HALL NUMBER) OR 501-561-3375 (BUSINESS NUMBER). NOTE--THIS STATION IS A PRIMARY AIRPORT CONTROL (PAC) STATION. TO REACH THE STATION FROM THE EAST ONE OF TWO JUNCTIONS OF STATE HIGHWAYS 77 AND 18 IN MANILLA, GO NORTHEAST AND EAST ON HIGHWAY 18 FOR 0.72 KM (0.45 MI) TO HIGHWAY 18B (BALTIMORE STREET) ON THE LEFT. TURN LEFT AND GO NORTH ON BALTIMORE STREET FOR 1.53 KM (0.95 MI) TO THE JUNCTION OF LAKE STREET. TURN RIGHT ON LAKE STREET AND GO EAST FOR 0.89 KM (0.55 MI) TO THE PAVED AIRPORT ENTRANCE ROAD ON THE LEFT. TURN LEFT AND GO NORTH ON AIRPORT ROAD FOR 0.36 KM (0.20 MI) TO A GATE. PASS THROUGH THE GATE, TURN RIGHT AND PROCEED EAST ON A PAVED ROAD FOR 0.08 KM (0.05 MI) TO WHERE THE ROAD TURNS RIGHT. TURN RIGHT AND GO SOUTH ON THE ROAD AND ACROSS THE APRON FOR 0.16 KM (0.10 MI) TO A</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station MATNEY	Date Monumented 1/1/1953	Monumented By NGS	County BAXTER	Route 341	Job Number: 009813
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	207,855.9170	
Easting (M)	371,628.1020	
Elevation (M)*		
Northing (SFT)	681,940.6210	
Easting (SFT)	1,219,249.8646	
Elevation (SFT)*		

Convergence Angle	0	11	0.9156983
Scale Factor	0.999994796		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MATNEY RM 1	63 55 00	18.62	61.1
MK # 2	MATNEY KNOB	238 34 00	21.86	71.7
MK # 3	MATNEY LOOKOUT TOWER	239 44 00	20.00	65.6

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 100px;"> Comments </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station EY LOOKOUT T	Date Monumented 1/1/1953	Monumented By NGS	County BAXTER	Route 341	Job Number: 009813
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	207,845.8930	
Easting (M)	371,610.7990	
Elevation (M)*		
Northing (SFT)	681,907.7340	
Easting (SFT)	1,219,193.0964	
Elevation (SFT)*		

Convergence Angle	0	11	1.3180159
Scale Factor	0.999994778		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	
MK # 2			0.00	0.0	
MK # 3			0.00	0.0	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station MENAPORT	Date Monumented 1/1/1990	Monumented By NGS	County POLK	Route 8	Job Number: 040352
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	610,835.2659	
Easting (M)	197,403.5300	
Elevation (M)*	322.600	
Northing (SFT)	2,004,048.7015	
Easting (SFT)	647,648.0813	
Elevation (SFT)*	1,058.397	

Convergence Angle	-1	14	7.8561640
Scale Factor	0.999958521		
Elevation Adjust. Factor	0.9999493761		
Combined Adjust. Factor	0.9999078992		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>STATION IS LOCATED ABOUT 11.1 KM (6.9 MI) EAST OF POTTER, 9.4 KM (5.8 MI) SOUTHWEST OF INK, AND 4.5 KM (2.8 MI) SOUTHEAST OF MENA. AT THE MENA INTERMOUNTAIN REGIONAL AIRPORT. OWNERSHIP--CITY OF MENA, P.O. BOX 898, MENA AR 71953. NO AIRPORT MANAGER. CONTACT GARY WILLIAMS, FBO, P.O.BOX 1413, MENA AR 71953. PHONE IS 501-394-5800 OR HOME 501-394-3000. AND JIM MONTGOMERY, AIRPORT COMMISSION. PHONE IS 501-394-2536. TO REACH FROM THE JUNCTION OF U.S.HIGHWAYS 59, 71 AND STATE HIGHWAY 8 IN NORTHEAST MENA, GO SOUTHERLY ON STATE HIGHWAY 8 FOR 3.91 KM (2.43 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO SOUTHWEST ON COUNTY ROAD 980 FOR 0.68 KM (0.42 MI) TO A T-JUNCTION. TURN RIGHT AND GO NORTH ON A PAVED ROAD FOR 0.14 KM (0.09 MI) TO A TAXIWAY. TURN LEFT AND GO SOUTH ON A TAXIWAY FOR 0.16 KM (0.10 MI) TO TAXIWAY AND THE STATION ON THE RIGHT. AIRPORT OFFICE IS WEST AND ACROSS THE RUNWAY FROM THE STATION. THE STATION IS A PUNCH HOLE IN THE TOP OF A 5/8-INCH STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE WITH LOGO CAP, SET 40.0 M (131.2 FT) EAST-NORTHEAST OF THE RUNWAY CENTERLINE, 21.0 M (68.9 FT) WEST-SOUTHWEST OF THE CENTER OF THE TAXIWAY, AND 20.0 M (65.6 FT) SOUTH-</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ENAPORT AZ M	1/1/1990	NGS	POLK	8	040352

Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	611,649.8759	
Easting (M)	197,322.7500	
Elevation (M)*	316.480	
Northing (SFT)	2,006,721.3012	
Easting (SFT)	647,383.0556	
Elevation (SFT)*	1,038.318	

Convergence Angle	-1	14	10.0148589
Scale Factor	0.999959673		
Elevation Adjust. Factor	0.9999503364		
Combined Adjust. Factor	0.9999100114		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>THE STATION IS LOCATED ABOUT 11 KM (6.85 MI) EAST OF POTTER, 4.74 KM (2.95 MI) SOUTHEAST OF MENA, AT THE MENA INTERMOUNTAIN REGIONAL AIRPORT, NEAR THE NORTH END OF THE AIRFIELD, JUST SOUTH OF THE RUNUP RAMP FOR RUNWAY END 17, BETWEEN THE RUNWAY AND PARALLEL TAXI. OWNERSHIP--CITY OF MENA, PO BOX 898, MENA AR 71953. NO AIRPORT MANAGER. FBO IS GARY WILLIAMS, PO BOX 1413, MENA AR 71953, PHONE 501-394-5800, 394-3000 (HOME). TO REACH FROM THE JUNCTION OF U.S. HIGHWAYS 59 AND 71, AND STATE HIGHWAY 8 IN NORTHEAST MENA, GO SOUTHEASTERLY ON HIGHWAY 8 FOR 3.94 KM (2.45 MI) TO A PAVED ROAD RIGHT, COUNTY ROAD 980. TURN RIGHT, SOUTHEAST, THEN SOUTH ON COUNTY ROAD 980 FOR 0.69 KM (0.40 MI) TO A CROSSROAD, AIRPORT LANE. TURN RIGHT, WEST ON THE ROAD FOR 0.14 KM (0.10 MI) TO A TAXIWAY. TURN RIGHT, NORTH ALONG THE TAXIWAY FOR 0.69 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD IN A GREASE FILLED SLEEVE 90 CM LONG ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE RECESSED 3 CM BELOW THE GROUND. IT IS 35.8 M (117.5 FT) EAST-NORTHEAST OF THE RUNWAY CENTER, 25.4 M (83.3 FT) WEST-SOUTHWEST OF THE</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1			0.00	0.0	MENAPORT (EK1035)	
MK # 2			0.00	0.0		
MK # 3			0.00	0.0		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station MO 162	Date Monumented 9/1/1997	Monumented By MoDOT	County GREENE	Route 412	Job Number: 100451
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	191,515.4519	
Easting (M)	548,543.1580	
Elevation (M)*		
Northing (SFT)	628,330.2784	
Easting (SFT)	1,799,678.6775	
Elevation (SFT)*		

Convergence Angle	0	57	33.5878467
Scale Factor	0.999968666		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NONE		
MK # 2	NONE		
MK # 3	NONE		

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD PAR 1	
Ref Mon # 2 KENNPORT	
Ref Mon # 3 MANIPORT	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 2 54.1109796
Longitude	90 21 4.9716072
Ellipsoid Height (M):	47.536
Geoid Height (M):	-28.183

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 139 NORTH, LOCATED ABOUT 11.27 KM (7.00 MI) EAST OF PARAGOULD, GO EAST ON U.S HIGHWAY 412 FOR 0.56 KM (0.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.47 METERS SOUTHWEST OF A POWER POLE, 17.51 METERS EAST OF A POWER POLE AND 12.10 METER NORTH OF NORTH EDGE OF CONCRETE OF U.S. HIGHWAY 412. THE STATION MARK IS A COPPERWELD 0.61 METERS LONG STAMPED "162" SET IN CONCRETE 0.15 METERS BELOW THE GROUND SURFACE. THE SHOT DISTANCE IS 439.320 METERS.</p>

AZ Mark Station	MO 163
Geodetic Azimuth	122 38 39.13596
Grid Azimuth	121 41 05.59659

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station MO 163	Date Monumented 9/1/1997	Monumented By MoDOT	County GREENE	Route 412	Job Number: 100451
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	191,284.7100	
Easting (M)	548,916.9810	
Elevation (M)*		
Northing (SFT)	627,573.2527	
Easting (SFT)	1,800,905.1285	
Elevation (SFT)*		

Convergence Angle	0	57	42.1874599
Scale Factor	0.999968365		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	LITER SIGN POST	30	19.95	65.5	MO 162
MK # 2	POWER POLE	135	31.85	104.5	302 38 47.83244
MK # 3	NONE				301 41 05.59659

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD PAR 1	
Ref Mon # 2 KENNPORT	
Ref Mon # 3 MANIPOINT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station MO 166	Date Monumented 3/17/2000	Monumented By MoDOT	County GREENE	Route 164	Job Number: 100451
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	190,668.1820	
Easting (M)	553,792.6960	
Elevation (M)*		
Northing (SFT)	625,550.5271	
Easting (SFT)	1,816,901.5368	
Elevation (SFT)*		

Convergence Angle	0	59	35.2727281
Scale Factor	0.999967485		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	192	5.00	16.4
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	280003
Ref Mon # 2	KENNPOR
Ref Mon # 3	MANIPOR

Comments

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 36 2 23.7232284

Longitude 90 17 35.8548108

Ellipsoid Height (M): 46.306

Geoid Height (M): -28.190

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, MISSOURI STATE HIGHWAY 164 AND COUNTY ROAD F, LOCATED ABOUT 4.83 KM (3.00 MI) EAST OF THE ARKANSAS-MISSOURI STATE LINE, GO NORTH ON STATE HIGHWAY 164 FOR 0.08 KM (0.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.55 METERS WEST OF THE CENTER OF STATE HIGHWAY 164. THE STATION MARK IS COPPERWELD 0.61 METERS LONG STAMPED "166" SET IN CONCRETE 0.15 METERS BELOW THE GROUND SURFACE. THE SHOT DISTANCE IS 526.917 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station MO 166A	Date Monumented 3/17/2000	Monumented By AHTD	County GREENE	Route 412	Job Number: 100451
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	190,556.9909	
Easting (M)	553,277.6690	
Elevation (M)*		
Northing (SFT)	625,185.7276	
Easting (SFT)	1,815,211.8190	
Elevation (SFT)*		

Convergence Angle	0	59	23.2574499
Scale Factor	0.999967358		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END CMP	55	8.20	26.9
MK # 2	POWER POLE	260	13.64	44.8
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 280003	
Ref Mon # 2 KENNPORT	
Ref Mon # 3 MANIPORT	

Vertical Determined By: NONE

Elevation Datum: NONE

Geoid Datum:

Latitude 36 2 20.4052884

Longitude 90 17 56.5031976

Ellipsoid Height (M): 46.476

Geoid Height (M): -28.189

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, MISSOURI STATE HIGHWAY 164 AND COUNTY ROAD F, LOCATED ABOUT 4.83 KM (3.00 MI) EAST OF THE ARKANSAS-MISSOURI STATE LINE, GO WEST ON U.S. HIGHWAY 412 FOR 0.48 KM (0.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.75 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 412, 12.40 METERS WEST OF A FIELD ENTRANCE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "MO 166A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 526.917 METERS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
MO TARGET F	1/22/2001	MODOT	DONALD CO. I	N/A	009969

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	244,238.1335	
Easting (M)	185,739.1761	
Elevation (M)*	308.122	
Northing (SFT)	801,304.6097	
Easting (SFT)	609,379.2803	
Elevation (SFT)*	1,010.898	

Convergence Angle	-1	23	30.7718581
Scale Factor	1.000066768		
Elevation Adjust. Factor	0.9999516479		
Combined Adjust. Factor	1.0000184127		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	NAIL IN SHINNER 24" OAK	17	
MK # 2	NAIL IN SHINNER CROSS TIE GATE POST	105	
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	V 26
Ref Mon # 2	CASSPORT
Ref Mon # 3	FLINT

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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
MO TARGET G	1/22/2001	MODOT	DONALD CO. I	N/A	009969

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	244,431.1263	
Easting (M)	186,086.7438	
Elevation (M)*	314.412	
Northing (SFT)	801,937.7869	
Easting (SFT)	610,519.5920	
Elevation (SFT)*	1,031.533	

Convergence Angle	-1	23	22.7561660
Scale Factor	1.000067282		
Elevation Adjust. Factor	0.9999506610		
Combined Adjust. Factor	1.0000179396		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NAIL IN SHINNER IN 6" HACKBERRY TREE	92		
MK # 2	NAIL INSHINNER IN 6" WHITE OAK	159		
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 100%;" type="text" value="V 26"/> Ref Mon # 2 <input style="width: 100%;" type="text" value="CASSPORT"/> Ref Mon # 3 <input style="width: 100%;" type="text" value="FLINT"/>	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 30 47.0081232
Longitude	94 23 17.2910508
Ellipsoid Height (M):	286.363
Geoid Height (M):	-28.261

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF GLASGOW ROAD (OLD COUNTY ROAD 472) AND EDINBURGH ROAD, LOCATED ON THE NORTHWEST SIDE OF BELLA VISTA, GO WEST ON EDINBURGH ROAD FOR 2.35 KM (1.40 MI) TO THE END OF PAVEMENT, COUNTINE WEST ON EDINBURG ROAD FOR 2.17 KM (1.35 MI) TO THE JUNCTION OF A GRAVELED ENTRANCE TO A PASTURE ON THE RIGHT, TURN RIGHT NORTHWEST AND PASS THRU A LOCKED GATE FOR 0.31 KM (0.20 MI) TO A "Y" JUNCTION GO LEFT, CONTINUE NORTHWEST FOR 1.13 KM (0.70 MI) TO FIELD ROAD ON THE RIGHT, GO RIGHT NORTEAST PASSING THRU A CREEK FOR 0.24 KM (0.15 MI) TO A WIRE GATE, GO THUR THE GATE AND CONTINUE NORHTEAST FOR .40KM (0.25 MI) TO THE STATION. THE STATION IS 5.70 METERS SOUTHEAST OF A FIELD ROAD AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A 5/8" REBAR WITH A PUNCH MARK SET IN CONCRETE ABOUT 0.15 METERS BELOW THE LEVEL OF THE GROUND. THE SHOT DISTANCE IS 397.543 METERS.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station MORO	Date Monumented 1/1/1965	Monumented By USC&GS	County LEE	Route 79	Job Number: R10087
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	49,553.8550	
Easting (M)	494,548.1070	
Elevation (M)*	61.776	
Northing (SFT)	162,577.9393	
Easting (SFT)	1,622,529.9144	
Elevation (SFT)*	202.675	

Convergence Angle	0	36	3.7162910
Scale Factor	1.000034773		
Elevation Adjust. Factor	0.9999903055		
Combined Adjust. Factor	1.0000250782		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	MORO RM 1	90	30.37	99.6	390004
MK # 2	MORO RM 2	270	29.03	95.2	323 48 29
MK # 3					323 12 25

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	Original elevation was 202.6538. Elevation updated by crew S5102n in May 2016 using three wire from NGS benchmark M 176 and P 176.
Ref Mon # 2 540002	
Ref Mon # 3 480005	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station MOSS	Date Monumented 1/1/1986	Monumented By LaDOT	County LA / WEBSTER	Route N/A	Job Number: NA
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	436,501.9064	0.1800			
Easting (M)	268,147.3567	0.1600			
Elevation (M)*	63.289				
Northing (SFT)	1,432,090.0046				
Easting (SFT)	879,746.7861				
Elevation (SFT)*	207.641				

Convergence Angle	0	47	22.2454626		
Scale Factor	1.000083937				
Elevation Adjust. Factor	0.9999900680				
Combined Adjust. Factor	1.0000740042				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>THE STATION IS LOCATED ABOUT 30 MI (48.3 KM) NORTHEAST OF SHREVEPORT, 20 MI (32.2 KM) NORTHWEST OF HOMER, 3 MI (4.8 KM) SOUTHEAST OF SPRINGHILL, AT THE SPRINGHILL AIRPORT, NEAR THE NORTH END OF THE PARALLEL TAXIWAY (OLD RUNWAY). OWNERSHIP--CITY OF SPRINGHILL, CITY HALL, 101 MACHEN DRIVE, SPRINGHILL LA 71075. AIRPORT MANAGER IS S.C. MOSS, PHONE 318-539-4568. CONTACT HIM PRIOR TO OBSERVATIONS. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 371 AND STATE HIGHWAY 157 IN SPRINGHILL, GO EAST FOR 3.5 MI (5.6 KM) ON HIGHWAY 157 TO PARISH ROAD 210 (SPRINGHILL AIRPORT ROAD) ON THE RIGHT. TURN RIGHT AND GO SOUTH, THEN SOUTHEAST FOR 0.3 MI (0.5 KM) ON PARISH ROAD 210 TO PARISH ROAD 210A (AIRPORT LOOP ROAD) ON THE LEFT. TURN LEFT AND GO EAST-NORTHEAST FOR 0.05 MI (0.08 KM) ON PARISH ROAD 210A TO THE AIRPORT ACCESS ROAD ON RIGHT. TURN RIGHT AND GO SOUTHEAST, THEN SOUTH FOR 0.2 MI (0.3 KM) ON THE ACCESS ROAD TO THE AIRPORT OFFICE ON LEFT. CONTINUE SOUTH FOR 0.05 MI (0.08 KM) ON APRON AND WEST ON RAMP TO THE JUNCTION WITH NORTH END OF PARALLEL TAXIWAY AND THE STATION ON LEFT. LOCATED 441.7 FT (134.6 M) WEST FROM THE CENTERLINE OF RUNWAY, 77.0 FT (23.5 M) SOUTH FROM THE CENTERLINE OF</p>					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1			0.00	0.0	AZ Mark Station
MK # 2			0.00	0.0	Geodetic Azimuth
MK # 3			0.00	0.0	Grid Azimuth

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <p>Position is from NGS datasheet</p> <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station N 209	Date Monumented 1/1/1962	Monumented By NGS	County CONWAY	Route 124	Job Number: 080382
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	108,829.2991	
Easting (M)	354,705.3780	
Elevation (M)*	111.648	
Northing (SFT)	357,050.7921	
Easting (SFT)	1,163,729.2277	
Elevation (SFT)*	366.300	

Convergence Angle	0	17	23.4509372
Scale Factor	0.999947056		
Elevation Adjust. Factor	0.9999824790		
Combined Adjust. Factor	0.9999295360		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	ARFY

Comments

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 18 47.7491292
Longitude	92 29 53.1818196
Ellipsoid Height (M):	83.609
Geoid Height (M):	-28.039

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 285, SOUTHWEST OF DAMASCUS, GO WEST ON 124 FOR 2.75 MILES TO THE STATION MARK ON THE LEFT, 8.5 FEET NORTHWEST OF A 4 STRAN BARBWIRE FENCE, SOUTHEAST 32.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTHWEST 2.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD BENCH MARK DISK STAMPED "N 209 1962" SET IN A CONCRETE POST PROJECTING 1.0 FOOT ABOVE THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station N 314	Date Monumented 1/2/1990	Monumented By NOAA	County POINSETT	Route 63	Job Number: 001849
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (1997)		
Northing (M)	133,665.4611		
Easting (M)	540,603.2918		
Elevation (M)*	65.405		
Northing (SFT)	438,534.1003		
Easting (SFT)	1,773,629.2998		
Elevation (SFT)*	214.583		

Convergence Angle	0	54	7.8431657
Scale Factor	0.999936412		
Elevation Adjust. Factor	0.9999897359		
Combined Adjust. Factor	0.9999261486		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	105	1.80	5.9
MK # 2	NONE			
MK # 3	NONE			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>W 15 OFFSET</td> </tr> <tr> <td>Ref Mon # 2</td> <td>MANIPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MEM2</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	W 15 OFFSET	Ref Mon # 2	MANIPORT	Ref Mon # 3	MEM2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Area Reference Monuments (used for Processing)											
Ref Mon # 1	W 15 OFFSET										
Ref Mon # 2	MANIPORT										
Ref Mon # 3	MEM2										
Comments											

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 31 41.4659064

Longitude 90 26 58.5460860

Ellipsoid Height (M): 37.817

Geoid Height (M): -27.588

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 149, LOCATED IN MARKED TREE, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 3.57 KM (2.22 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.80 METERS NORTH OF THE CENTER OF THE NORTHBOUND LANE OF U. S. HIGHWAY 63, 0.30 METERS EAST OF A FIBERGLASS WITNESS POST AND 0.50 METERS SOUTH OF AN AHTD WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD WITH A PUNCH MARK ON TOP OF THE ROD WITH ACCESS THROUGH A 0.127 METER LOGO CAP STAMPED "N 314 1990". THE SHOT DISTANCE IS 508.870.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station N 314A	Date Monumented 10/2/2000	Monumented By AHTD	County POINSETT	Route 63	Job Number: 001849
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 133,637.7585		Latitude 35 31 40.3070376
Easting (M) 541,111.3717		Longitude 90 26 38.3978364
Elevation (M)* 65.773		Ellipsoid Height (M): 38.165
Northing (SFT) 438,443.2127		Geoid Height (M): -27.589
Easting (SFT) 1,775,296.2253		
Elevation (SFT)* 215.790		

Convergence Angle 0 54 19.5674146	
Scale Factor 0.999936417	
Elevation Adjust. Factor 0.9999896782	
Combined Adjust. Factor 0.9999260958	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 149, LOCATED IN MARKED TREE, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 3.00 KM (1.87 MI) TO THE STATION ON THE LEFT SET IN THEN MEDIAN. THE STATION IS 10.15 METERS SOUTH OF THE NORTHBOUND LANE OF U.S. HIGHWAY 63, 9.55 METERS NORTH OF THE CENTER OF THE SOUTHBOUND LAND OF U.S. HIGHWAY 63 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "N 314A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK N 314. THE SHOT DISTANCE IS 508.870 METERS.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 W 15 OFFSET	
Ref Mon # 2 MANIPORT	
Ref Mon # 3 MEM2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station N 34 RESET	Date Monumented 1/2/1987	Monumented By USC&GS	County BENTON	Route 72	Job Number: 009969
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 234,938.5236		Latitude 36 25 39.5142312
Easting (M) 186,540.4970		Longitude 94 22 49.8396936
Elevation (M)* 399.647		Ellipsoid Height (M): 371.729
		Geoid Height (M): -28.071

Northing (SFT) 770,794.1395		
Easting (SFT) 612,008.2806		
Elevation (SFT)* 1,311.174		

Convergence Angle -1 23 6.7822451		
Scale Factor 1.000044195		
Elevation Adjust. Factor 0.9999372864		
Combined Adjust. Factor 0.9999814786		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO WEST ON STATE HIGHWAY 72 FOR 5.01 KM (3.11 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.63 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 72 AND 0.28 METERS NORTHWEST OF A WITNESS POST. THE STATION IS A N.G.S. DISK STAMPED "N 34 RESET 1987" SET IN A SQUARE CONCRETE MONUMENT. THE SHOT DISTANCE IS 502.558. ELEVATION ON THIS STATION WAS RUN BY N.G.S.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST	86	1.23	4.0
MK # 2	MOST WESTERLY BRACE POST	231	3.45	11.3
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 V 26</p> <p>Ref Mon # 2 CASSPORT</p> <p>Ref Mon # 3 FLINT</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station N 37	Date Monumented 1/1/1934	Monumented By CGS	County MARION	Route 62	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	212,164.2540	
Easting (M)	336,470.0780	
Elevation (M)*	252.129	
Northing (SFT)	696,075.5567	
Easting (SFT)	1,103,902.2476	
Elevation (SFT)*	827.193	

Convergence Angle	0	24	40.6124347
Scale Factor	1.000002051		
Elevation Adjust. Factor	0.9999604343		
Combined Adjust. Factor	0.9999624852		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	
MK # 2			0.00	0.0	
MK # 3			0.00	0.0	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 150px;"></div>
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Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 14 36.9928968
Longitude	92 42 24.4486224
Ellipsoid Height (M):	223.760
Geoid Height (M):	-28.390

Location Description
<p>THE STATION IS LOCATED ABOUT 12 KM (7.45 MI) EAST OF PYATT, 10 KM (6.20 MI) SOUTHWEST OF FLIPPIN, 3 KM (1.85 MI) NORTHWEST OF YELLVILLE, IN THE NORTH QUADRANT OF THE JUNCTION OF THE HIGHWAY AND A RAILROAD TRACK. OWNERSHIP--MISSOURI PACIFIC RAILROAD. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 14 IN THE CENTER OF YELLVILLE, GO NORTHWEST ON HIGHWAY 62 FOR 2.98 KM (1.85 MI) TO THE STATION ON THE RIGHT JUST AFTER CROSSING THE RAILROAD TRACKS. THE STATION IS SET IN THE TOP OF A 15 CM SQUARE CONCRETE POST PROJECTING 25 CM ABOVE GROUND. IT IS 51.3 M (168.3 FT) EAST-NORTHEAST OF THE CENTER OF THE JUNCTION OF THE HIGHWAY AND THE RAILROAD TRACKS, 16.7 M (54.8 FT) NORTHEAST OF THE NORTHEAST CORNER OF A METAL RAILROAD JUNCTION BOX, 5.9 M (19.4 FT) NORTH-NORTHWEST OF THE NORTHWEST RAIL OF THE TRACKS AND 0.4 M (1.3 FT) SOUTH-SOUTHEAST OF A STEEL WITNESS POST.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station N 42	Date Monumented 1/1/1935	Monumented By NGS	County INDEPENDENCE	Route 25	Job Number: 050175
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	153,528.5740
Easting (M)	422,551.6770
Elevation (M)*	121.223
Northing (SFT)	503,701.6632
Easting (SFT)	1,386,321.6270
Elevation (SFT)*	397.712

Convergence Angle	0	8	42.1323373
Scale Factor	0.999938608		
Elevation Adjust. Factor	0.9999809765		
Combined Adjust. Factor	0.9999195857		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	2nd Order by NGS
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 43 0.9884640
Longitude	91 45 2.7098820
Ellipsoid Height (M):	93.831
Geoid Height (M):	-27.392

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 14 AND STATE HIGHWAY 25, SOUTHWEST OF BATESVILLE, GO SOUTH ON HIGHWAY 25 FOR 0.41 MILES TO THE STATION MARK ON THE RIGHT, 39.0 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY AND 24.0 FEET WEST OF</p>

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: HEBEPORT</p> <p>Ref Mon # 2: ARHR</p> <p>Ref Mon # 3: ARLR</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station N 48	Date Monumented 1/1/1934	Monumented By NGS	County VAN BUREN	Route 16	Job Number: 050228
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	139,796.8380	
Easting (M)	358,541.6550	
Elevation (M)*	154.833	
Northing (SFT)	458,650.1260	
Easting (SFT)	1,176,315.4131	
Elevation (SFT)*	507.981	

Convergence Angle	0	15	58.3907757
Scale Factor	0.999935946		
Elevation Adjust. Factor	0.9999757022		
Combined Adjust. Factor	0.9999116498		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>THE STATION IS LOCATED IN THE CENTER OF THE CLINTON BUSINESS DISTRICT SOUTHWEST AND ACROSS THE STREET FROM THE COURT HOUSE BUILDING ON THE WEST SIDE OF A POWER POLE AT THE SOUTHEAST CORNER OF THE JUNCTION OF COURT STREET AND A STREET ON THE SOUTH SIDE OF THE COURT HOUSE. TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 65 AND STATE HIGHWAY 16 WEST ON THE NORTH SIDE OF CLINTON, GO SOUTH ON HIGHWAY 65 FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF HIGHWAY 65-B, BEAR RIGHT, SOUTHERLY ON HIGHWAY 65-B FOR 1.05 KM (0.65 MI) TO THE JUNCTION OF MAIN STREET ON THE LEFT, TURN LEFT, EAST ON MAIN STREET FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF COURT STREET, TURN RIGHT, SOUTH ON COURT STREET FOR 0.05 KM (0.05 MI) TO THE JUNCTION OF A PAVED STREET ON THE SOUTH SIDE OF THE COURT HOUSE, AND THE STATION ON THE LEFT AT THE SOUTHEAST CORNER OF THE JUNCTION OF COURT STREET AND THE STREET ON THE SOUTH SIDE OF THE COURT HOUSE, DIRECTLY SOUTHWEST AND ACROSS THE STREET FROM THE COURT HOUSE FLAG POLE. THE STATION IS A CGS BENCH MARK DISK SET IN THE TOP OF A 15 CM SQUARE CONCRETE POST PROJECTING ABOUT 15 CM ABOVE THE STREET. LOCATED 18.60 M (61.02 FT) NORTHEAST AND</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHR Ref Mon # 3 ARBT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station N 81	Date Monumented 1/1/1935	Monumented By USC&GS	County Dallas	Route NA	Job Number: 001914
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	551,856.4001	
Easting (M)	351,823.5820	
Elevation (M)*	75.454	
Northing (SFT)	1,810,548.8727	
Easting (SFT)	1,154,274.5353	
Elevation (SFT)*	247.552	

Convergence Angle	0	17	31.2323711
Scale Factor	0.999918470		
Elevation Adjust. Factor	0.9999881589		
Combined Adjust. Factor	0.9999066299		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>The station is about 3.4 miles south of Carthage along the railroad track. 140 feet southeast of a railroad bridge, 72.5 feet southeast of the center of a railroad crossing, 47.7 feet east of the center of the railroad track and 40.8 feet west of the center of a county road. The station mark is a cap stamped "N 81 1935" set in top of a concrete post.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM, IULM,S 197,K 124 Ref Mon # 2 700014,270005 070003,0700 Ref Mon # 3 T 83 N 81 070005 LROC UAM	This station is a NGS 2nd order bench mark.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station NEWSPORT	Date Monumented 1/1/1990	Monumented By NGS	County JACKSON	Route 18	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	145,511.6130	
Easting (M)	474,540.2320	
Elevation (M)*	72.460	
Northing (SFT)	477,399.3503	
Easting (SFT)	1,556,887.4112	
Elevation (SFT)*	237.729	

Convergence Angle	0	28	44.2199302
Scale Factor	0.999936444		
Elevation Adjust. Factor	0.9999886288		
Combined Adjust. Factor	0.9999250735		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>THE STATION IS LOCATED ABOUT 10 KM (6.20 MI) SOUTH-SOUTHEAST OF TUCKERMAN, 8 KM (4.95 MI) NORTHEAST OF NEWPORT, AT THE MUNICIPAL AIRPORT, NEAR MIDFIELD, ACROSS THE APRON FROM THE AIRPORT OFFICE, IN THE SOUTHEAST QUADRANT OF THE JUNCTION OF THE APRON AND A CONNECTOR TAXIWAY TO THE RUNWAY. OWNERSHIP--CITY OF NEWPORT, PO BOX 666, NEWPORT AR 72112. AIRPORT MANAGER IS DORSEY BLOCK, PHONE 501-523-3613 OR 523-9628. HOME PHONE IS 579-2351. FIRE STATION PHONE AT THE AIRFIELD IS 523-6099. CALL AHEAD FOR ACCESS THROUGH THE LOCKED GATE. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 18 ON THE NORTH SIDE OF NEWPORT, GO EAST ON HIGHWAYS 67 AND 18 FOR 1.13 KM (0.70 MI) TO THE JUNCTION OF HIGHWAY 67 SOUTH ON THE RIGHT. CONTINUE AHEAD, EAST ON HIGHWAY 18 FOR 1.53 KM (0.95 MI) TO WHERE HIGHWAY 18 TURNS NORTH. CONTINUE AHEAD, EAST ON COUNTY HIGHWAY 980 FOR 2.21 KM (1.35 MI) TO THE JUNCTION OF HIGHWAY 18S ON THE LEFT. CONTINUE AHEAD, EAST ON COUNTY HIGHWAY 980 FOR 0.90 KM (0.55 MI) TO A PAVED Y-JUNCTION. TURN LEFT, NORTHEAST ON VICTORY BOULEVARD FOR 0.64 KM (0.40 MI) TO A GATE AT THE APRON AND THE AIRPORT OFFICE AND FIRE STATION ON THE RIGHT.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station NO. 3	Date Monumented 5/28/1991	Monumented By AHTD	County PULASKI	Route 388	Job Number: OFFICE
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; text-align: center;">Zone</td> <td style="width: 70%; text-align: center;">Zone Code</td> </tr> <tr> <td style="text-align: center;">Arkansas North</td> <td style="text-align: center;">301</td> </tr> <tr> <td style="text-align: center;">Horizontal Datum</td> <td style="text-align: center;">NAD 83 (1986)</td> </tr> <tr> <td style="text-align: center;">Northing (M)</td> <td style="text-align: center;">37,588.8369</td> </tr> <tr> <td style="text-align: center;">Easting (M)</td> <td style="text-align: center;">365,062.3910</td> </tr> <tr> <td style="text-align: center;">Elevation (M)*</td> <td></td> </tr> <tr> <td style="text-align: center;">Northing (SFT)</td> <td style="text-align: center;">123,322.7091</td> </tr> <tr> <td style="text-align: center;">Easting (SFT)</td> <td style="text-align: center;">1,197,708.8611</td> </tr> <tr> <td style="text-align: center;">Elevation (SFT)*</td> <td></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; text-align: center;">Convergence Angle</td> <td style="width: 10%; text-align: center;">0</td> <td style="width: 10%; text-align: center;">13</td> <td style="width: 50%; text-align: center;">18.5061251</td> </tr> <tr> <td style="text-align: center;">Scale Factor</td> <td colspan="3" style="text-align: center;">1.000061773</td> </tr> <tr> <td style="text-align: center;">Elevation Adjust. Factor</td> <td colspan="3"></td> </tr> <tr> <td style="text-align: center;">Combined Adjust. Factor</td> <td colspan="3"></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;">SUPERCEDED CONTROL</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; text-align: center;">Horizontal Datum</td> <td></td> </tr> <tr> <td style="text-align: center;">Latitude</td> <td></td> </tr> <tr> <td style="text-align: center;">Longitude</td> <td></td> </tr> <tr> <td style="text-align: center;">Ellipsoid Height:</td> <td></td> </tr> <tr> <td style="text-align: center;">Grid Northing (Meters)</td> <td></td> </tr> <tr> <td style="text-align: center;">Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas North	301	Horizontal Datum	NAD 83 (1986)	Northing (M)	37,588.8369	Easting (M)	365,062.3910	Elevation (M)*		Northing (SFT)	123,322.7091	Easting (SFT)	1,197,708.8611	Elevation (SFT)*		Convergence Angle	0	13	18.5061251	Scale Factor	1.000061773			Elevation Adjust. Factor				Combined Adjust. Factor				Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; text-align: center;">Vertical Determined By:</td> <td style="width: 40%; text-align: center;">NONE</td> </tr> <tr> <td style="text-align: center;">Elevation Datum:</td> <td style="text-align: center;">NONE</td> </tr> <tr> <td style="text-align: center;">Geoid Datum:</td> <td></td> </tr> <tr> <td style="text-align: center;">Latitude</td> <td style="text-align: center;">34 40 17.5167948</td> </tr> <tr> <td style="text-align: center;">Longitude</td> <td style="text-align: center;">92 22 52.2414876</td> </tr> <tr> <td style="text-align: center;">Ellipsoid Height (M):</td> <td></td> </tr> <tr> <td style="text-align: center;">Geoid Height (M):</td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px; text-align: center;">Location Description</div> <div style="border: 1px solid black; height: 200px; margin-top: 5px;"></div>	Vertical Determined By:	NONE	Elevation Datum:	NONE	Geoid Datum:		Latitude	34 40 17.5167948	Longitude	92 22 52.2414876	Ellipsoid Height (M):		Geoid Height (M):	
Zone	Zone Code																																																												
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Geoid Height (M):																																																													

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	NONE					AZ Mark Station
MK # 2	NONE					Geodetic Azimuth
MK # 3	NONE					Grid Azimuth

<div style="text-align: center; margin-bottom: 5px;">Area Reference Monuments (used for Processing)</div> <table style="width: 100%;"> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NONE</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	NONE	Ref Mon # 2	NONE	Ref Mon # 3	NONE	<div style="border: 1px solid black; padding: 5px; text-align: center; margin-bottom: 5px;">Comments</div> <div style="border: 1px solid black; height: 100px;"></div>
Ref Mon # 1	NONE						
Ref Mon # 2	NONE						
Ref Mon # 3	NONE						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station NO. 4	Date Monumented 5/28/1991	Monumented By AHTD	County PULASKI	Route 388	Job Number: OFFICE
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	37,457.2578	
Easting (M)	364,916.1980	
Elevation (M)*	94.428	
Northing (SFT)	122,891.0200	
Easting (SFT)	1,197,229.2263	
Elevation (SFT)*	309.803	

Convergence Angle	0	13	21.8356714
Scale Factor	1.000062101		
Elevation Adjust. Factor	0.9999851814		
Combined Adjust. Factor	1.0000472815		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station
MK # 2	NONE				Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 NONE</p> <p>Ref Mon # 2 NONE</p> <p>Ref Mon # 3 NONE</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station O 2	Date Monumented 1/1/1928	Monumented By AHTD	County LAWRENCE	Route 412/63	Job Number: 100686
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 2nd Order by NGS
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 194,812.8339		Latitude 36 5 8.4401952
Easting (M) 484,307.1310		Longitude 91 3 50.0502780
Elevation (M)* 80.452		Ellipsoid Height (M): 52.459
		Geoid Height (M): -27.992

Northing (SFT) 639,148.4392	Easting (SFT) 1,588,930.9790	Location Description
Elevation (SFT)* 263.950		RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1992 0.4 KM (0.25 MI) SOUTHERLY ALONG U.S. HIGHWAY 63 FROM THE POST OFFICE IN POSTIA, IN TOP OF AND 0.3 M (1.0 FT) NORTHWEST OF THE SOUTHEAST END OF THE SOUTHWEST CONCRETE HEADWALL OF A CULVERT UNDER THE BURLINGTON NORTHERN RAILROAD, 37.3 M (122.4 FT) NORTHEAST OF THE HIGHWAY CENTERLINE, 7.3 M (24.0 FT) SOUTHEAST OF THE CENTER OF A PAVED ROAD, 5.1 M (16.7 FT) SOUTHWEST OF THE NEAR RAIL, AND 0.6 M (2.0 FT) BELOW THE LEVEL OF THE TRACK.
Convergence Angle 0 32 40.9708048		
Scale Factor 0.999974146		
Elevation Adjust. Factor 0.9999873746		
Combined Adjust. Factor 0.9999615209		

SUPERCEDED CONTROL			
Horizontal Datum		Latitude	
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station 380010
MK # 2					Geodetic Azimuth 183 05 36
MK # 3					Grid Azimuth 182 32 55

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT, ARPG Ref Mon # 2 B 316, 380008 Ref Mon # 3 O 2,	Comments NGS 1ST ORDER BENCHMARK
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station OK 1	Date Monumented 11/30/1998	Monumented By AHTD	County BENTON	Route 412	Job Number: 090024
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	207,444.3540	
Easting (M)	169,177.2040	
Elevation (M)*	351.869	
Northing (SFT)	680,590.3514	
Easting (SFT)	555,042.2101	
Elevation (SFT)*	1,154.424	

Convergence Angle	-1	29	35.5058417
Scale Factor	0.999989176		
Elevation Adjust. Factor	0.9999447833		
Combined Adjust. Factor	0.9999339599		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL SIGNAL LIGHT POLE	355	24.12	79.1
MK # 2	EAST END RCP	308	16.95	55.6
MK # 3	GUY POLE	193	33.15	108.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 OLD MAIN	
Ref Mon # 2 FLINT	
Ref Mon # 3 V 26	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 10 33.6733284
Longitude	94 33 57.8654352
Ellipsoid Height (M):	323.449
Geoid Height (M):	-28.292

Location Description
<p>TO REACH THE STATION FROM THE ARKANSAS AND OKLAHOMA STATE LINE, LOCATED ON THE WEST SIDE OF SILOAM SPRINGS, GO WEST ON U.S. HIGHWAY 412 FOR 0.09 KM (0.06 MI) TO THE STATION ON THE LEFT. THE STATION IS 39.814 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 412, 26.187 METERS EAST OF THE CENTER OF U.S. HIGHWAY 59 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "OK 1 1998" SET ON TOP OF AN IRON ROD 1.00 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. NOTE THE CAP WAS DAMAGED WHILE SETTING THE STATION.05/26/1999 THE POINT WAS DESTROYED BY MAINTENANCE CREWS AND IS GONE.</p>

AZ Mark Station	040022
Geodetic Azimuth	83 21 52.461280
Grid Azimuth	84 51 28.060792

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station OLD MAIN	Date Monumented 8/19/1997	Monumented By NGS	County WASHINGTON	Route N/A	Job Number: NA
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	194,614.1249
Easting (M)	204,534.9070
Elevation (M)*	433.900
Northing (SFT)	638,496.5081
Easting (SFT)	671,044.9407
Elevation (SFT)*	1,423.554

Convergence Angle	-1	15	45.7867731
Scale Factor	0.999971510		
Elevation Adjust. Factor	0.9999319116		
Combined Adjust. Factor	0.9999034235		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 4 5.1102192
Longitude	94 10 11.9841636
Ellipsoid Height (M):	405.930
Geoid Height (M):	-28.010

Location Description

THE STATION IS LOCATED IN THE CENTER OF FAYETTEVILLE, ON THE UNIVERSITY OF ARKANSAS CAMPUS, EAST OF OLD MAIN AND OZARK HALL BUILDINGS ON THE EAST SIDE OF THE CAMPUS. TO REACH THE STATION FROM THE WASHINGTON COUNTY COURTHOUSE AT THE SOUTHEAST CORNER OF COLLEGE AVENUE AND DICKSON STREET IN FAYETTEVILLE, GO WEST ON DICKSON STREET FOR 0.6 MI (1.0 KM) TO A SIDE ROAD RIGHT, ARKANSAS AVENUE. TURN RIGHT, NORTH ON ARKANSAS AVENUE FOR 500 FT (152.4 M) TO THE STATION ON THE LEFT. THE STATION IS AN ARKANSAS HARN DISK SET IN A 13 INCH DIAMETER BY 48 INCH DEEP ROUND CONCRETE MONUMENT FLUSH WITH GROUND. LOCATED APPROXIMATELY 475 FT (144.8 M) WEST OF THE CENTERLINE OF ARKANSAS AVENUE, APPROXIMATELY 300 FT (91.4 M) WEST OF THE CENTERLINE OF RAZORBACK ROAD, 317 FEET (96.6 M) EAST OF THE NORTHEAST CORNER OF OZARK HALL, 72.1 FEET (22.0 M) NORTHEAST OF THE EAST END OF A 4 FOOT (1.2 M) BY 6 FOOT (1.8 M) METAL HATCH TO AN UNDERGROUND ELECTRICAL VAULT, 169.3 FEET (51.6 M) EAST OF A LIGHT POLE, 142.6 FEET (43.5 M) SOUTHEAST OF A LIGHT POLE AND 84 FEET (25.6 M) WEST OF A DRAINAGE SWALE.

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station OLVEY	Date Monumented 1/1/1954	Monumented By CGS	County BOONE	Route 62	Job Number: R90095
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	207,878.0925	0.0030			
Easting (M)	313,139.6631	0.0030			
Elevation (M)*	363.566				
Northing (SFT)	682,013.3751				
Easting (SFT)	1,027,359.0447				
Elevation (SFT)*	1,192.799				

Convergence Angle	0	33	43.3351728		
Scale Factor	0.999994185				
Elevation Adjust. Factor	0.9999429479				
Combined Adjust. Factor	0.9999371332				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHR Ref Mon # 2 ARRV Ref Mon # 3 ARM3, MOBR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY 2019 FOR JOB #R90095 FROM NGS 1ST ORDER BM J 6</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY 2019 FOR JOB #R90095 FROM NGS 1ST ORDER BM J 6
Comments			
ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY 2019 FOR JOB #R90095 FROM NGS 1ST ORDER BM J 6			

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station OR-01	Date Monumented 2/7/1997	Monumented By NGS	County MO / OREGON	Route N/A	Job Number: NA
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Zone Arkansas South	Zone Code	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum		Elevation Datum: NAVD 88
Northing (M)	#Error	Geoid Datum:
Easting (M)	#Error	Latitude
Elevation (M)*	229.400	Longitude
Northing (SFT)	#Type!	Ellipsoid Height (M):
Easting (SFT)	#Type!	Geoid Height (M):
Elevation (SFT)*	752.623	

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			0.9999640010
Combined Adjust. Factor			#Type!

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

THE STATION IS LOCATED NEAR THE SOUTH EDGE OF ALTON, MO., ALONG THE EAST SIDE OF STATE HIGHWAY 19, NORTHEAST OF THE NORTHEAST END OF A BRIDGE OVER TUCKER CREEK, JUST SOUTH OF A FIELD ENTRANCE AND GATE AND JUST WEST OF A FENCE AND WITNESS POST. OWNERSHIP--STATE OF MISSOURI. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 19 AND STATE ROUTE E NEAR THE SOUTH EDGE OF ALTON, GO NORTH, 0.32 KM (0.20 MI) ALONG HIGHWAY 19 CROSSING TUCKER CREEK TO A FIELD ENTRANCE ON THE RIGHT AND THE STATION, JUST SOUTH OF THE GATE. THE STATION IS AN ALUMINUM DNR GEOGRAPHIC REFERENCE SYSTEM SURVEY MARKER SET IN THE TOP OF A ROUND CONCRETE MONUMENT. IT IS, 28.3 M (92.8 FT) EAST OF THE HIGHWAY 19 CENTERLINE, 5.2 M (17.1 FT) SOUTH OF THE FIELD ENTRANCE CENTER, 2.8 M (9.2 FT) SOUTH OF A WITNESS POST, 1.2 M (3.9 FT) WEST OF A FENCE, AND THE MONUMENT IS ABOUT LEVEL WITH THE FIELD ENTRANCE AND FLUSH WITH THE GROUND SURFACE. BY R.G. HAYES.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1</p> <p>Ref Mon # 2</p> <p>Ref Mon # 3</p>	<p style="text-align: center;">Comments</p>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station OZARPORT	Date Monumented 1/1/1990	Monumented By NGS	County FRANKLIN	Route 96	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 132,196.4990		Latitude 35 30 39.1958568
Easting (M) 233,231.4560		Longitude 93 50 18.8107476
Elevation (M)* 189.880		Ellipsoid Height (M): 160.800
Northing (SFT) 433,714.6805		Geoid Height (M): -29.080
Easting (SFT) 765,193.5352		
Elevation (SFT)* 622.965		

Convergence Angle -1 4 11.4802027	Location Description
Scale Factor 0.999936751	<p>THE STATION IS LOCATED ABOUT 2.7 KM (1.65 MI) NORTH-NORTHWEST OF WEBB CITY, 2.2 KM (1.35 MI) NORTHWEST OF OZARK, 0.6 KM (0.35 MI) SOUTH OF INTERSTATE HIGHWAY 40, AT THE OZARK-FRANKLIN COUNTY AIRPORT, NEAR MIDFIELD BETWEEN THE RUNWAY AND PARALLEL TAXIWAY, ABOUT 75 M (246.1 FT) SOUTHWEST OF THE NORTHEAST END OF A SMALL HILL AND THE BEGINNING OF A ROW OF TREES. OWNERSHIP--CITY OF OZARK, PO BOX 196, OZARK AR 72749, PHONE 501-667-2236. AIRPORT MANAGER IS BILL GRAY, PO BOX 412, OZARK AR 72949, PHONE 501-667-4796. CALL HIM IN ADVANCE FOR ACCESS THROUGH THE LOCKED GATE. TO REACH THE STATION FROM THE UNDERPASS AT THE JUNCTION OF INTERSTATE HIGHWAY 40 AND STATE HIGHWAY 23, ABOUT 5 KM (3.10 MI) NORTHWEST OF OZARK, GO SOUTHERLY ON HIGHWAY 23 FOR 3.06 KM (1.90 MI) TO A PAVED ROAD LEFT. TURN LEFT, EAST, THEN NORTH ON THE ROAD FOR 0.8 KM (0.50 MI) TO THE AIRPORT ENTRANCE ROAD ON THE LEFT AND A LOCKED GATE AT THE APRON. TURN LEFT, NORTHWEST, PASSING THROUGH THE GATE, THEN BEAR RIGHT, NORTH-NORTHWEST ACROSS THE APRON FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF THE PARALLEL TAXIWAY. TURN RIGHT, NORTHEAST ALONG THE TAXIWAY FOR 0.22 KM (0.15 MI) TO THE STATION ON THE LEFT. THE</p>
Elevation Adjust. Factor 0.9999702025	
Combined Adjust. Factor 0.9999069554	

SUPERCEDED CONTROL				
Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1			0.00	0.0	AZ Mark Station ARPORT AZ MK (FG1958)
MK # 2			0.00	0.0	Geodetic Azimuth 045 47 42.7
MK # 3			0.00	0.0	Grid Azimuth 046 51 54.2

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station P 294	Date Monumented 1/1/1984	Monumented By NGS	County JOHNSON	Route 64	Job Number: 080320
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	123,857.4781	
Easting (M)	274,006.6170	
Elevation (M)*	135.824	
Northing (SFT)	406,355.7427	
Easting (SFT)	898,970.0426	
Elevation (SFT)*	445.616	

Convergence Angle	0	48	27.2182302
Scale Factor	0.999939012		
Elevation Adjust. Factor	0.9999786852		
Combined Adjust. Factor	0.9999176985		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	POWER POLE W/LIGHT	134	2.59	8.5	
MK # 2	CHAIN LINK FENCE CORNER	145	2.71	8.9	
MK # 3	WATER SIGN	315	22.25	73.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 RUSSPORT Ref Mon # 2 OKHV Ref Mon # 3 ARHR	NGS 1st Order Benchmark.

Vertical Determined By: 1st Order by NGS

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 26 30.3129096

Longitude 93 23 16.0862460

Ellipsoid Height (M): 106.775

Geoid Height (M): -29.049

Location Description

TO REACH THE STATION MARK FORM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 123, IN LAMAR, GO EAST FOR 0.25 FEET TO THE STATION MARK ON THE RIGHT, SOUTHWEST OF THE CENTERLINE OF THE HIGHWAY 41.0 FEET AND NORTHEAST 0.60 FEET OF A WITNESS POST. THE MARK IS A STAINLESS STEEL ROD DRIVEN TO REFUSAL AND SET IN A NGS LOGO CAP STAMPED "P 294 1984" FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station P 311	Date Monumented	Monumented By NGS	County CRAWFORD	Route 282	Job Number: 040456
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	131,890.9841	
Easting (M)	191,972.1090	
Elevation (M)*	205.582	
Northing (SFT)	432,712.3370	
Easting (SFT)	629,828.4943	
Elevation (SFT)*	674.480	

Convergence Angle	-1	20	3.8804027
Scale Factor	0.999937002		
Elevation Adjust. Factor	0.9999677385		
Combined Adjust. Factor	0.9999047426		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 282 AND THE MISSOURI RAILROAD, IN RUDY, GO SOUTH ON HIGHWAY 282 2.6 MILES TO THE STATION MARK ON THE RIGHT, 29.9' NORTHWEST OF THE CENTERLINE OF THE HIGHWAY AND 1.0' SOUTHEAST OF A WITNESS POST. (SEE NGS DATA SHEET FOR ADDITIONAL REFERENCES). ACCESS TO THE DATUM POINT IS THROUGH A 5" LOGO CAP.			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARFY, 170011</td> </tr> <tr> <td>Ref Mon # 2</td> <td>DQUA, 170012</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SAL1, 170013</td> </tr> </table>	Ref Mon # 1	ARFY, 170011	Ref Mon # 2	DQUA, 170012	Ref Mon # 3	SAL1, 170013	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARFY, 170011						
Ref Mon # 2	DQUA, 170012						
Ref Mon # 3	SAL1, 170013						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station P 314	Date Monumented 1/2/1990	Monumented By NOAA	County POINSETT	Route 63	Job Number: 001849
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	136,257.0382	
Easting (M)	536,314.4193	
Elevation (M)*	64.478	
Northing (SFT)	447,036.6328	
Easting (SFT)	1,759,558.2240	
Elevation (SFT)*	211.542	

Convergence Angle	0	52	29.7027423
Scale Factor	0.999936091		
Elevation Adjust. Factor	0.9999898814		
Combined Adjust. Factor	0.9999259730		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH IN LINE WOODEN BRACE POST	10	2.45	8.0
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 W 15 OFFSET	
Ref Mon # 2 MANIPORT	
Ref Mon # 3 MEM2	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 33 7.7079744
Longitude	90 29 47.2014744
Ellipsoid Height (M):	36.875
Geoid Height (M):	-27.603

Location Description
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 149, LOCATED IN MARKED TREE, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 9.04 KM (5.62 MI) TO THE STATION ON THE RIGHT. THE STATION IS 23.3 METERS EAST OF THE CENTER OF THE NORTHBOUND LANE OF U.S. HIGHWAY 63, 9.80 METERS NORTHEAST OF THE EAST END OF THE MOST NORTHERLY OF 2 CULVERTS, 0.50 METERS WEST OF A FIBERGLASS WITNESS POST AND 0.45 METER WEST OF AN AHTDN WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD WITH A PUNCH MARK ON TOP OF THE ROD WITH ACCESS THROUGH A 0.127 METER LOGA CAP STAMPED "P 314 1990". THE SHOT DISTANCE IS 614.415 METERS.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station P 314A	Date Monumented 10/2/2000	Monumented By AHTD	County POINSETT	Route 63	Job Number: 001849
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 135,647.4541		Latitude 35 32 47.9678496
Easting (M) 536,237.8605		Longitude 90 29 50.6103756
Elevation (M)* 72.318		Ellipsoid Height (M): 44.719
Northing (SFT) 445,036.6890		Geoid Height (M): -27.596
Easting (SFT) 1,759,307.0473		
Elevation (SFT)* 237.263		

Convergence Angle 0 52 27.7191057	Scale Factor 0.999936149
Elevation Adjust. Factor 0.9999886511	Combined Adjust. Factor 0.9999248008

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH IN TOP OF A METAL GUARD RAIL P <small>OST</small>	108	3.90	12.8
MK # 2	PUNCH IN TOP OF A METAL GUARD RAIL P <small>OST</small>	183	0.92	3.0
MK # 3	PUNCH IN TOP OF A METAL GUARD RAIL P <small>OST</small>	259	3.95	13.0

Area Reference Monuments (used for Processing) Ref Mon # 1 W 15 OFFSET Ref Mon # 2 MANIPORT Ref Mon # 3 MEM2	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station P 315	Date Monumented 1/1/1990	Monumented By NGS	County LAWRENCE	Route 63	Job Number: 100278
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	187,724.2110	
Easting (M)	497,142.5130	
Elevation (M)*	80.485	
Northing (SFT)	615,891.8489	
Easting (SFT)	1,631,041.7281	
Elevation (SFT)*	264.058	

Convergence Angle	0	37	37.6928721
Scale Factor	0.999964865		
Elevation Adjust. Factor	0.9999873694		
Combined Adjust. Factor	0.9999522349		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	36	1	14.2108644
Longitude	90	55	20.1295632
Ellipsoid Height:	52.606		
Grid Northing (Meters)	187,724.4752		
Grid Easting (Meters)	497,142.5253		

Location Description				
<p>THE STATION IS LOCATED ABOUT 32 KM (19.90 MI) NORTHWEST OF JONESBORO, 4 KM (2.50 MI) SOUTH OF WALNUT RIDGE, 3 KM (1.85 MI) SOUTHEAST OF HOXIE, ON A NORTH-SOUTH RIDGE BETWEEN A RAILROAD TRACK AND A CANAL, SOUTHWEST OF AND ACROSS A GRAVEL ROAD FROM A FARMHOUSE WITH SEVERAL GRAIN BINS. OWNERSHIP--MISSOURI PACIFIC RAILROAD. TO REACH FROM THE JUNCTION OF U.S. HIGHWAYS 63, 67 AND SOUTHWEST LINDSEY STREET IN EAST HOXIE, GO SOUTHEASTERLY ON HIGHWAY 63 FOR 3.70 KM (2.30 MI) TO A PAVED CROSSROAD (STATE HIGHWAY 91). CONTINUE AHEAD, SOUTHEAST ON HIGHWAY 63 FOR 2.01 KM (1.25 MI) TO THE JUNCTION OF COUNTY ROAD 630 ON THE LEFT AND THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE SET FLUSH WITH THE GROUND. IT IS 64.3 M (211.0 FT) SOUTHEAST OF THE CENTER OF COUNTY ROAD 630, 43.9 M (144.0 FT) NORTHEAST OF THE HIGHWAY CENTER, 15.6 M (51.2 FT) NORTHEAST OF THE NORTHEAST RAIL OF THE TRACKS, 7.7 M (25.3 FT) EAST-SOUTHEAST OF A POWER POLE WITH 8 WIRES, 2.3 M (7.5 FT) NORTHWEST OF A POWER POLE WITH LINES CROSSING THE HIGHWAY AND 0.1 M (0.3 FT) SOUTHEAST OF A</p>				

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	GUY POLE		128	2.29	7.5
MK # 2	TELEPHONE POLE		252	7.58	24.9
MK # 3	TELEPHONE JUNCTION BOX		26	43.57	142.9

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 SEDGWICK NW BASE</p> <p>Ref Mon # 2 PARAPORT</p> <p>Ref Mon # 3 160014</p>	<p style="text-align: center;">Comments</p> <p>THIS STATION IS A NGS BENCH MARK. FIRST ORDER, CLASS 2. ELEVATION = 80.485 METERS NAVD88 DATUM.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station P 315 AZ	Date Monumented 10/28/1997	Monumented By AHTD	County LAWRENCE	Route 63	Job Number: 100278
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 187,391.6039		Latitude 36 1 3.3072240
Easting (M) 497,435.3040		Longitude 90 55 8.5828728
Elevation (M)* 78.447		Ellipsoid Height (M): 51.069
Northing (SFT) 614,800.6205		Geoid Height (M): -27.874
Easting (SFT) 1,632,002.3265		
Elevation (SFT)* 257.372		

Convergence Angle 0 37 44.4122332	Location Description
Scale Factor 0.999964465	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 91, LOCATED ABOUT 3.86 KM. (2.40 MI.) SOUTHEAST OF HOXIE, GO SOUTHEAST ON U.S. 63 FOR 2.57 KM. (1.6 MI.) TO THE STATION ON THE RIGHT. 26.93 METERS SOUTHEAST OF THE CENTER OF A FIELD ENTRANCE, 23.259 METERS SOUTHWEST OF THE CENTER OF U.S. 63 AND 0.30 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "P 315 AZ 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 0.9999876893	
Combined Adjust. Factor 0.9999521547	

SUPERCEDED CONTROL			
Horizontal Datum		Latitude	
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	TELEPHONE JUNCTION BOX	125	3.99	13.1		P 315
MK # 2	NORTHWEST END OF METAL PIPE	316	30.79	101.0		319 17 44.10558
MK # 3						318 39 59.65786

Area Reference Monuments (used for Processing) Ref Mon # 1 SEDGWICK NW BASE Ref Mon # 2 PARAPORT Ref Mon # 3 160014	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station PAGIS 1001	Date Monumented 1/1/1990	Monumented By NGS	County PULASKI	Route N/A	Job Number: NA
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	625,888.9699	
Easting (M)	383,838.0240	
Elevation (M)*	73.400	
Northing (SFT)	2,053,437.3954	
Easting (SFT)	1,259,308.5837	
Elevation (SFT)*	240.813	

Convergence Angle	0	5	55.4485405
Scale Factor	0.999986451		
Elevation Adjust. Factor	0.9999884813		
Combined Adjust. Factor	0.9999749324		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAYS 30 AND 440 IN LITTLE ROCK, GO EAST ON INTERSTATE HIGHWAY 440 FOR ABOUT 7.3 KM (4.55 MI), THEN TURN SOUTH ON FOURCHE DAM PIKE AND GO 0.9 KM (0.55 MI) TO FRAZIER PIKE ROAD. TURN LEFT AND GO EAST, THEN SOUTH FOR 3.7 KM (2.30 MI) TO THE ENTRANCE ROAD TO THE FOURCHE SEWAGE TREATMENT PLANT (BIRDWELL DRIVE). THE STATION IS IN THE NORTHEAST CORNER OF THE INTERSECTION OF FRAZIER PIKE ROAD AND THE ENTRANCE TO THE FOURCHE SEWAGE TREATMENT PLANT, APPROXIMATELY 20.4 METERS (66.9 FT) FROM THE CENTERLINE OF THE ENTRANCE ROAD AND 31.2 METERS (102.4 FT) FROM THE CENTERLINE OF FRAZIER PIKE ROAD. FOR ADDITIONAL INFORMATION CONTACT PAUL WALLA, ASPS, PHONE 501-756-2772.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1			0.00	0.0	PAGIS 2001 (AE3003)	
MK # 2			0.00	0.0	Geodetic Azimuth	343 32 16.3
MK # 3			0.00	0.0	Grid Azimuth	343 38 11.7

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station PAGIS 1004	Date Monumented 1/1/1990	Monumented By PAGIS	County PULASKI	Route 630	Job Number: 060816
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	630,619.9940				
Easting (M)	369,343.1730				
Elevation (M)*	112.537				
Northing (SFT)	2,068,959.0970				
Easting (SFT)	1,211,753.3934				
Elevation (SFT)*	369.215				

Convergence Angle	0	11	14.5707351
Scale Factor	0.999995341		
Elevation Adjust. Factor	0.9999823396		
Combined Adjust. Factor	0.9999776807		

SUPERCEDED CONTROL				
Horizontal Datum	NAD 83 (1986)			
Latitude	34	44	43.6215984	
Longitude	92	20	5.2389996	
Ellipsoid Height:	84.978			
Grid Northing (Meters)	630,620.3754			
Grid Easting (Meters)	369,343.6147			

Location Description				
<p>INTERSTATE HIGHWAYS 430 AND 630, ON THE WEST SIDE OF LITTLE ROCK, GO EAST ON INTERSTATE 630 FOR 3.2 M (10.5 FT) TO EXIT 4, FAIR PARK BOULEVARD. FOLLOW OFF RAMP FOR 0.05 MI (0.08 KM) TO FAIR PARK BOULEVARD. TURN LEFT, NORTH ON FAIR PARK BOULEVARD FOR 0.05 MI (0.08 KM) TO THE STATION ON THE LEFT. THE STATION IS 96.3 FT (29.4 M) SOUTH-SOUTHEAST OF THE SOUTH EDGE OF THE SOUTH CURB OF THE ENTRANCE RAMP TO WESTBOUND INTERSTATE HIGHWAY 630, 54.0 FT (16.5 M) WEST-NORTHWEST OF THE NORTH END OF THE WEST CONCRETE BRIDGE GUARDRAIL, 48.6 FT (14.8 M) WEST OF THE WEST EDGE OF THE WEST CURB OF FAIR PARK BOULEVARD, 34.3 FT (10.5 M) WEST-SOUTHWEST OF THE SOUTHWEST CORNER OF A 4 FT (1.2 M) BY 6 FT (1.8 M) CONCRETE SLAB FOR AN ELECTRIC JUNCTION BOX, 28.4 FT (8.7 M) EAST-SOUTHEAST FROM A 12-CM PINE TREE AND 2.8 FT (0.9 M) NORTH OF A METAL WITNESS POST AND FIBERGLASS WITNESS POST. THE STATION IS A ALUMINUM DISK SET INTO THE TOP OF A 5-INCH ROUND CONCRETE POST FLUSH WITH THE GROUND.</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SIGNAL LIGHT POLE	100	15.63	51.3
MK # 2	CENTER OF SOUTH SIDE OF TELEPHONE BOX	65	11.71	38.4
MK # 3	0.15 METER PINE	347	11.63	38.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ADAMS 2	ELEVATION BY THREE WIRE LEVELING FROM STATION 600027A ELEVATION = 123.691 METERS.
Ref Mon # 2 ROCKPORT	
Ref Mon # 3 PAGIS 1004	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station PAGIS 1005	Date Monumented 1/2/1999	Monumented By UAM	County PULASKI	Route 430	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	51,322.5289	
Easting (M)	364,512.0540	
Elevation (M)*	114.963	
Northing (SFT)	168,380.6636	
Easting (SFT)	1,195,903.2972	
Elevation (SFT)*	377.174	

Convergence Angle	0	13	32.3202125
Scale Factor	1.000030004		
Elevation Adjust. Factor	0.9999819589		
Combined Adjust. Factor	1.0000119623		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ADAMS 2</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ROCKPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>AHTD LR 1</td> </tr> </table>	Ref Mon # 1	ADAMS 2	Ref Mon # 2	ROCKPORT	Ref Mon # 3	AHTD LR 1	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ADAMS 2							
Ref Mon # 2	ROCKPORT							
Ref Mon # 3	AHTD LR 1							
Comments								

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station PAGIS 2001	Date Monumented 1/1/1990	Monumented By NGS	County PULASKI	Route N/A	Job Number: NA,BB0611
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	627,210.7920	
Easting (M)	383,449.9070	
Elevation (M)*	77.638	
Northing (SFT)	2,057,774.0734	
Easting (SFT)	1,258,035.2365	
Elevation (SFT)*	254.718	

Convergence Angle	0	6	4.0356441
Scale Factor	0.999988897		
Elevation Adjust. Factor	0.9999878162		
Combined Adjust. Factor	0.9999767133		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> PREVIOUS ELEV. (77.600 m) FROM UNDOCUMENTED SOURCE ELEV. BY S5112 IN JUNE 2013 FOR JOB #BB0611 DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM D 287. <div style="text-align: right;">**UPDATED</div> </td> </tr> </table>	Comments	PREVIOUS ELEV. (77.600 m) FROM UNDOCUMENTED SOURCE ELEV. BY S5112 IN JUNE 2013 FOR JOB #BB0611 DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM D 287. <div style="text-align: right;">**UPDATED</div>
Comments			
PREVIOUS ELEV. (77.600 m) FROM UNDOCUMENTED SOURCE ELEV. BY S5112 IN JUNE 2013 FOR JOB #BB0611 DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM D 287. <div style="text-align: right;">**UPDATED</div>			

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	34 42 54.1283040
Longitude	92 10 50.4229080
Ellipsoid Height (M):	51.040
Geoid Height (M):	-26.550

Location Description
TO REACH THE STATION FROM THE INTERSECTION OF FOURCHE DAM PIKE AND LINDSEY DRIVE, GO EAST FOR APPROXIMATELY 0.50 MI (0.80 KM) ON LINDSEY DRIVE. THE STATION IS ON TOP OF LEVEE ON THE SOUTHEAST SIDE OF LINDSEY DRIVE, APPROXIMATELY 38.8 FT (11.8 M) FROM THE CENTERLINE OF LINDSEY DRIVE, APPROXIMATELY 91.8 FEET (28.0 M) EAST OF THE EAST ENTRANCE TO THE MID-CONTINENT FUEL COMPANY INC. (8401 LINDSEY). FOR ADDITIONAL INFORMATION CONTACT PAUL WALLA, ASPS, PHONE 501-756-2772.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station PAGIS 2043	Date Monumented 1/1/1990	Monumented By NGS	County PULASKI	Route N/A	Job Number: NA
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	622,719.0648	
Easting (M)	366,233.4822	
Elevation (M)*	92.400	
Northing (SFT)	2,043,037.4651	
Easting (SFT)	1,201,551.0162	
Elevation (SFT)*	303.149	

Convergence Angle	0	12	22.3698876
Scale Factor	0.999980675		
Elevation Adjust. Factor	0.9999854996		
Combined Adjust. Factor	0.9999661749		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>THE STATION IS LOCATED IN THE SOUTHWEST PART OF LITTLE ROCK, AT THE SOUTHEAST CORNER OF PRODUCTION DRIVE AND INTERSTATE HIGHWAY 30 ACCESS ROAD, IN PUBLIC RIGHT-OF-WAY. TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 30 AND BASELINE ROAD IN THE SOUTHWEST PART OF LITTLE ROCK, GO NORTHEASTERLY ON THE SOUTH ACCESS ROAD OF INTERSTATE HIGHWAY 30 FOR APPROXIMATELY 1.1 KM (0.70 MI) TO THE STATION. THE STATION IS APPROXIMATELY 13.7 METERS (44.9 FT) EAST OF THE CENTERLINE OF PRODUCTION DRIVE, 16.2 METERS (53.1 FT) SOUTH OF THE CENTERLINE OF THE SOUTH ACCESS ROAD FOR INTERSTATE HIGHWAY 30, IN A GRASSY AREA APPROXIMATELY 15.2 METERS (49.9 FT) NORTHWEST OF THE BUILDING LOCATED AT 9621 I-30. FOR ADDITIONAL INFORMATION CONTACT PAUL WALLA, ASPS, PHONE 501-765-2772.</p>				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	
MK # 2			0.00	0.0	
MK # 3			0.00	0.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station PAGIS 2074	Date Monumented 1/1/1990	Monumented By NGS	County PULASKI	Route N/A	Job Number: NA
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	634,218.5350	
Easting (M)	357,610.0710	
Elevation (M)*	172.300	
Northing (SFT)	2,080,765.3102	
Easting (SFT)	1,173,259.0413	
Elevation (SFT)*	565.288	

Convergence Angle	0	15	33.1002784
Scale Factor	1.000002433		
Elevation Adjust. Factor	0.9999729612		
Combined Adjust. Factor	0.9999753942		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	
MK # 2			0.00	0.0	
MK # 3			0.00	0.0	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station PAGIS 2092	Date Monumented 1/1/1990	Monumented By AHTD	County PULASKI	Route 10	Job Number: 060884
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 60,218.8590		Latitude 34 52 28.0464888
Easting (M) 342,274.7610		Longitude 92 37 52.9490352
Elevation (M)* 102.559		Ellipsoid Height (M): 75.116
		Geoid Height (M): -27.443

Northing (SFT) 197,568.0399	Easting (SFT) 1,122,946.4450	Location Description
Elevation (SFT)* 336.479		<p>TO REACH THE STAION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 113, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF WILLIAMS JUNCTION, GO EAST ON STATE HIGHWAY 10 FOR 3.19 KM (1.98 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.60 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10, 1.00 METERS SOUTH OF A FIBERGLASS WITNESS POST AND 0.50 METERS NORTH OF AN AHTD WITNESS POST. THE STATION MARK IS AN ALUMINUM CAP SET IN CONCRETE STAMPED "PAGIS 2092 1990".</p>
Convergence Angle 0 22 2.6270617		
Scale Factor 1.000012100		
Elevation Adjust. Factor 0.9999839054		
Combined Adjust. Factor 0.9999960052		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station 600037
MK # 2					Geodetic Azimuth 252 56 11.78460
MK # 3					Grid Azimuth 253 18 14.45444

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ROCKPORT	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM USC&GS BENCHMARK "TT 22 RWS" ELEVATION = 89.941 METERS NAVD88 DATUM.
Ref Mon # 2 SALIPOINT	
Ref Mon # 3 PJTC CAMPUS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station PAGIS 2093	Date Monumented 1/1/1990	Monumented By AHTD	County PULASKI	Route 10	Job Number: 060884
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	60,354.2760	
Easting (M)	332,431.7160	
Elevation (M)*	121.752	
Northing (SFT)	198,012.3205	
Easting (SFT)	1,090,653.0549	
Elevation (SFT)*	399.448	

Convergence Angle	0	25	48.1708439
Scale Factor	1.000011971		
Elevation Adjust. Factor	0.9999808935		
Combined Adjust. Factor	0.9999928643		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	199	7.55	24.8
MK # 2	0.50 METER RCP	35	7.88	25.9
MK # 3	GUY POLE	70	20.23	66.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ROCKPORT	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM T-5 REBAR/CAP ON JOB 001837 ELEVATION = 122.691 METERS NAVD88 DATUM.
Ref Mon # 2 SALIPOINT	
Ref Mon # 3 PJTC CAMPUS	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
PAGIS UALR 16		PAGIS	PULASKI	630	060816,061381

Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	629,980.4751	
Easting (M)	374,316.2947	
Elevation (M)*	105.670	

Northing (SFT)	2,066,860.9421	
Easting (SFT)	1,228,069.3769	
Elevation (SFT)*	346.686	

Convergence Angle	0	9	25.1045502
Scale Factor	0.999994127		
Elevation Adjust. Factor	0.9999834172		
Combined Adjust. Factor	0.9999775443		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	34	44	23.3539440
Longitude	92	16	49.6563204
Ellipsoid Height:	78.166		
Grid Northing (Meters)	629,980.8733		
Grid Easting (Meters)	374,316.7190		

Location Description

THE STATION IS LOCATED IN THE SOUTHEASTERN QUADRANT OF THE I-630 AND STATE STREET INTERCHANGE. 12.60 METERS NORTH OF THE CENTER OF A PAVED STREET, 7.85 METERS EAST OF THE CENTER OF STATE STREET AND 1.675 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS AN ALUMINUM CAP SET IN A CONCRETE POST.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	"X" CUT IN SOUTHEAST CORNER OF BRIDG	9	3.30	10.8
MK # 2	"X" CUT IN SOUTHWEST CORNER OF BRID	300	19.15	62.8
MK # 3	LIGHT POLE	280	20.40	66.9

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	PAGIS 1004

Comments
ELEVATION BY THREE WIRE LEVELING USING A.H.T.D. BM DISK SET IN THE NW WINGWALL OF THE STATE STREET BR. OVER I-630. ELEV = 100.484 m NAVD88 DATUM. BM ELEVATION WAS ARRIVED AT BY USING VERTCON TO CONVERT FROM NGVD29 TO NAVD88 DATUM.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station PARAPORT	Date Monumented 1/2/2000	Monumented By NGS	County Greene	Route 49	Job Number: 100632
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	192,700.8037	
Easting (M)	534,163.9357	
Elevation (M)*	87.996	

Northing (SFT)	632,219.2201	
Easting (SFT)	1,752,502.8457	
Elevation (SFT)*	288.700	

Convergence Angle	0	51	59.7453623
Scale Factor	0.999970490		
Elevation Adjust. Factor	0.9999861907		
Combined Adjust. Factor	0.9999566812		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	3	39.9982799
Longitude	90	30	38.6848699
Ellipsoid Height:	59.813		
Grid Northing (Meters)	192,700.7953		
Grid Easting (Meters)	534,163.9030		

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 MODP Ref Mon # 3 MOKE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>23. ft south of CL Greene Co. rd. 842, 33. ft east of the east rail., 5.ft north of w.p. Position determined by static GPS observation in May 2015 by crew s5102.</td> </tr> </table>	Comments	23. ft south of CL Greene Co. rd. 842, 33. ft east of the east rail., 5.ft north of w.p. Position determined by static GPS observation in May 2015 by crew s5102.
Comments			
23. ft south of CL Greene Co. rd. 842, 33. ft east of the east rail., 5.ft north of w.p. Position determined by static GPS observation in May 2015 by crew s5102.			

Location Description
TO REACH FROM THE JUNCTION OF U.S.HIGHWAYS 49 AND 412 IN PARAGOULD, GO WEST ON U.S.HIGHWAY 412 FOR 1.11 KM (0.69 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO NORTH ON THE PAVED ROAD FOR 0.46 KM (0.29 MI) TO A PAVED ROAD ON THE RIGHT. TURN A VERY SHARP RIGHT AND GO EAST ON THE PAVED ROAD FOR 0.1 KM (0.1 MI) TO AN APRON, TAXIWAY AND THE AIRPORT OFFICE ON THE RIGHT. CONTINUE EAST ACROSS APRON AND TAXIWAY FOR 0.19 KM (0.12 MI) TO THE RUNWAY AND THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE IN THE TOP OF A 5/8 INCH STAINLESS STEEL ROD, ENCASED IN A 5-INCH PVC PIPE WITH A NGS LOGO CAP. IT IS SET 42.25 M (138.62 FT) SOUTHEAST OF THE SOUTHEAST EDGE OF A APRON, 37.0 M (121.4 FT) NORTHWEST FROM RUNWAY CENTERLINE, 21.15M (69.39 FT) NORTH-NORTHEAST FROM TAXIWAY CENTERLINE AND 13.7 M (44.9 FT) NORTH OF A BLUE TAXIWAY LIGHT.

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
PJTC CAMPUS	8/19/1997	ARGLS	CONWAY	I40	NA

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (2002)	
Northing (M)	93,358.9459	
Easting (M)	333,872.1742	
Elevation (M)*	103.705	
Northing (SFT)	306,295.1417	
Easting (SFT)	1,095,378.9582	
Elevation (SFT)*	340.238	

Convergence Angle	0	25	20.7426589
Scale Factor	0.999961578		
Elevation Adjust. Factor	0.9999837256		
Combined Adjust. Factor	0.9999453042		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	35	10	21.5435172
Longitude	92	43	33.4134516
Ellipsoid Height:	75.170		
Grid Northing (Meters)	93,358.9481		
Grid Easting (Meters)	333,872.1590		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	TOP OPERATING NUT OF A FIRE HYDRANT		WEST	16.30	53.5
MK # 2	CENTERLINE OF AN ASPHALT DRIVE		SOUTH	19.40	63.6
MK # 3	DRAINAGE SWALE		WEST	2.70	8.9

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station PLEASANT	Date Monumented 1/1/1941	Monumented By NGS	County HOT SPRING	Route 7	Job Number: 061021
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	587,601.4909	
Easting (M)	293,537.0920	
Elevation (M)*		
Northing (SFT)	1,927,822.5581	
Easting (SFT)	963,046.2760	
Elevation (SFT)*		

Convergence Angle	0	38	51.8101137
Scale Factor	0.999933845		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	ARKANSAS FORESTRY COMM LOT 5 4	255 18	10.00	32.8
MK # 2	PLEASANT RM1	255 25	8.37	27.5
MK # 3	PLEASANT RM2	326 00	14.46	47.5

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 150px;"></td> </tr> </table>	Comments	
Comments			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station POCAPORT	Date Monumented 1/1/1990	Monumented By NGS	County RANDOLPH	Route 67	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	212,639.4100	
Easting (M)	493,864.5710	
Elevation (M)*	82.860	
Northing (SFT)	697,634.4643	
Easting (SFT)	1,620,287.3467	
Elevation (SFT)*	271.850	

Convergence Angle	0	36	27.6571571
Scale Factor	1.000002424		
Elevation Adjust. Factor	0.9999869967		
Combined Adjust. Factor	0.9999894207		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>THE STATION IS LOCATED ABOUT 21 KM (13.05 MI) NORTHEAST OF IMBODEN, 19 KM (11.80 MI) NORTH OF WALNUT RIDGE, 3 KM (1.85 MI) SOUTHEAST OF POCAHONTAS, AT NICK WILSON FIELD, IN THE SOUTHWEST QUADRANT OF THE JUNCTION OF THE RUNWAY AND MIDFIELD CONNECTOR, EAST OF AND ACROSS THE APRON AND PARALLEL TAXIWAY FROM THE ADMINISTRATION BUILDING. OWNERSHIP--CITY OF POCAHONTAS, 2006 AIRWAYS LANE, POCAHONTAS AR 72455. AIRPORT MANAGER IS GREG SWINK, PHONE 501-892-5606, 869-2260. TO REACH FROM THE JUNCTION OF U.S. HIGHWAYS 62 AND 67 IN POCAHONTAS, GO SOUTH ON HIGHWAY 67 FOR 1.87 KM (1.15 MI) TO THE PAVED AIRPORT ENTRANCE ROAD ON THE LEFT. TURN LEFT, EAST ON THE ROAD FOR 0.11 KM (0.05 MI) TO A GATE ON THE NORTH SIDE OF THE AIRPORT OFFICE AND FIRE DEPARTMENT. PASS THROUGH THE GATE AND BEAR RIGHT, EAST-SOUTHEAST ACROSS THE APRON FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF THE PARALLEL TAXIWAY AND A CONNECTOR TAXIWAY AND THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD IN A 2.5 CM GREASE-FILLED SLEEVE 90 CM LONG ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE SET FLUSH WITH THE GROUND. IT IS 43.3 M (142.1</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	APORT AZ MK (GE1194)
MK # 2			0.00	0.0	Geodetic Azimuth 182 34 13.5
MK # 3			0.00	0.0	Grid Azimuth 181 57 45.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
OCAPORT AZ M	1/1/1990	NGS	RANDOLPH	67	100877

Zone	Zone Code		
Arkansas North	301		
Horizontal Datum	NAD83 (2011)		
Northing (M)	212,066.4270	0.0020	
Easting (M)	493,844.9816	0.0020	
Elevation (M)*	82.600		

Northing (SFT)	695,754.6026		
Easting (SFT)	1,620,223.0771		
Elevation (SFT)*	270.997		

Convergence Angle	0	36	27.0590372
Scale Factor	1.000001388		
Elevation Adjust. Factor	0.9999870375		
Combined Adjust. Factor	0.9999884255		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description
<p>STATION IS LOCATED ABOUT 20.9 KM (13.0 MI) NORTHEAST OF IMBODEN, 19.3 KM (12.0 MI) NORTH OF WALNUT RIDGE, AND 3.1 KM (1.9 MI) SOUTHEAST OF POCAHONTAS. AT THE POCAHONTAS MUNICIPAL AIRPORT. TO REACH FROM THE JUNCTION OF U.S. HIGHWAYS 62 AND 67 IN POCAHONTAS GO SOUTH ON U.S. HIGHWAY 67 FOR 1.87 KM (1.16 MI) TO A PAVED ROAD ON THE LEFT. TURN LEFT AND GO EAST ON THE AIRPORT ENTRANCE ROAD FOR 100 FT (30.5 M) TO A PAVED ROAD ON THE LEFT. TURN LEFT AND GO NORTHERLY ON THE PAVED ROAD PASSING AROUND THE NORTH END OF A HANGER FOR 0.17 KM (0.11 MI) TO AN APRON. TURN RIGHT AND GO SOUTH ON THE APRON FOR 0.14 KM (0.09 MI) TO A TAXIWAY ON THE LEFT. TURN LEFT AND GO EAST ON TAXIWAY FOR 0.08 KM (0.05 MI) TO THE RUNWAY. TURN RIGHT AND SOUTH ON THE RUNWAY FOR 0.60 KM (0.37 MI) TO THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE IN THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 5 INCH PVC PIPE WITH A NGS LOGO CAP, IT IS 12.8 M (42.0 FT) EAST OF A RIGHT OF WAY FENCE, 11.6 M (38.1 FT) WEST OF THE WEST EDGE OF A TURN AROUND.</p>

Location Reference Marks

Area Reference Monuments (used for Processing)	
Ref Mon # 1	MODP
Ref Mon # 2	ARPG
Ref Mon # 3	ARBT

Comments
Elevation from NGS datasheet.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station POCOLA	Date Monumented 1/1/1993	Monumented By NGS	County OK / LEFLORE	Route N/A	Job Number: NA
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1986)
Northing (M)	108,230.9611
Easting (M)	176,549.5430
Elevation (M)*	164.600
Northing (SFT)	355,087.7449
Easting (SFT)	579,229.6257
Elevation (SFT)*	540.025

Convergence Angle	-1	25	46.2537541
Scale Factor	0.999949607		
Elevation Adjust. Factor	0.9999741696		
Combined Adjust. Factor	0.9999237779		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>STATION IS LOCATED ABOUT 4 KM (2.50 MI) NORTH-NORTHEAST OF POCOLA, 2 KM (1.25 MI) EAST OF THE ARKANSAS STATE LINE, ALONG A ROAD PARALLELING HIGHWAYS 112 AND 271, NEAR THE ENTRANCE TO THE TRI-STATE SPEEDWAY, ALONG A FENCE SEPARATING THE ROAD FROM A BANK EDGE, ABOUT 20 M (65.6 FT) ABOVE THE HIGHWAYS, IN THE NORTHEAST 1/4 OF SECTION 12, T 11 N, R 23 E. OWNERSHIP--OKLAHOMA DEPARTMENT OF TRANSPORTATION. TO REACH FROM THE JUNCTION OF U.S. HIGHWAY 271 AND STATE HIGHWAYS 9 AND 112 (N. POCOLA BLVD), ABOUT 3 KM (1.85 MI) NORTH OF POCOLA, GO EAST ON HIGHWAYS 112 AND 271 FOR 1.08 KM (0.65 MI) TO THE BRIDGE OVER CEDAR CREEK. CONTINUE AHEAD, EAST, FOR 0.66 KM (0.40 MI) TO THE SECOND OF TWO PAVED ROADS LEFT. TURN LEFT, NORTHWEST, THEN NORTHEAST, UPHILL FOR 0.50 KM (0.30 MI) TO THE STATION ON THE LEFT, 0.06 KM (0.05 MI) BEFORE A PAVED ROAD LEFT. STATION MARK IS A SURVEY DISK SET IN THE EASTERN END OF A EXPOSED BEDROCK RIDGE. IT IS 15.8 M (51.8 FT) NORTH-NORTHWEST OF, AND 2 M (6.6 FT) HIGHER THAN THE ROAD CENTER, 1.55 M (5.09 FT) EAST-NORTHEAST OF A METAL WITNESS POST, 30.2 M (99.1 FT) WEST-SOUTHWEST OF A HIGH VOLTAGE POWERLINE POLE, 19.8 M (65.0 FT) SOUTHWEST OF 16-INCH</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station Q 189	Date Monumented 1/1/1956	Monumented By USC&GS	County CLAY	Route 62	Job Number: R00084
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 230,422.1171		Latitude 36 23 49.1290836
Easting (M) 560,967.5400		Longitude 90 12 20.3361696
Elevation (M)* 121.126		Ellipsoid Height (M): 91.778
		Geoid Height (M): -29.348

Northing (SFT) 755,976.5625		
Easting (SFT) 1,840,441.0042		
Elevation (SFT)* 397.394		

Convergence Angle 1 2 38.8727503		
Scale Factor 1.000036453		
Elevation Adjust. Factor 0.9999809917		
Combined Adjust. Factor 1.0000174440		

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	157	5.40	17.7
MK # 2	12" METAL PIPE	200	5.80	19.0
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CORNPORT	Cross Reference Job: R00119 and R00125
Ref Mon # 2 HOPEWELL	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station Q 205	Date Monumented 1/1/1962	Monumented By CGS	County WHITE	Route 13	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	108,572.0631	
Easting (M)	430,898.1130	
Elevation (M)*	125.198	
Northing (SFT)	356,206.8437	
Easting (SFT)	1,413,704.8924	
Elevation (SFT)*	410.754	

Convergence Angle	0	11	51.7817602
Scale Factor	0.999947201		
Elevation Adjust. Factor	0.9999803527		
Combined Adjust. Factor	0.9999275548		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>THE STATION IS LOCATED ABOUT 11 KM (6.85 MI) NORTHEAST OF SEARCY, 3 KM (1.85 MI) NORTHWEST OF JUDSONIA, 2 KM (1.25 MI) NORTHWEST OF U.S. HIGHWAY 67, NORTHEAST OF AND ACROSS THE HIGHWAY FROM A TWO STORY LOG HOME, IN THE SOUTHEAST QUADRANT OF THE JUNCTION OF STATE HIGHWAYS 13 AND 157, AND IN THE ROAD RIGHT-OF-WAY. OWNERSHIP--ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT. TO REACH THE STATION FROM THE OVERPASS AT THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 157 (EXIT 51) ABOUT 6 KM (3.70 MI) SOUTHWEST OF BALD KNOB, GO NORTHWEST AND WEST ON HIGHWAY 157 FOR 1.72 KM (1.05 MI) TO A PAVED CROSSROAD (STATE HIGHWAY 13). TURN LEFT, SOUTH ON HIGHWAY 13 FOR 0.11 KM (0.05 MI) TO THE STATION ON THE LEFT. THE STATION IS SET NEAR THE NORTH END OF THE TOP OF A CONCRETE HEADWALL OF A CULVERT UNDER THE HIGHWAY AND IS FLUSH WITH THE GROUND. IT IS 37.6 M (123.4 FT) SOUTH OF THE EXTENDED CENTER OF A PAVED DRIVE TO A BRICK HOUSE WITH A SEPARATE TWO CAR GARAGE, 11.5 M (37.7 FT) EAST-SOUTHEAST OF A POWERLINE POLE, 5.1 M (16.7 FT) EAST OF AND ABOUT LEVEL WITH THE HIGHWAY CENTER, 4.0 M (13.1 FT) NORTH OF THE WEST ONE OF THREE LEGS OF A STEEL HIGHWAY SIGN, 4.0 M (13.1 FT) WEST OF A</p>				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	
MK # 2			0.00	0.0	
MK # 3			0.00	0.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station Q 28	Date Monumented 1/1/1932	Monumented By NGS	County CRAWFORD	Route NA	Job Number: 040456, 4594
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	125,702.0860	
Easting (M)	187,963.8730	
Elevation (M)*	140.247	
Northing (SFT)	412,407.5938	
Easting (SFT)	616,678.1400	
Elevation (SFT)*	460.127	

Convergence Angle	-1	21	33.0164611
Scale Factor	0.999938928		
Elevation Adjust. Factor	0.9999779912		
Combined Adjust. Factor	0.9999169205		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order by NGS
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 26 37.3692084
Longitude	94 20 8.7021708
Ellipsoid Height (M):	110.539
Geoid Height (M):	-29.708

Location Description
IN VAN BUREN AT THE JUNCTION OF 22nd STREET AND ALMA BOULEVARD, 40.4' SOUTH OF THE CENTERLINE OF THE BOULEVARD AND SET IN A CONCRETE POST 0.2' ABOVE THE GROUND.

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY, 170011 Ref Mon # 2 DQUA, 170012 Ref Mon # 3 SAL1, 170013	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station Q 292	Date Monumented 1/1/1984	Monumented By NGS	County POPE	Route 64	Job Number: 080295
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	106,372.1601	
Easting (M)	294,345.0650	
Elevation (M)*	110.274	
Northing (SFT)	348,989.3286	
Easting (SFT)	965,697.1008	
Elevation (SFT)*	361.790	

Convergence Angle	0	40	33.2098867
Scale Factor	0.999949357		
Elevation Adjust. Factor	0.9999826947		
Combined Adjust. Factor	0.9999320526		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	GUY	115	0.76	2.5	AZ Mark Station 580021
MK # 2	SE CORNER OF BLK BLDGING	4	26.21	86.0	Geodetic Azimuth 288 09 52
MK # 3	SW CORNER OF BRICK BLDGING	65	23.95	78.6	Grid Azimuth 288 50 25

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	NGS 1st Order Mark
Ref Mon # 2 ARFY	
Ref Mon # 3 DQUA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station Q 299	Date Monumented 1/1/1985	Monumented By AHTD	County SCOTT	Route 71	Job Number: R40024
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1997)
Northing (M)	68,373.6590
Easting (M)	207,964.5690
Elevation (M)*	201.529
Northing (SFT)	224,322.5796
Easting (SFT)	682,297.0901
Elevation (SFT)*	661.183

Convergence Angle	-1	13	23.3843174
Scale Factor	1.000000433		
Elevation Adjust. Factor	0.9999683745		
Combined Adjust. Factor	0.9999688075		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	34	55	52.1659200
Longitude	94	6	7.2535896
Ellipsoid Height:	170.356		
Grid Northing (Meters)	68,373.9128		
Grid Easting (Meters)	207,964.8384		

Location Description			
<p>THE STATION IS LOCATED ABOUT 32 KM (19.90 MI) EAST OF THE ARKANSAS-OKLAHOMA BORDER, 4 KM (2.50 MI) NORTH OF WALDRON, ABOUT 100 M (328.1 FT) NORTH OF THE JUNCTION OF U.S. HIGHWAYS 71 AND 71B, AND IN THE HIGHWAY RIGHT-OF-WAY. OWNERSHIP--ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT. TO REACH FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 80 ON THE WEST SIDE OF WALDRON, GO NORTH ON HIGHWAY 71 FOR 3.68 KM (2.30 MI) TO THE JUNCTION OF HIGHWAY 71B ON THE RIGHT. CONTINUE NORTH ON HIGHWAY 71 FOR 0.16 KM (0.10 MI) TO THE STATION ON THE RIGHT JUST BEFORE A FIELD ENTRANCE ROAD. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE SET FLUSH WITH THE GROUND. IT IS 29.5 M (96.8 FT) EAST OF THE EXTENDED CENTERLINE OF THE HIGHWAY (THE HIGHWAY HERE HAS A DIVIDING ISLAND BETWEEN THE NORTH AND SOUTHBOUND LANES OF THE HIGHWAY), 19.5 M (64.0 FT) NORTH OF POWERLINE POLE NUMBER 100-91, 16.2 M (53.1 FT) EAST-SOUTHEAST OF THE SOUTH END OF A CULVERT, 9.6 M (31.5 FT) SOUTH OF THE CENTER OF THE FIELD ENTRANCE ROAD, 0.4 M (1.3 FT) WEST OF A FENCE, 0.3 M (1.0 FT) SOUTHWEST OF</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: PINNACLE</p> <p>Ref Mon # 2: MENAPORT</p> <p>Ref Mon # 3: ABBOTT</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station Q 313	Date Monumented 1/1/1990	Monumented By NOAA	County SHARP	Route 63	Job Number: 050064
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	219,685.8131	
Easting (M)	447,994.4380	
Elevation (M)*	114.362	
Northing (SFT)	720,752.5385	
Easting (SFT)	1,469,795.0853	
Elevation (SFT)*	375.203	

Convergence Angle	0	18	39.5060047
Scale Factor	1.000016562		
Elevation Adjust. Factor	0.9999820532		
Combined Adjust. Factor	0.9999986149		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>THE STATION IS LOCATED ABOUT 2 KM (1.25 MI) SOUTHEAST OF HARDY, ABOUT MIDWAY DOWN A LOW HILL SLOPING EAST, AND IN THE HIGHWAY RIGHT-OF-WAY BETWEEN THE HIGHWAY AND A RAILROAD TRACK. OWNERSHIP-- ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 62 AND 63 IN HARDY, GO SOUTHEASTERLY ON HIGHWAY 63 FOR 2.1 KM (1.30 MI) TO THE STATION ON THE RIGHT ABOUT 0.16 KM (0.10 MI) BEFORE A RIVER CROSSING. THE STATION IS SET FLUSH IN THE TOP OF A 0.3 M (1.0 FT) X 0.6 M (2.0 FT) AREA OF EXPOSED ROCK OUTCROP PROJECTING 12 CM ABOVE GROUND. IT IS 23.9 M (78.4 FT) WEST-NORTHWEST OF THE EXTENDED CENTER OF A GRAVEL ROAD LEADING NORTH, 17.1 M (56.1 FT) SOUTH-SOUTHWEST OF AND 0.4 M (1.3 FT) LOWER THAN THE HIGHWAY CENTER, 11.8 M (38.7 FT) NORTH-NORTHEAST OF AND ABOUT 4 M (13.1 FT) HIGHER THAN THE NORTH RAIL OF THE RAILROAD TRACKS (SLOPE MEASUREMENT) AND 1.1 M (3.6 FT) NORTH-NORTHEAST OF A POWERLINE POLE AND FIBERGLASS WITNESS POST.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 FAA 7M9 A</p> <p>Ref Mon # 2 OR-01</p> <p>Ref Mon # 3 Q 313</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station Q 313A	Date Monumented 1/12/1998	Monumented By AHTD	County SHARP	Route 63	Job Number: 050064
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	219,582.8030	
Easting (M)	448,268.2870	
Elevation (M)*	112.392	
Northing (SFT)	720,414.5795	
Easting (SFT)	1,470,693.5383	
Elevation (SFT)*	368.739	

Convergence Angle	0	18	45.8804948
Scale Factor	1.000016353		
Elevation Adjust. Factor	0.9999823623		
Combined Adjust. Factor	0.9999987151		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	GUY POLE	122	8.54	28.0	Q 313
MK # 2	RAILROAD SIGNAL LIGHT	175	21.38	70.1	290 55 36.80212
MK # 3	NONE				290 36 50.86535

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 FAA 7M9 A	
Ref Mon # 2 OR-01	
Ref Mon # 3 Q 313	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station Q 68	Date Monumented 1/1/1934	Monumented By USC & GS	County FAULKNER	Route 25	Job Number: 012227
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	110,002.1902	0.0020			
Easting (M)	374,481.7937	0.0020			
Elevation (M)*	251.373				
Northing (SFT)	360,898.8523				
Easting (SFT)	1,228,612.3515				
Elevation (SFT)*	824.713				

Convergence Angle	0	9	47.9426449		
Scale Factor	0.999946150				
Elevation Adjust. Factor	0.9999605529				
Combined Adjust. Factor	0.9999067051				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	S5112 PERFORMED SIMULTANEOUS STATIC GPS BETWEEN Y 68 & Q 68 IN SEPT. 2015 AND MISSED Q 68 BY -0.0356' WHEN CONSTRAINING Y 68, ARBT & ARLR. DISTANCE BETWEEN MARKS ALONG HWY. 25 IS APPROXIMATELY 17.2 MILES.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station R 143	Date Monumented 1/1/1935	Monumented By CGS	County MADISON	Route CR 1455	Job Number: 090435
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	201,155.1146	0.0020	
Easting (M)	248,827.1288	0.0020	
Elevation (M)*	419.770		
Northing (SFT)	659,956.4052		
Easting (SFT)	816,360.3384		
Elevation (SFT)*	1,377.195		

Convergence Angle	0	58	38.5389569
Scale Factor	0.999982014		
Elevation Adjust. Factor	0.9999341287		
Combined Adjust. Factor	0.9999161439		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>DESCRIBED BY COAST AND GEODETIC SURVEY 1935 5.1 MILES NORTHEAST ALONG STATE HIGHWAY 68 FROM THE COURTHOUSE AT HUNTSVILLE, MADISON COUNTY, AT OLD ALABAM, 150 FEET EAST OF THE SOUTHEAST CORNER OF THE J.D. SMITH STORE, 105 FEET EAST OF THE JUNCTION OF THE HIGHWAY WITH A ROAD LEADING NORTH TO FORUM, 42 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY, 23 FEET WEST OF THE SOUTHWEST CORNER OF THE OLD ALABAM SCHOOLHOUSE AND CHURCH, AND 1 FOOT NORTH OF A CEMETERY FENCE. A STANDARD DISK, STAMPED R 143 1935 AND SET IN THE TOP OF A CONCRETE POST.</p> <p style="text-align: right;">STATION RECOVERY (1971) RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1971 (ILC) BENCH MARK R 143 IS A STANDARD DISK, STAMPED R 143 1935, SET IN THE TOP OF A 4-INCH SQUARE CONCRETE MONUMENT, THAT IS FLUSH WITH THE GROUND SURFACE. IT IS 30.1 FEET SOUTHWEST OF THE NORTHWEST CORNER OF THE CHURCH BUILDING, 22.6 FEET WEST OF THE SOUTHWEST CORNER OF GF0538 THE CHURCH BUILDING AND 4.0 FEET NORTHEAST OF A FENCE AROUND A CEMETERY.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY</p> <p>Ref Mon # 2 ARHR</p> <p>Ref Mon # 3 MOCS</p>	<p style="text-align: center;">Comments</p> <p>USED AS A VERTICAL CONSTRAINT IN STATIC JOB #090435. PERFORMED PRELIMINARY NETWORK ADJUSTMENT IN TBC NOT HOLDING R 143 FIXED AND MISCLOSURE WAS ONLY -0.0052' FROM NGS PUBLISHED ELEV.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station R 315 1990	Date Monumented	Monumented By NOAA	County CRAIGHEAD	Route 63	Job Number: 100293, 100869
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	176,061.7203 0.0020
Easting (M)	507,852.5665 0.0030
Elevation (M)*	78.898

Northing (SFT)	577,629.1607	
Easting (SFT)	1,666,179.6286	
Elevation (SFT)*	258.851	

Convergence Angle	0	41	43.2930142
Scale Factor	0.999952488		
Elevation Adjust. Factor	0.9999876185		
Combined Adjust. Factor	0.9999401071		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)
Latitude	35 54 51.8261688
Longitude	90 48 18.0652788
Ellipsoid Height:	50.218
Grid Northing (Meters)	176,062.0159
Grid Easting (Meters)	507,852.5220

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 230 WEST IN THE SMALL TOWN OF BONO JUST NORTH OF JONESBORO, GO NORTHWESTERLY ON HWY-63 FOR 0.64 KM. (0.40 MI.) TO THE STATION ON THE RIGHT. 16.3 METERS EAST NORTHEAST OF THE CENTER OF HWY-63, 11.5 METERS NORTH NORTHWEST OF THE CENTER OF A GRAVEL DRIVEWAY, 0.75 METERS WEST SOUTHWEST OF A METAL WITNESS POST AND 0.30 METERS SOUTH SOUTHEAST OF A CARSONITE WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN TO AN UNKNOWN DEPTH SURROUNDED BY A PLASTIC PIPE WITH A LOGO CAP STAMPED "R 315 1990" AND ENCASED IN CONCRETE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SIGN POLE	78	5.45	17.9
MK # 2	LIGHT POLE	86	18.15	59.5
MK # 3	CENTER OF CMP	200	7.15	23.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEDGWICK NW BASE	THIS STATION IS A NGS BENCH MARK. Position updated by crew S5101 during 09/2016 for job 100869.
Ref Mon # 2 PARAPORT	
Ref Mon # 3 160012	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station R 315 A	Date Monumented 6/6/1996	Monumented By AHTD	County CRAIGHEAD	Route 63	Job Number: 100293
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	176,061.7248	
Easting (M)	507,852.5682	
Elevation (M)*	78.447	
Northing (SFT)	577,629.1754	
Easting (SFT)	1,666,179.6342	
Elevation (SFT)*	257.372	

Convergence Angle	0	41	43.2930540
Scale Factor	0.999952488		
Elevation Adjust. Factor	0.9999876893		
Combined Adjust. Factor	0.9999401778		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	28	26.66	87.5
MK # 2	POWER POLE	122	36.25	118.9
MK # 3	TELEPHONE JUNCTION BOX	251	47.86	157.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEDGWICK NW BASE Ref Mon # 2 PARAPORT Ref Mon # 3 160012	ELEVATION BY 3-WIRE USING NGS BENCH MARK "R 315 1990" ELEVATION = 78.898 METERS.

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 54 51.8167080

Longitude 90 48 18.0635760

Ellipsoid Height (M): 49.763

Geoid Height (M): -28.684

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 230 WEST IN THE SMALL TOWN OF BONO JUST NORTH OF JONESBORO, GO NORTHWESTERLY ON HWY-63 FOR 1.29 KM. (0.80 MI.) TO THE STATION ON THE RIGHT IN AN OPEN AREA BETWEEN THE HIGHWAY AND THE RAILROAD TRACK. 15.08 METERS EAST NORTHEAST OF THE CENTER OF HWY-63, 11.72 METERS WEST SOUTHWEST OF THE SOUTHWEST RAIL AND 0.50 METERS WEST SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "R 315 A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station R 34	Date Monumented 1/1/1934	Monumented By CGS	County BENTON	Route N/A	Job Number: 090445,090558
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	234,503.5875 0.0040
Easting (M)	179,931.0897 0.0040
Elevation (M)*	

Northing (SFT)	769,367.1867	
Easting (SFT)	590,323.9168	
Elevation (SFT)*		

Convergence Angle	-1	25	40.8732306
Scale Factor	1.000042815		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (2011)		
Latitude	36	25	20.1457236
Longitude	94	27	14.6469420
Ellipsoid Height:	343.599		
Grid Northing (Meters)	234,503.5947		
Grid Easting (Meters)	179,931.0847		

Location Description			
<p>DESCRIBED BY US GEOLOGICAL SURVEY 1968 AT GRAVETTE. AT GRAVETTE, BENTON CO, ON STATE HWY 72. AT THE CROSSING OF HWY 72 AND THE ST. LOUIS-SAN FRANCISCO RAILWAY AND THE KANSAS CITY SOUTHERN RAILWAY, AT A CONC CUL, IN TOP OF THE S HEADWALL, 15 FT S AND 101 FT W OF THE MAIN LINE. A STANDARD DISK, STAMPED R 34 1934.</p> <p style="text-align: center;">STATION RECOVERY (2012)</p> <p>RECOVERY NOTE BY COSTELLO LAND SURVEYING 2012 (TC) STATION IS 15.5 FEET SOUTH OF CENTER LINE OF ROAD (NW MAIN ST), 101 FEET WEST OF RAILROAD TRACK.</p> <p style="text-align: center;">STATION RECOVERY (2015)</p> <p>RECOVERY NOTE BY ARKANSAS DEPARTMENT OF TRANSPORTATION 2015 (JDH) RECOVERED IN GOOD CONDITION.</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station R 79	Date Monumented 1/1/1935	Monumented By CGS	County GARLAND	Route 70	Job Number: NA
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	603,926.5369	
Easting (M)	308,360.1250	
Elevation (M)*	139.361	
Northing (SFT)	1,981,382.3131	
Easting (SFT)	1,011,678.1768	
Elevation (SFT)*	457.220	

Convergence Angle	0	33	30.6553158
Scale Factor	0.999951572		
Elevation Adjust. Factor	0.9999781302		
Combined Adjust. Factor	0.9999297033		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>THE STATION IS LOCATED ABOUT 3 MI (4.8 KM) EAST OF HOT SPRINGS, 0.3 MI (0.5 KM) WEST OF MORNING STAR, BETWEEN SPRING ROAD AND THE RAILROAD. OWNERSHIP--ROAD OR RAILROAD RIGHT-OF-WAY. TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 70 (E. GRAND AV) AND U.S. HIGHWAY 270 BUSINESS (MALVERN AV) IN HOT SPRINGS, GO NORTHEAST FOR 0.85 MI (1.37 KM) ON HIGHWAY 70 TO AN INTERSECTION. TURN RIGHT AND GO EASTERLY FOR 1.05 MI (1.69 KM) ON SPRING ROAD TO A RAILROAD CROSSING. CONTINUE STRAIGHT AHEAD AND GO EASTERLY FOR 1.5 MI (2.4 KM) ON SPRING ROAD TO THE MORNING STAR MISSIONARY BAPTIST CHURCH ON LEFT. CONTINUE STRAIGHT AHEAD AND GO EAST FOR 0.15 MI (0.24 KM) ON SPRING ROAD TO THE STATION ON RIGHT. THE STATION IS A CGS BENCH MARK DISK SET INTO THE TOP OF A 15-CM SQUARE CONCRETE MONUMENT PROJECTING 4 CM ABOVE GROUND. LOCATED 59.7 M (195.9 FT) EAST-NORTHEAST FROM A UTILITY POLE, 32.5 M (106.6 FT) WEST-SOUTHWEST FROM UTILITY POLE NUMBER 17 (3383Z 200 05 374 853) WITH TWO GUY WIRES, 13.7 M (44.9 FT) NORTH-NORTHWEST OF THE NORTH RAIL OF RAILROAD, 10.4 M (34.1 FT) SOUTH AND ACROSS ROAD FROM A FIRE HYDRANT, 5.5 M (18.0 FT) SOUTH-SOUTHEAST FROM THE APPROXIMATE CENTER OF SPRING</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station ROCKPORT	Date Monumented 1/1/1990	Monumented By NGS	County PULASKI	Route N/A	Job Number: R60101,061303
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	640,178.9171	
Easting (M)	376,418.2380	
Elevation (M)*	165.111	
Northing (SFT)	2,100,320.3305	
Easting (SFT)	1,234,965.5025	
Elevation (SFT)*	541.701	

Convergence Angle	0	8	39.4219097
Scale Factor	1.000015180		
Elevation Adjust. Factor	0.9999740894		
Combined Adjust. Factor	0.9999892690		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Elev. is 3rd Order published by NGS-541.6 feet doesn't agree w/ levels ran. 3-Wire Levels ran by crew S5104, S5108, & S5113 from NGS Marks J 290 & K 290 (430-40 on RR track) to G10 & RV159 (67/167 - 440 on RR track) in May 07 in job R60101.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station ROGPOR	Date Monumented 1/2/1989	Monumented By NOAA	County BENTON	Route 62	Job Number: 090064
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Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	227,407.1701	
Easting (M)	210,575.3310	
Elevation (M)*	412.613	
Northing (SFT)	746,085.0239	
Easting (SFT)	690,862.5651	
Elevation (SFT)*	1,353.714	

Convergence Angle	-1	13	41.6989629
Scale Factor	1.000028621		
Elevation Adjust. Factor	0.9999352518		
Combined Adjust. Factor	0.9999638709		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 62, 62B AND STATE HIGHWAY 94, LOCATED ON THE NORTH SIDE OF ROGERS, GO NORTHEAST ON U.S. HIGHWAY 62 FOR 1.34 KM (0.83 MI) TO A PAVED ROAD ON THE LEFT. TURN LEFT AND GO NORTH ON AIRPORT ENTRANCE ROAD PASSING THE AIRPORT OFFICE ON THE RIGHT FOR 0.28 KM (0.17 MI) TO A LOCKED GATE. PASS THROUGH THE GATE AND GO NORTHWEST ACROSS AN APRON FOR 0.06 KM (0.04 MI) TO A TAXIWAY. TURN LEFT AND GO SOUTHWEST ON THE TAXIWAY FOR 0.38 (0.24 MI) TO AND THE STATION ACROSS THE RUNWAY AND ON LINE WITH THE RUNWAY END. THE STATION IS 42.1 METER WEST OF OF THE CENTER OF RUNWAY END 1, 27.1 METERS WEST-NORTHWEST OF THE SOUTHWET CORNER OF THE RUNWAY, 24.2 METERS WEST OF THE WESTERMOST THRESHOLD LIGHT AND 6.2 METERS NORTHWEST OF THE CENTER OF THE WEST REIL. THE STATION IS A PUNCH HOLE IN THE TOP OF A 5/8 INCH STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE WITH A NGS LOGO CAP STAMPED "ROGPOR 1989".</p> <p style="text-align: center;">NOTE " DO NOT GO ON AIRPORT WITHOUT CONTACTING FRANK SPEER".</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 CASSPORT</p> <p>Ref Mon # 2 V 26</p> <p>Ref Mon # 3 FLINT</p>	<p style="text-align: center;">Comments</p> <p>DO NOT GO ON AIRPORT WITHOUT CONTACTING FRANK SPEER. NGS ESTABLISHED ELEVATION ON THIS STATION.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station ROGPORT AZ MK	Date Monumented 1/2/1989	Monumented By NOAA	County BENTON	Route 62	Job Number: 090064
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	228,037.7441	
Easting (M)	210,788.5080	
Elevation (M)*	412.532	
Northing (SFT)	748,153.8321	
Easting (SFT)	691,561.9633	
Elevation (SFT)*	1,353.449	

Convergence Angle	-1	13	37.0394989
Scale Factor	1.000029987		
Elevation Adjust. Factor	0.9999352645		
Combined Adjust. Factor	0.9999652495		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 62, 62B AND STATE HIGHWAY 94, LOCATED ON THE NORTH SIDE OF ROGERS, GO NORTHEAST ON U.S. HIGHWAY 62 FOR 1.34 KM (0.83 MI) TO A PAVED ROAD ON THE LEFT. TURN LEFT AND GO NORTH ON AIRPORT ENTRANCE ROAD PASSING THE AIRPORT OFFICE ON THE RIGHT FOR 0.28 KM (0.17 MI) TO A LOCKED GATE. PASS THROUGH THE GATE AND GO NORTHWEST ACROSS AN APRON FOR 0.06 KM (0.04 MI) TO A TAXIWAY. TURN RIGHT AND GO NORTHWEST ON THE TAXIWAY FOR 0.27 KM (0.17 MI) TO A TAXIWAY. TURN LEFT AND GO WESTERLY CROSSING THE RUNWAY FOR 0.12 KM (0.07 MI) TO THE STATION ON THE RIGHT LOCATED NORTH AND WEST OF THE INTERSECTION OF THE RUNWAY AND THE REMAINS OF A FORMER EAST-WEST RUNWAY. THE STATION IS 69.4 METERS SOUTHWEST OF THE SECOND RUNWAY LIGHT NORTH OF THE INTERSECTION, 47.4 METERS WEST OF THE WEST EDGE OF RUNWAY, AND 11.5 METERS WEST-NORTHWEST OF A 90 BEND IN A SHALLOW DITCH. THE STATION IS A PUNCH HOLE IN THE TOP OF A 5/8 INCH STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE WITH A NGS LOGO CAP STAMPED "ROGPORT AZ MK 1989"</p> <p style="text-align: right;">NOTE "DO NOT GO ON AIRPORT WITHOUT CONTACTING FRANK"</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: CASSPORT</p> <p>Ref Mon # 2: V 26</p> <p>Ref Mon # 3: FLINT</p>	<p style="text-align: center;">Comments</p> <p>DO NOT GO ON AIRPORT WITHOUT CONTACTING FRANK SPEER. NGS ESTABLISHED ELEVATION ON THIS STATION.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station ROUCH	Date Monumented 1/1/1990	Monumented By UALR	County PULASKI	Route N/A	Job Number: NA
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Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	628,284.9840	
Easting (M)	368,780.5640	
Elevation (M)*	113.200	
Northing (SFT)	2,061,298.3183	
Easting (SFT)	1,209,907.5671	
Elevation (SFT)*	371.390	

Convergence Angle	0	11	26.7791821
Scale Factor	0.999990847		
Elevation Adjust. Factor	0.9999822355		
Combined Adjust. Factor	0.9999730827		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 43 27.7748868
Longitude	92 20 27.0691620
Ellipsoid Height (M):	86.600
Geoid Height (M):	-26.560

Location Description
<p>THE STATION IS LOCATED IN LITTLE ROCK, AT THE UNIVERSITY OF ARKANSAS AT LITTLE ROCK, ON TOP OF THE ENGINEERING-TECHNICAL SCIENCE BUILDING, NEAR THE TOP CENTER OF THE EAST WALL OF BUILDING. OWNERSHIP-- UNIVERSITY OF ARKANSAS AT LITTLE ROCK, 2801 SOUTH UNIVERSITY AVENUE, LITTLE ROCK AR 72204. CONTACT IS PROFESSOR JUD ROUCH, PHONE 501-569-8204 OR 565-0630 (HOME). TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAY 30 AND UNIVERSITY AVENUE (EXIT 132) IN SOUTHWEST LITTLE ROCK, GO NORTH FOR 2.85 MI (4.59 KM) ON UNIVERSITY AVENUE TO A CROSS STREET, ASHER AVENUE. CONTINUE STRAIGHT AHEAD AND GO NORTH FOR 0.65 MI (1.05 KM) ON UNIVERSITY AVENUE TO THE JUNCTION OF 28TH STREET. TURN RIGHT AND GO EAST FOR 0.2 MI (0.3 KM) ON 28TH STREET TO A PAVED ROAD RIGHT. TURN RIGHT AND GO SOUTH FOR 0.07 MI (0.11 KM) ON THE PAVED ROAD TO A PAVED ROAD RIGHT. TURN RIGHT AND GO WESTERLY THEN SOUTHERLY FOR 0.25 MI (0.40 KM) ON THE PAVED ROAD ALONG PERIMETER OF PARKING LOT TO THE WEST SIDE OF BUILDING, A LOADING DOCK AND END OF TRUCK TRAVEL. UNIVERSITY PERSONNEL WILL PROVIDE ESCORT TO THE STATION SITE. STATION MONUMENTATION CONSISTS OF A 1.5-INCH METAL PIPE WELDED TO TWO STEEL</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station RP 05	Date Monumented 2/7/1997	Monumented By MoDOT	County MO / RIPLEY	Route N/A	Job Number: NA
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Zone Arkansas South	Zone Code	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum		Elevation Datum: NAVD 88
Northing (M)	#Error	Geoid Datum:
Easting (M)	#Error	Latitude
Elevation (M)*	106.140	Longitude
Northing (SFT)	#Type!	Ellipsoid Height (M):
Easting (SFT)	#Type!	Geoid Height (M):
Elevation (SFT)*	348.228	

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			0.9999833435
Combined Adjust. Factor			#Type!

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station RUSSPORT	Date Monumented 1/1/1990	Monumented By NGS	County POPE	Route 331	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	103,361.4700	
Easting (M)	300,610.9350	
Elevation (M)*	118.000	
Northing (SFT)	339,111.7562	
Easting (SFT)	986,254.3759	
Elevation (SFT)*	387.138	

Convergence Angle	0	38	8.1513686
Scale Factor	0.999951850		
Elevation Adjust. Factor	0.9999814823		
Combined Adjust. Factor	0.9999333332		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>THE STATION IS LOCATED ABOUT 2 KM (1.25 MI) SOUTHEAST OF RUSSELLVILLE, AT THE RUSSELLVILLE REGIONAL AIRPORT, NEAR MIDFIELD, IN THE NORTHEAST QUADRANT OF THE JUNCTION OF THE PARALLEL TAXIWAY AND A CONNECTOR TAXIWAY LEADING TO SOME HANGARS. OWNERSHIP--CITY OF RUSSELLVILLE, CITY HALL, RUSSELLVILLE AR, PO BOX 128, RUSSELLVILLE AR 72801. AIRPORT MANAGER IS BILL SHELTON, PHONE 501-967-1227 (AIRPORT), 331-3318 (HOME). ASSISTANT MANAGER IS SHAWN WALTER, PHONE 890-5070. CALL IN ADVANCE TO OPEN THE LOCKED GATE. TO REACH THE STATION FROM THE OVERPASS AT THE JUNCTION OF INTERSTATE HIGHWAY 40 AND STATE HIGHWAYS 64 AND 331 (EXIT 84) ON THE EAST SIDE OF RUSSELLVILLE, GO SOUTH ON HIGHWAYS 64 AND 331 FOR 0.48 KM (0.30 MI) TO A PAVED T-JUNCTION. TURN RIGHT, WEST ON HIGHWAYS 64 AND 331 FOR 0.74 KM (0.45 MI) TO A PAVED CROSSROAD. TURN LEFT, SOUTH ON HIGHWAY 331 (ELMIRA AVENUE) FOR 1.53 KM (0.95 MI) TO A PAVED CROSSROAD. TURN LEFT, EAST ON EAST 16TH STREET FOR 0.40 KM (0.25 MI) TO A PAVED ROAD RIGHT. TURN RIGHT, SOUTHEAST ON THE AIRPORT ENTRANCE ROAD FOR 0.38 KM (0.25 MI) TO A DRIVEWAY AND A PARKING LOT ON THE LEFT. TURN LEFT, EAST ON THE DRIVEWAY AND THROUGH THE</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	SSPORT AZ MK (FG1962)
MK # 2			0.00	0.0	Geodetic Azimuth
MK # 3			0.00	0.0	Grid Azimuth

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station S 197	Date Monumented 1/1/1960	Monumented By CGS	County OUACHITA	Route 278	Job Number: 070258, 001914
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	505,443.4082	
Easting (M)	328,853.3610	
Elevation (M)*	37.882	
Northing (SFT)	1,658,275.5817	
Easting (SFT)	1,078,913.0685	
Elevation (SFT)*	124.285	

Convergence Angle	0	25	44.8526964
Scale Factor	0.999945100		
Elevation Adjust. Factor	0.9999940551		
Combined Adjust. Factor	0.9999391554		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station S 25	Date Monumented 1/1/1932	Monumented By CGS	County RANDOLPH	Route D HWY	Job Number: 100877
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD83 (2011)				
Northing (M)	225,526.4135	0.0020			
Easting (M)	511,397.1992	0.0020			
Elevation (M)*	85.440				

Northing (SFT)	739,914.5750				
Easting (SFT)	1,677,808.9777				
Elevation (SFT)*	280.314				

Convergence Angle	0	43	20.0278231		
Scale Factor	1.000027440				
Elevation Adjust. Factor	0.9999865919				
Combined Adjust. Factor	1.0000140315				

SUPERCEDED CONTROL

Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description

THE STATIONS IS LOCATED AT THE SOUTHEAST CORNER OF THE REYNO ELEMENTARY SCHOOL GROUND WHICH IS IN THE SOUTHERN EDGE OF REYNO. IT IS ABOUT 225 FEET SOUTH OF THE SOUTHEAST CORNER OF THE SCHOOL AND 2 FEET NORTHWEST OF THE EDGE OF THE SIDEWALK. IT IS A STANDARD U.S. COAST AND GEODETIC BENCH MARK DISK SET IN THE TOP OF AND 8 IN X 8 IN CONCRETE POST WHICH PROJECTS 2 IN AND THE DISK IS STAMPED S 25 1932. A TRAVERSE WAS MADE TO TRANGULATION STATION REYNO, AND THE DISTANCE WAS FOUND TO BE 26.25 FEET OR 8.001 METERS SOUTHWEST OF THE STATION.

Location Reference Marks

Description	Azimuth	Distance		AZ Mark Station	
		Meters	Feet		
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 MODP	Elevation from NGS datasheet.
Ref Mon # 2 ARPG	
Ref Mon # 3 ARBT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station S 301	Date Monumented 1/1/1985	Monumented By NGS	County POLK	Route 71	Job Number: 040488
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	590,199.8468	
Easting (M)	181,371.0640	
Elevation (M)*	358.859	
Northing (SFT)	1,936,347.3307	
Easting (SFT)	595,048.2325	
Elevation (SFT)*	1,177.357	

Convergence Angle	-1	19	49.1980229
Scale Factor	0.999934428		
Elevation Adjust. Factor	0.9999436865		
Combined Adjust. Factor	0.9998781182		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 MENAPORT AZ Ref Mon # 2 DQUA Ref Mon # 3 OKHV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-Wire Elevations were ran from NGS Q 301, R 301, & S301 in Job # 040488 by S5102 in Oct 2007.</td> </tr> </table>	Comments	3-Wire Elevations were ran from NGS Q 301, R 301, & S301 in Job # 040488 by S5102 in Oct 2007.
Comments			
3-Wire Elevations were ran from NGS Q 301, R 301, & S301 in Job # 040488 by S5102 in Oct 2007.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 246, SOUTH OF MENA, GO SOUTH ON HIGHWAY 71 FOR 1.5 MILES TO THE STATION MARK ON THE LEFT, EAST 47.0 FEET OF THE CENTERLINE OF HIGHWAY 71,, SOUTH 20.8 FEET OF THE CENTERLINE OF COUNTY ROAD 482, AND NORTH 1.0 FOOT OF A WITNESS POST. THE STATION MAK IS A STAINLESS STEEL ROD DRIVEN 4.92 FEET TO REFUSAL AND SET IN AN NGS LOGO CAP STAMPED "S 301 1985"	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station SALIPOINT	Date Monumented 1/1/1990	Monumented By NGS	County SALINE	Route I30	Job Number: 061039,60209,061256
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	610,381.0900	
Easting (M)	344,279.6760	
Elevation (M)*	96.995	
Northing (SFT)	2,002,558.6261	
Easting (SFT)	1,129,524.2370	
Elevation (SFT)*	318.225	

Convergence Angle	0	20	23.4147888
Scale Factor	0.999960755		
Elevation Adjust. Factor	0.9999847785		
Combined Adjust. Factor	0.9999455341		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>THE STATION IS LOCATED ABOUT 5.4 MI (8.7 KM) WEST OF BAUXITE, 3.7 MI (6.0 KM) NORTHEAST OF HASKELL, 0.8 MI (1.3 KM) SOUTHWEST OF BENTON, AT THE SALINE COUNTY AIRPORT. OWNERSHIP--SALINE COUNTY, COUNTY COURTHOUSE, BENTON AR 72015. AIRPORT MANAGER IS SETH OTTS, TELEPHONE 501-776-2102. TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAY 30 AND STATE HIGHWAYS 5/35 AT EXIT 117, GO 0.6 MI (1.0 KM) SOUTHWESTERLY ON INTERSTATE HIGHWAY 30 TO EXIT 116. EXIT THE INTERSTATE HIGHWAY AND GO 0.4 MI (0.6 KM) ON LOOP ROAD/I-30 OVERPASS. IMMEDIATELY AFTER CROSSING OVERPASS TURN RIGHT, SOUTHWEST ON FAIRFIELD ROAD FOR 0.3 MI (0.5 KM) TO A PAVED ROAD LEFT. TURN LEFT, SOUTH ON AIRLANE ROAD FOR 0.08 MI (0.13 KM) TO A PAVED ROAD RIGHT. TURN RIGHT, SOUTHWESTERLY, ON AIRPORT ENTRANCE ROAD FOR 0.1 MI (0.2 KM) PASSING TERMINAL BUILDING/HANGAR TO A LOCKED GATE ON THE LEFT. TURN LEFT AND PASS THROUGH THE GATE AND GO 0.05 MI (0.08 KM) TO AN APRON AND SOUTHWEST CORNER OF TERMINAL BUILDING. TURN LEFT, EAST FOR 0.05 MI (0.08 KM) ANGLING NORTHEASTERLY ACROSS APRON TO THE NORTH FENCE AND STATION. THE STATION IS A PUNCH HOLE IN THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <p>3-wire elevations were ran from NGS Benton North Meridian in Job 061039 by B&F in 2003. Digital Levels were ran by crew S5101 in March 2010 from NGS mark Saliport AZ in job 061256.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
SALIPORT AZ MK	1/1/1990	NGS	SALINE	I30	061039,061256

Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	609,770.2479	
Easting (M)	344,281.2200	
Elevation (M)*	93.407	
Northing (SFT)	2,000,554.5550	
Easting (SFT)	1,129,529.3026	
Elevation (SFT)*	306.453	

Convergence Angle	0	20	23.3013487
Scale Factor	0.999959876		
Elevation Adjust. Factor	0.9999853416		
Combined Adjust. Factor	0.9999452182		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>3-wire elevations were ran from NGS Benton North Meridian in Job 061039 by B&F in 2003.</td> </tr> </table>	Comments	3-wire elevations were ran from NGS Benton North Meridian in Job 061039 by B&F in 2003.
Comments			
3-wire elevations were ran from NGS Benton North Meridian in Job 061039 by B&F in 2003.			

Location Description
THE STATION IS LOCATED ABOUT 8.7 KM (5.4 MI) WEST OF BAUXITE. 5.9 KM (3.7 MI) NORTHEAST OF HASKELL, AND 1.3 KM (0.8 MI) SOUTHWEST OF BENTON. AT THE BENTON SALINE COUNTY AIRPORT. OWNERSHIP--SALINE COUNTY, COUNTY COURTHOUSE, BENTON AR 72015. AIRPORT MANGER IS JOHN WELLS, SALINE COUNTY AIRPORT. BENTON AR 72015. PHONE IS 501-778-4842. TO REACH FROM THE WEST SIDE OF THE SALINE COUNTY COURTHOUSE IN BENTON, GO SOUTH ON MARKET STREET FOR 0.17 KM (0.11 MI) TO A CROSS STREET. TURN RIGHT AND GO WEST ON SOUTH STREET (U.S.HIGHWAY 70 B) FOR 1.1 KM (0.7 MI) TO A PAVED STREET ON THE LEFT. TURN LEFT AND GO SOUTH ON JEFFERSON STREET FOR 0.23 KM (0.14 MI) TO A PAVED STREET ON THE RIGHT. TURN RIGHT AND GO WEST ON SMITH STREET FOR 0.57 KM (0.35 MI) TO A PAVED T-JUNCTION. TURN LEFT AND GO SOUTH ON AIRLANE STREET FOR 50 FT (15.2 M) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO WEST AND SOUTH ON THE AIRPORT ENTRANCE ROAD FOR 0.21 KM (0.13 MI) PASSING AIRPORT OFFICE TO A LOCKED GATE. PASS THROUGH GATE AND CONTINUE SOUTH ON ENTRANCE ROAD FOR 0.06 KM (0.04 MI) TO AN APRON. TURN LEFT AND GO EAST ACROSS THE APRON FOR 150 FT (45.7 M) TO A TAXIWAY. TURN RIGHT AND GO SOUTH ON THE TAXIWAY FOR 0.56 KM

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
SARATOGA AZ		USC&GS	HEMPSTEAD	32	30056

Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	522,051.8822	
Easting (M)	223,598.7240	
Elevation (M)*	142.838	
Northing (SFT)	1,712,765.2169	
Easting (SFT)	733,590.1470	
Elevation (SFT)*	468.628	

Convergence Angle	-1	3	56.6522101
Scale Factor	0.999930521		
Elevation Adjust. Factor	0.9999775846		
Combined Adjust. Factor	0.9999081071		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	190	16.20	53.1
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	HOPEPORT
Ref Mon # 2	X 303 BM
Ref Mon # 3	PATE 1941
Cross Reference Job: 30088	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station SEARPORT	Date Monumented 1/1/1990	Monumented By NGS	County WHITE	Route 67	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	97,765.1741	
Easting (M)	424,074.9300	
Elevation (M)*	79.200	
Northing (SFT)	320,751.2420	
Easting (SFT)	1,391,319.1662	
Elevation (SFT)*	259.842	

Convergence Angle	0	9	13.9323798
Scale Factor	0.999956657		
Elevation Adjust. Factor	0.9999875711		
Combined Adjust. Factor	0.9999442286		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>STATION IS LOCATED ABOUT 14.1 KM (8.8 MI) NORTHEAST OF MCRAE, 6.7 KM (4.2 MI) WEST-SOUTHWEST OF KENSSETT, AND 3.5 KM (2.2 MI) SOUTH OF SEARCY. AT THE SEARCY MUNICIPAL AIRPORT. OWNERSHIP--CITY OF SEARCY AR 72143. AIRPORT MANAGER IS BUTCH BARKER, RTE. 7, SEARCY AR 72143. PHONE IS 501-268-9620 OR 501-268-6777. TO REACH FROM THE JUNCTION OF U.S. HIGHWAYS 67 AND 67B AND STATE HIGHWAY 367 (EXIT 42) ABOUT 4.0 KM (2.5 MI) SOUTH OF SEARCY, GO NORTH ON U.S. HIGHWAY 67B FOR 0.84 KM (0.52 MI) TO A PAVED ROAD ON THE LEFT. TURN LEFT AND GO WEST ON THE AIRPORT ENTRANCE ROAD AND NORTHWEST ON A TAXIWAY, AND WEST ACROSS AN APRON AND ALONG A CONNECTOR FOR 0.31 KM (0.19 MI) TO A TAXIWAY AND THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE IN THE TOP OF A 5/8 INCH STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE WITH A NGS LOGO CAP, IT IS 24.8 M (81.4 FT) EAST OF THE TAXIWAY CENTERLINE, 24.1 M (79.1 FT) SOUTH OF THE CONNECTOR CENTERLINE AND 19.7 M (64.6 FT) SOUTHEAST OF THE CURVED PAVEMENT AT THE JUNCTION OF THE CONNECTOR AND TAXIWAY. NOTE--THE AIRPORT MANAGER IS JOHN JACOBI. THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATION FOR A CLASS A ROD MARK.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
SEDGWICK AZ	11/4/1993	AHTD	LAWRENCE	63	RX0017,001784

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	190,794.1349	
Easting (M)	492,870.8420	
Elevation (M)*	81.110	
Northing (SFT)	625,963.7576	
Easting (SFT)	1,617,027.0875	
Elevation (SFT)*	266.108	

Convergence Angle	0	35	59.1690600
Scale Factor	0.999968712		
Elevation Adjust. Factor	0.9999872714		
Combined Adjust. Factor	0.9999559838		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT IN THE TOP OF A FIRE HYDRANT	19	24.33	79.8
MK # 2	NBC IN COMBINATION POLE	48	34.91	114.5
MK # 3	NBC IN COMBINATION POLE	327	31.84	104.5

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>SEDGWICK</td> </tr> <tr> <td>Ref Mon # 2</td> <td>NEWSPORT</td> </tr> <tr> <td>Ref Mon # 3</td> <td>WALDENBURG</td> </tr> </table>	Ref Mon # 1	SEDGWICK	Ref Mon # 2	NEWSPORT	Ref Mon # 3	WALDENBURG	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	SEDGWICK						
Ref Mon # 2	NEWSPORT						
Ref Mon # 3	WALDENBURG						

THIS STATION WAS SET BECAUSE THE ORIGINAL AZIMUTH MARK FOR THE STATION "SEDGWICK" WAS NOT RECOVERED. THE OBSERVATIONS DONE WERE BY GLOBAL POSITIONING METHODS AND NO TRAVERSE TIES WERE MADE TO "SEDGWICK" ALTHOUGH THERE IS A GOOD LINE OF SIGHT BETWEEN THE TWO POINTS. FROM THE JCT. OF HWY. 67 AND HWY. 63 IN THE TOWN OF HOXIE, GO SOUTH ON HWY. 63 FOR 0.56 KM (0.35 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.794 METERS SOUTH OF THE CENTERLINE OF HWY. 63, 36.734 METERS SOUTHWEST OF THE SOUTHWEST CORNER OF THE "COX IMPLEMENT CO. " BUILDING, 66.87 METERS NORTH OF THE NORTHWEST CORNER OF "AMERICAN LEGION POST 335" AND 0.50 METERS NORTH OF A WITNESS POST AT THE EDGE OF A CULTIVATED FIELD. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "SEDGWICK AZ" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
DGWICK BASE 3	1/1/1958	USC&GS	LAWRENCE	63	100278

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	182,994.0829	
Easting (M)	502,674.2710	
Elevation (M)*	79.969	
Northing (SFT)	600,373.0870	
Easting (SFT)	1,649,190.5041	
Elevation (SFT)*	262.365	

Convergence Angle	0	39	44.9744518
Scale Factor	0.999959418		
Elevation Adjust. Factor	0.9999874504		
Combined Adjust. Factor	0.9999468689		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	138	13.43	44.1
MK # 2	GUY POLE	210	33.48	109.8
MK # 3	FIRE HYDRANT	308	32.11	105.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 SEDGWICK NW BASE Ref Mon # 2 PARAPORT Ref Mon # 3 160014	THIS STATION IS A USC&GS BENCH MARK. FIRST ORDER, CLASS 2. ELEVATION = 79.969 METERS NAVD88 DATUM.

Location Description	
TO REACH THE STATION FROM THE POST OFFICE IN THE SMALL TOWN OF SEDGWICK, GO SOUTHEAST ON U.S. HIGHWAY 63 FOR 0.16 KM. (0.10 MI.) TO THE STATION ON THE RIGHT. 28.207 METERS SOUTHWEST OF THE CENTER OF U.S. 63, 11.548 METERS SOUTHWEST OF THE CENTER OF "MAIN STREET", 9.119 METERS SOUTHEAST OF THE SOUTHEAST EDGE OF A CONCRETE DRIVE, 7.702 METERS NORTHWEST OF THE NORTHWEST EDGE OF A CONCRETE DRIVE, 0.735 METERS SOUTHWEST OF THE SOUTHWEST EDGE OF A CONCRETE SIDEWALK AND 1.90 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A USC&GS BRONZE DISK STAMPED "SEDGWICK SE BASE 3 1958" SET IN CONCRETE AND IS 0.10 METERS BELOW THE SURFACE.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
SEDGWICK NW		USC&GS	LAWRENCE	63	RX0017,001784

Zone	Zone Code	Vertical Determined By:
Arkansas North	301	LEVEL - Unkown Quality
Horizontal Datum	NAD 83 (1986)	
Northing (M)	190,681.2719	
Easting (M)	493,595.3420	
Elevation (M)*	81.405	
Northing (SFT)	625,593.4729	
Easting (SFT)	1,619,404.0512	
Elevation (SFT)*	267.076	

Convergence Angle	0	36	15.9841521
Scale Factor	0.999968559		
Elevation Adjust. Factor	0.9999872251		
Combined Adjust. Factor	0.9999557845		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SEDGWICK NO 1 1953			
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
OGWICK SE 3 AZ	10/28/1997	AHTD	LAWRENCE	63	100278

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	183,492.1269	
Easting (M)	502,159.1360	
Elevation (M)*	80.547	
Northing (SFT)	602,007.0863	
Easting (SFT)	1,647,500.4320	
Elevation (SFT)*	264.261	

Convergence Angle	0	39	33.1427671
Scale Factor	0.999959964		
Elevation Adjust. Factor	0.9999873597		
Combined Adjust. Factor	0.9999473242		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH TBM-12	217	39.77	130.5
MK # 2	TELEPHONE POLE	336	41.45	136.0
MK # 3	TELEPHONE POLE	66	21.11	69.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM STATION SEDGWICK SE BASE 3, ELEVATION = 79.969 METERS NAVD88 DATUM.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station SILOAM	Date Monumented 3/17/1997	Monumented By ARGLS	County BENTON	Route 264	Job Number: 090147,090268
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	209,335.9670	
Easting (M)	172,867.4140	
Elevation (M)*	344.207	
Northing (SFT)	686,796.4184	
Easting (SFT)	567,149.1741	
Elevation (SFT)*	1,129.286	

Convergence Angle	-1	28	10.7342607
Scale Factor	0.999992450		
Elevation Adjust. Factor	0.9999459856		
Combined Adjust. Factor	0.9999384360		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF CMP UNDER SIDEWALK	85	7.90	25.9
MK # 2			0.00	0.0
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>SILOAM</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ENES</td> </tr> <tr> <td>Ref Mon # 3</td> <td>SALLISAW</td> </tr> </table>	Ref Mon # 1	SILOAM	Ref Mon # 2	ENES	Ref Mon # 3	SALLISAW	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
Ref Mon # 1	SILOAM						
Ref Mon # 2	ENES						
Ref Mon # 3	SALLISAW						

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 11 38.1189660
Longitude	94 31 32.1845484
Ellipsoid Height (M):	315.750
Geoid Height (M):	-28.270

Location Description
<p>THE STATION IS LOCATED IN THE NORTHEAST PART OF SILOAM SPRINGS, ON THE NORTHERLY RIGHT-OF-WAY OF STATE HIGHWAY 264, ADJACENT TO THE GROUNDS OF THE SILOAM SPRINGS CHILD DEVELOPMENT CENTER, INSIDE A FENCED AREA AT THE SOUTHEAST CORNER OF THE CENTERS GROUNDS. TO REACH THE STATION FROM THE INTERSECTION OF STATE HIGHWAYS 264 AND 59 IN SILOAM SPRINGS, GO NORTH ON HIGHWAY 264 FOR 0.9 MI (1.4 KM) TO THE STATION ON THE LEFT. THE STATION IS AN ARKANSAS HARN DISK SET IN A 15 INCH DIAMETER BY 48 INCH DEEP ROUND CONCRETE MONUMENT FLUSH WITH GROUND. LOCATED 1.5 M (4.9 FT) NORTHWEST OF THE FENCE CORNER AT THE SOUTHEAST CORNER OF THE FENCED AREA, 23.3 METERS (76.4 FT) NORTHWESTERLY FROM THE CENTERLINE OF HIGHWAY 264 AND 76.8 METERS (252.0 FT) NORTHEAST OF THE BACK OF CURB ON THE EAST SIDE OF HEARTLAND STREET. ACCESS TO THE STATION IS THROUGH AN UNLOCKED GATE ON THE SOUTH SIDE OF THE FENCE.</p>

AZ Mark Station	040034
Geodetic Azimuth	206 34 18
Grid Azimuth	208 02 29

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
SPRINGDALE	1/1/1935	NGS	WASHINGTON	NA	040272,012111

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	205,267.4509	
Easting (M)	205,366.1710	
Elevation (M)*	428.603	
Northing (SFT)	673,448.2952	
Easting (SFT)	673,772.1794	
Elevation (SFT)*	1,406.175	

Convergence Angle	-1	15	31.9035644
Scale Factor	0.999987075		
Elevation Adjust. Factor	0.9999327428		
Combined Adjust. Factor	0.9999198186		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 SPRINGDALE</p> <p>Ref Mon # 2 ARHR</p> <p>Ref Mon # 3 A 309</p>	<p style="text-align: center;">Comments</p> <p>3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309.</p>
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Location Description

TO REACH THE STATION FROM THE JUNCTION OF U. S. HIGHWAY 71 AND STATE 'HIGHWAY 68 IN THE SOUTH EDGE OF SPRINGDALE, GO WEST ON STATE HIGHWAY FOR 1.0 MILE TO JOHNSON ROAD ON THE LEFT. TURN LEFT AND GOSOUTH ON JOHNSON ROAD FOR 0.7 MILE TO A CROSSROAD TURN RIGHT AND GO WEST ON GRAVELED ROAD FOR 0.35 MILE 'TO THE TOP OF HILL AND STATION ON RIGHT AS DESCRIBED. 'THE STATION MARK IS A STANDARD DISK STAMPED SPRINGDALE 1935. THE 'SURFACE DISK IS SET IN THE TOP OF A SQUARE CONCRETE MONUMENT THAT IS SET 15-INCHES BELOW THE GROUND SURFACE. IT IS 57 FEET WEST OF 'THE CENTER OF THE GATE, 30 FEET NORTH OF THE CENTER OF A PAVED 'ROAD, 21 FEET NORTHEAST OF THE METAL WITNESS POST AND 2 FEET NORTH OF THE FENCE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
SPRINGDALE AZ		AHTD	NA	CR 704	040272,012111

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	205,219.6820	
Easting (M)	205,964.8200	
Elevation (M)*	416.067	
Northing (SFT)	673,291.5734	
Easting (SFT)	675,736.2470	
Elevation (SFT)*	1,365.048	

Convergence Angle	-1	15	17.9445750
Scale Factor	0.999987020		
Elevation Adjust. Factor	0.9999347097		
Combined Adjust. Factor	0.9999217306		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	A 309
Ref Mon # 2	ARHR
Ref Mon # 3	SPRINGDALE

Comments
3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station STELL	Date Monumented 1/1/1986	Monumented By NGS	County ASHLEY	Route 52	Job Number: NA
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	456,268.1220	
Easting (M)	410,625.3950	
Elevation (M)*	53.530	
Northing (SFT)	1,496,939.6636	
Easting (SFT)	1,347,193.4834	
Elevation (SFT)*	175.623	

Convergence Angle	0	3	49.5320044
Scale Factor	1.000030349		
Elevation Adjust. Factor	0.9999915995		
Combined Adjust. Factor	1.0000219482		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>THE STATION IS LOCATED ABOUT 9 KM (5.60 MI) SOUTHWEST OF HAMBURG, 9 KM (5.60 MI) NORTHEAST OF CROSSETT, AT THE STELL FIELD AIRFIELD, IN THE EAST QUADRANT OF THE JUNCTION OF RUNWAY END 5 AND THE CONNECTOR TAXIWAY TO THE RUNWAY END FROM THE APRON. OWNERSHIP--CITY OF CROSSETT. AIRPORT MANAGER IS Z.M. STELL, ROUTE 4 BOX 403, CROSSETT AR 71635, OFFICE PHONE IS 501-364-6590, HOME PHONE IS 501-364-3194. CONTACT HIM IN ADVANCE FOR PERMISSION TO OCCUPY THIS STATION AND ACCESS THROUGH THE LOCKED GATE. TO REACH FROM THE JUNCTION OF U.S. HIGHWAY 82 AND STATE HIGHWAY 113 ON THE EAST SIDE OF CROSSETT, GO NORTH AND NORTHEAST ON HIGHWAY 113 FOR 3.88 KM (2.40 MI) TO THE JUNCTION OF STATE HIGHWAY 52 (AT THIS POINT HIGHWAY 113 TURNS NORTH). BEAR RIGHT, NORTHEAST AND EASTERLY ON HIGHWAY 52 FOR 5.64 KM (3.50 MI) TO THE PAVED AIRPORT ENTRANCE ROAD ON THE LEFT. TURN LEFT, NORTH ON THE ROAD AND ACROSS A PARKING LOT FOR ABOUT 60 M (196.8 FT) TO A GATE AT THE APRON ON THE LEFT AND THE AIRPORT OFFICE ON THE RIGHT. TURN LEFT, NORTHWEST, PASSING THROUGH THE GATE, ACROSS THE APRON AND ALONG A TAXIWAY FOR 0.19 KM (0.10 MI) TO THE JUNCTION OF THE RUNWAY AND THE STATION ON THE</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station T 203	Date Monumented 1/1/1960	Monumented By USC & GS	County COLUMBIA	Route US 371	Job Number: 070444
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	469,750.5792	0.0030			
Easting (M)	284,366.1673	0.0030			
Elevation (M)*	96.719				
Northing (SFT)	1,541,173.3586				
Easting (SFT)	932,958.0006				
Elevation (SFT)*	317.319				

Convergence Angle	0	41	41.3567899		
Scale Factor	1.000002414				
Elevation Adjust. Factor	0.9999848219				
Combined Adjust. Factor	0.9999872358				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Vertical Determined By: 2nd Order - NGS		
Elevation Datum:	NAVD 88	
Geoid Datum:	Geoid 12B	
Latitude	33	17
Longitude	93	14
Ellipsoid Height (M):	70.261	
Geoid Height (M):	-26.458	

Location Description
SEE NGS DATASHEET

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARHP Ref Mon # 3 SHRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station T 290	Date Monumented 1/1/1984	Monumented By NGS	County FAULKNER	Route 365	Job Number: 061507
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	64,342.2509	0.0020			
Easting (M)	359,495.8169	0.0020			
Elevation (M)*	83.561				
Northing (SFT)	211,096.2015				
Easting (SFT)	1,179,445.8593				
Elevation (SFT)*	274.150				

Convergence Angle	0	15	28.4820944
Scale Factor	1.000004171		
Elevation Adjust. Factor	0.9999868867		
Combined Adjust. Factor	0.9999910577		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	MANHOLE	200	39.50	129.6	230038
MK # 2	WATERLINE MARKER	78	38.00	124.7	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	USED THIS NGS BM AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT FOR AHTD GPS POINTS 230038, 600077 & 600077A.
Ref Mon # 2 ARHR	
Ref Mon # 3 ARLR, P777	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station T 83	Date Monumented 1/1/1935	Monumented By USC&GS	County Bradley	Route NA	Job Number: 001914, 020462,070418
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	505,232.4939	0.0029	
Easting (M)	393,683.6961	0.0029	
Elevation (M)*	62.076		
Northing (SFT)	1,657,583.6071		
Easting (SFT)	1,291,610.5930		
Elevation (SFT)*	203.661		

Convergence Angle	0	2	17.1494657
Scale Factor	0.999945039		
Elevation Adjust. Factor	0.9999902583		
Combined Adjust. Factor	0.9999352979		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	33	36	55.5681564
Longitude	92	4	5.0454624
Ellipsoid Height:	36.459		
Grid Northing (Meters)	505,232.4892		
Grid Easting (Meters)	393,683.6870		

Location Description			
The station is located in Warren, 61.3 feet northwest of the northeast corner of the railway station, 25.9 feet north of the center of the main track, 6.8 feet south of the north edge of the streets' curb and level with the ground. The station mark is a cap stamped "T 83 1935" set in top of a concrete post.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARCM Ref Mon # 2 ARMO Ref Mon # 3 LTEC, IULM	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;"> This station is a NGS second order benchmark. SUPERCEDED GEOID HT. = -25.756m. SUPERCEDED REF. MON. (ARCM, IULM, S 197, K 124, 700014, 270005, 070003, 070004, 070003, T 83, N 81, 070005, LROC UAM CIS CORS) *****USED NGS ELEV. AS CONSTRAINT IN FINAL NETWORK ADJ. </td> </tr> </table>	Comments	This station is a NGS second order benchmark. SUPERCEDED GEOID HT. = -25.756m. SUPERCEDED REF. MON. (ARCM, IULM, S 197, K 124, 700014, 270005, 070003, 070004, 070003, T 83, N 81, 070005, LROC UAM CIS CORS) *****USED NGS ELEV. AS CONSTRAINT IN FINAL NETWORK ADJ.
Comments			
This station is a NGS second order benchmark. SUPERCEDED GEOID HT. = -25.756m. SUPERCEDED REF. MON. (ARCM, IULM, S 197, K 124, 700014, 270005, 070003, 070004, 070003, T 83, N 81, 070005, LROC UAM CIS CORS) *****USED NGS ELEV. AS CONSTRAINT IN FINAL NETWORK ADJ.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station TA-05	Date Monumented 1/1/1995	Monumented By MoDOT	County MO / TANEY	Route N/A	Job Number: NA
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Zone Arkansas South	Zone Code 	Vertical Determined By: GPS - Unknown Quality
Horizontal Datum 		Elevation Datum: NAVD 88
Northing (M) 	#Error 	Geoid Datum:
Easting (M) 	#Error 	Latitude
Elevation (M)* 247.300		Longitude
Northing (SFT) 	#Type! 	Ellipsoid Height (M):
Easting (SFT) 	#Type! 	Geoid Height (M):
Elevation (SFT)* 811.350		

Convergence Angle ###/###	#Error 	Location Description
Scale Factor 	#Error 	<p>THE STATION IS LOCATED ON THE NORTH SIDE OF BRANSON, MO., EAST OF U.S. HIGHWAY 65, IN THE GRASS MEDIAN JUST NORTHEAST OF THE INTERSECTION OF BUSINESS ROUTE 65 AND COMPTON DRIVE. OWNERSHIP--MISSOURI DEPARTMENT OF TRANSPORTATION. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65, STATE HIGHWAY 248, AND BUSINESS ROUTE 65, ON THE NORTH SIDE OF BRANSON, GO SOUTH, 0.16 KM (0.10 MI) ALONG BUSINESS ROUTE 65 TO COMPTON DRIVE ON THE LEFT, AND THE STATION JUST NORTHEAST OF THE JUNCTION. THE STATION IS AN ALUMINUM DNR GEOGRAPHIC REFERENCE SYSTEM SURVEY MARKER SET IN THE TOP OF A ROUND CONCRETE MONUMENT. IT IS, 25.0 M (82.0 FT) NORTH OF AND ACROSS COMPTON DRIVE FROM A FIRE HYDRANT, 20.7 M (67.9 FT) SOUTHWEST OF A STEEL RIGHT-OF-WAY POST, 17.0 M (55.8 FT) EAST OF THE BUSINESS 65 CENTERLINE, 16.3 M (53.5 FT) NORTHEAST OF THE WEST END OF A CONCRETE CURB ON THE NORTH SIDE OF THE DRIVE, 8.5 M (27.9 FT) NORTHWEST OF A UTILITY POLE (NUMBER 221) AND WITNESS POST, 7.6 M (24.9 FT) NORTHWEST OF THE COMPTON DRIVE CURB, AND THE MONUMENT IS ABOUT 1.0 M (3.3 FT) BELOW THE BUSINESS 65 LEVEL, ABOUT 1.0 M (3.3 FT) ABOVE THE DRIVE LEVEL AND FLUSH WITH THE GROUND SURFACE. BY R.G.</p>
Elevation Adjust. Factor 0.9999611921		
Combined Adjust. Factor 	#Type! 	

SUPERCEDED CONTROL			
Horizontal Datum 		Latitude 	
Longitude 		Ellipsoid Height: 	
Grid Northing (Meters) 		Grid Easting (Meters) 	

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	
MK # 2			0.00	0.0	
MK # 3			0.00	0.0	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station THOMASON	Date Monumented 4/1/1994	Monumented By 	County BOONE	Route 65	Job Number: NA
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1986)		Elevation Datum: NAVD 88
Geoid Datum: 		
Northing (M) 248,032.6456		Latitude 36 33 44.5853952
Easting (M) 287,210.7569		Longitude 93 15 35.5556196
Elevation (M)* 410.569		Ellipsoid Height (M): 381.312
		Geoid Height (M): -29.258

Northing (SFT) 813,753.7714		
Easting (SFT) 942,290.6249		
Elevation (SFT)* 1,347.008		

Convergence Angle 0 43 59.2358602		
Scale Factor 1.000081635		
Elevation Adjust. Factor 0.9999355725		
Combined Adjust. Factor 1.0000172022		

SUPERCEDED CONTROL												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Horizontal Datum</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)	
Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
Grid Northing (Meters)												
Grid Easting (Meters)												

Location Reference Marks			
Description	Azimuth	Distance	
		Meters	Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station TRASKWOOD	Date Monumented 1/1/1964	Monumented By USC&GS	County SALINE	Route N/A	Job Number: R60093
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	597,863.1289	
Easting (M)	339,869.1910	
Elevation (M)*	98.922	
Northing (SFT)	1,961,489.2821	
Easting (SFT)	1,115,054.1708	
Elevation (SFT)*	324.547	

Convergence Angle	0	21	58.4935116
Scale Factor	0.999944556		
Elevation Adjust. Factor	0.9999844762		
Combined Adjust. Factor	0.9999290330		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	BRONZE DISK " TRASKWOOD NO. 1 1964 "	396	26.34	86.4
MK # 2	BRONZE DISK " TRASKWOOD NO. 2 1964 "	141	26.87	88.2
MK # 3	NONE			

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text" value="SALIPOINT"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="MALEPOINT"/> Ref Mon # 3 <input style="width: 150px;" type="text" value="93620004"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px; vertical-align: top;"> Cross Reference Job: RX0026 </td> </tr> </table>	Comments	Cross Reference Job: RX0026
Comments			
Cross Reference Job: RX0026			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	<input style="width: 30px;" type="text" value="34"/> <input style="width: 30px;" type="text" value="26"/> <input style="width: 100px;" type="text" value="55.9403520"/>
Longitude	<input style="width: 30px;" type="text" value="92"/> <input style="width: 30px;" type="text" value="39"/> <input style="width: 100px;" type="text" value="15.7538880"/>
Ellipsoid Height (M):	<input style="width: 60px;" type="text" value="71.677"/> <input style="width: 40px;" type="text"/>
Geoid Height (M):	<input style="width: 60px;" type="text" value="-27.245"/> <input style="width: 40px;" type="text"/>

Location Description
<p>THE STATION IS LOCATED IN THE VILLAGE OF TRASKWOOD, ON THE GROUNDS OF THE TRASKWOOD MISSIONARY BAPTIST CHURCH. IT IS 41.758 METERS NORTHWEST OF OF THE SOUTHWEST CORNER OF THE CHURCH, 49.987 METERS SOUTHWEST OF THE CENTER OF MAIN STREET, 12.19 METERS SOUTHEAST OF THE CENTER OF SECOND STREET AND 9.04 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A BRONZE DISK STAMPED "TRASKWOOD 1964" SET IN A CONCRETE POST AND IS FLUSH WITH THE GROUND. THIS STATION IS A USC&GS SECOND ORDER TRIANGULATION STATION BUT THE COORDINATES ABOVE ARE BASED ON AHTD GPS OBSERVATIONS AND A LEAST SQUARES NETWORK ADJUSTMENT. THESE COORDINATES WERE ESTABLISHED BY USING FIRST ORDER CONTROL POINTS IN ACCORDANCE WITH STANDARD GPS PRACTICES AND NETWORK ADJUSTMENT PROCEDURES.</p>

AZ Mark Station	TRASKWOOD AZ.
Geodetic Azimuth	351 12 45
Grid Azimuth	351 34 43.5

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
RASKWOOD AZ	3/22/1994	AHTD	SALINE	229	R60093

Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	598,019.7228	
Easting (M)	339,846.0080	
Elevation (M)*	88.684	
Northing (SFT)	1,962,003.0406	
Easting (SFT)	1,114,978.1112	
Elevation (SFT)*	290.957	

Convergence Angle	0	21	59.0237914
Scale Factor	0.999944734		
Elevation Adjust. Factor	0.9999860828		
Combined Adjust. Factor	0.9999308176		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	216	27.40	89.9
MK # 2	NONE			
MK # 3	NONE			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	TRASKWOOD
Ref Mon # 2	NONE
Ref Mon # 3	NONE
Cross Reference Job: RX0026	

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 34 27 1.0176228

Longitude 92 39 16.7013396

Ellipsoid Height (M): 61.480

Geoid Height (M): -27.248

Location Description

FROM THE JCT. OF HWY. 229, MAIN AND FIRST STREETS IN THE VILLAGE OF TRASKWOOD SOUTHEAST OF BENTON, GO NORTHEAST ON EAST FIRST STREET FOR 57.00 METERS (187.01 FEET) TO THE STATION ON THE LEFT. THE STATION IS 9.30 METERS NORTHWEST OF THE CENTER OF EAST FIRST STREET, 11.60 METERS SOUTHEAST OF THE SOUTHEAST RAIL OF THE RAILROAD TRACKS, 57.00 METERS NORTHEAST OF THE CENTERLINE OF HWY. 229 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "TRASKWOOD AZ." SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station TRI-COUNTY	Date Monumented 2/11/1997	Monumented By NGS	County BAXTER	Route 14	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	185,160.8539	
Easting (M)	363,451.5930	
Elevation (M)*	388.500	
Northing (SFT)	607,481.9015	
Easting (SFT)	1,192,424.1014	
Elevation (SFT)*	1,274.604	

Convergence Angle	0	14	9.2067682
Scale Factor	0.999962400		
Elevation Adjust. Factor	0.9999390354		
Combined Adjust. Factor	0.9999014377		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 100px;"> Comments </div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 0 5.8412952
Longitude	92 24 19.3710960
Ellipsoid Height (M):	360.440
Geoid Height (M):	-28.040

Location Description
<p>THE STATION IS LOCATED IN THE CITY OF BIG FLAT, ON THE FORMER TRI-COUNTY SCHOOL SITE. PROPERTY IS NOW OWNED BY THE CITY. TO REACH THE STATION FROM THE OLD BIG FLAT POST OFFICE BUILDING, GO SOUTH ON STATE HIGHWAY 14 FOR 0.20 MI (0.32 KM) TO THE NEW POST OFFICE ON THE RIGHT. CONTINUE SOUTHERLY ALONG THE HIGHWAY FOR 0.10 MI (0.16 KM) TO THE STATION ON THE LEFT. THE STATION IS 263 FT (80.2 M) SOUTHEAST OF THE CENTERLINE OF HIGHWAY 14, 2.4 FT (0.7 M) NORTH OF FENCE ENCLOSING ATHLETIC FIELD, 261.6 FT (79.7 M) NORTHWEST OF THE CENTERLINE OF THE COUNTY ROAD, 130.75 FT (39.85 M) FROM THE SOUTHWEST CORNER OF THE OLD SCHOOL BUILDING, 158.42 FT (48.29 M) FROM THE NORTHWEST CORNER OF THE FIRE STATION BUILDING, 39.39 FT (12.01 M) SOUTHWEST FROM THE SOUTHWEST CORNER OF A 9 FOOT (2.7 M) SQUARE CONCRETE PAD AND 56.76 FEET (17.30 M) WEST FROM THE SOUTHWEST CORNER OF A SECOND 9 FOOT (2.7 M) SQUARE CONCRETE PAD. FOR ADDITIONAL INFORMATION CONTACT PAUL WALLA, ASPS, PHONE 501-756-2772.</p>

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station TT 3 E 1932	Date Monumented 4/15/1905	Monumented By USC & GS	County UNION	Route 275	Job Number: 070459
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	449,390.3043	0.0030			
Easting (M)	366,722.3655	0.0030			
Elevation (M)*					
Northing (SFT)	1,474,374.6900				
Easting (SFT)	1,203,154.9608				
Elevation (SFT)*					

Convergence Angle	0	11	58.3503697
Scale Factor	1.000047156		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE AND TELEPHONE BOXES	342	1.52	5.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARMO</td> </tr> <tr> <td>Ref Mon # 3</td> <td>IULM</td> </tr> </table>	Ref Mon # 1	ARCM	Ref Mon # 2	ARMO	Ref Mon # 3	IULM	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>GPS DERIVED ELEV. BASED ON CORS SITES ARCM & ARMO HELD FIXED IN STATIC NETWORK ADJUSTMENT.</td> </tr> </table>	Comments	GPS DERIVED ELEV. BASED ON CORS SITES ARCM & ARMO HELD FIXED IN STATIC NETWORK ADJUSTMENT.
Ref Mon # 1	ARCM								
Ref Mon # 2	ARMO								
Ref Mon # 3	IULM								
Comments									
GPS DERIVED ELEV. BASED ON CORS SITES ARCM & ARMO HELD FIXED IN STATIC NETWORK ADJUSTMENT.									

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 129S AND STATE HIGHWAY 275N AND STATE HIGHWAY 82, IN STRONG, GO NORTH ON HIGHWAY 275 1 BLOCK TO THE MARK ON THE RIGHT, IN THE SOUTHEAST CORNER OF THE INTERSECTION, 27.5' EAST OF THE C/L OF HIGHWAY 275 AND SOUTH 28' OF THE C/L OF RAILROAD STREET. THE MARK IS A STANDARD 3' CAP SET IN CONCRTE STAMPED "TT 3 E 1932".

AZ Mark Station	N/A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station TT 30 RDM	Date Monumented 1/1/1959	Monumented By USC&GS	County WHITE	Route 36	Job Number: 005980
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	109,539.9601	
Easting (M)	398,744.5360	
Elevation (M)*	234.199	
Northing (SFT)	359,382.3524	
Easting (SFT)	1,308,214.3652	
Elevation (SFT)*	768.368	

Convergence Angle	0	0	28.9246317
Scale Factor	0.999946454		
Elevation Adjust. Factor	0.9999632479		
Combined Adjust. Factor	0.9999097039		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station
MK # 2	NONE				Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>SEARPORT</td> </tr> <tr> <td>Ref Mon # 2</td> <td>HEBEPOR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	SEARPORT	Ref Mon # 2	HEBEPOR	Ref Mon # 3	NONE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>NGS SECOND ORDER MARK</td> </tr> </table>	Comments	NGS SECOND ORDER MARK
Ref Mon # 1	SEARPORT								
Ref Mon # 2	HEBEPOR								
Ref Mon # 3	NONE								
Comments									
NGS SECOND ORDER MARK									

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station TTS C 19	Date Monumented 1/1/1933	Monumented By USGS	County MO / OZARK	Route N/A	Job Number: NA
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Zone Arkansas South	Zone Code 	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum 		Elevation Datum: NAVD 88
Northing (M) 	#Error 	Geoid Datum:
Easting (M) 	#Error 	Latitude
Elevation (M)* 323.113		Longitude
Northing (SFT) 	#Type! 	Ellipsoid Height (M):
Easting (SFT) 	#Type! 	Geoid Height (M):
Elevation (SFT)* 1,060.080		

Convergence Angle ###/###	#Error 	Location Description
Scale Factor 	#Error 	<p>THE STATION IS LOCATED NEAR THE EAST EDGE OF GAINSVILLE, MO., ABOUT 68.4 KM (42.50 MI) EAST-SOUTHEAST OF BRANSON, MO., ALONG THE SOUTH SIDE OF STATE HIGHWAY 181, AT THE INTERSECTION OF HIGHWAY 181 AND BULLDOG DRIVE, IN A GRASS ISLAND BETWEEN THE HIGHWAY AND A PARKING LOT. OWNERSHIP--STATE OF MISSOURI. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 160 AND STATE HIGHWAY 181 NEAR THE EAST EDGE OF GAINSVILLE, GO NORTHERLY, 1.4 KM (0.85 MI) ALONG HIGHWAY 181 TO THE INTERSECTION OF BULLDOG DRIVE AND THE STATION ON THE RIGHT, IN THE GRASS ISLAND. STATION IS 28.6 M (93.8 FT) EAST-NORTHEAST OF THE NORTHEAST CORNER OF A STONE BUILDING, 18.0 M (59.1 FT) SOUTH OF THE INTERSECTION CENTER, 18.0 M (59.1 FT) WEST OF A UTILITY POLE WITH TRANSFORMER, 8.1 M (26.6 FT) NORTHWEST OF A GRAVEL DRIVE CENTER, 6.1 M (20.0 FT) SOUTHWEST OF A HIGHWAY 181 SIGN POST AND WITNESS POST, AND THE MONUMENT IS ABOUT LEVEL WITH THE HIGHWAY AND PROJECTING ABOUT 15-CM ABOVE THE GROUND SURFACE. BY R.G. HAYES.</p>
Elevation Adjust. Factor 0.9999492956		
Combined Adjust. Factor 	#Type! 	

SUPERCEDED CONTROL				
Horizontal Datum 		Latitude 		
Longitude 		Ellipsoid Height: 		
Grid Northing (Meters) 		Grid Easting (Meters) 		

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	
MK # 2			0.00	0.0	
MK # 3			0.00	0.0	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station U 18	Date Monumented	Monumented By	County NA	Route NA	Job Number: 090157
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Zone Arkansas North	Zone Code 301	Vertical Determined By: NONE
Horizontal Datum NAD 83 (1997)		Elevation Datum: NONE
Northing (M) 178,841.7380		Geoid Datum:
Easting (M) 294,781.0430		Latitude 35 56 23.0359272
Elevation (M)*		Longitude 93 9 58.2122520
Northing (SFT) 586,749.9354		Ellipsoid Height (M): 611.284
Easting (SFT) 967,127.4719		Geoid Height (M): -28.016
Elevation (SFT)*		

Convergence Angle 0 40 42.9360488	
Scale Factor 0.999955129	
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL
Horizontal Datum
Latitude
Longitude
Ellipsoid Height:
Grid Northing (Meters)
Grid Easting (Meters)

Location Reference Marks			
Description	Azimuth	Distance	
		Meters	Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station U 298	Date Monumented 1/1/1985	Monumented By NGS	County SEBASTIAN	Route N/A	Job Number: 040823
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	99,923.8262 0.0030
Easting (M)	191,164.9579 0.0040
Elevation (M)*	

Northing (SFT)	327,833.4198	
Easting (SFT)	627,180.3660	
Elevation (SFT)*		

Convergence Angle	-1	20	5.3181417
Scale Factor	0.999956902		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

DESCRIBED BY NATIONAL GEODETIC SURVEY 1985
 '6.9 KM (4.25 MI) SOUTH FROM GREENWOOD.
 '5.1 KM (3.15 MI) WEST ALONG STATE ROUTE 10S SPUR FROM
 THE SEBASTIAN COUNTY COURTHOUSE IN GREENWOOD,
 THENCE 1.8 KM (1.1 MI) SOUTH ALONG
 'U.S. HIGHWAY 71, THENCE 0.16 KM (0.1 MI) EAST ALONG
 COUNTY ROAD 51, AT 'THE NORTHWEST CORNER OF CROSS
 CEMETERY, 6.3 METERS (20.5 FT) SOUTH OF 'THE
 APPROXIMATE CENTER OF THE COUNTY ROAD, 0.31 METERS
 (1.0 FT) NORTH OF A CYCLONE FENCE OF THE CEMETERY, 17.6
 METERS (57.8 FT) EAST OF A METAL CORNER FENCE POST, 3.0
 METERS (10.0 FT) WEST OF THE CENTER OF A WIRE GATE
 LEADING TO THE CEMETERY, AND 6.9 METERS (22.7 FT) 'WEST-
 SOUTHWEST OF A COUNTY ROAD 51 SIGN POST. NOTE,
 DRIVEN TO GRADUAL
 'REFUSAL. 'THE MARK IS 0.31 METERS N FROM A WITNESS
 POST. 'THE MARK IS ABOVE LEVEL WITH COUNTY ROAD.

Location Reference Marks

Description	Azimuth	Distance			
		Meters	Feet		
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARDQ
Ref Mon # 2	ARFY
Ref Mon # 3	ARRV

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station U 5 OFFSET	Date Monumented 2/1/2006	Monumented By AHTD	County CARROLL	Route NA	Job Number: 090197
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	231,075.7081	
Easting (M)	257,732.0970	
Elevation (M)*	319.447	
Northing (SFT)	758,120.8857	
Easting (SFT)	845,576.0549	
Elevation (SFT)*	1,048.051	

Convergence Angle	0	55	22.5299340
Scale Factor	1.000038640		
Elevation Adjust. Factor	0.9999498709		
Combined Adjust. Factor	0.9999885090		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	SOUTHEAST CORNER BARN	231	23.04	75.6	
MK # 2	NORTHEAST CORNER BARN	282	28.77	94.4	
MK # 3	LIGHT POLE	78	23.77	78.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARP2 Ref Mon # 2 ARFY Ref Mon # 3 ARH	ELEVATION WAS DETERMINED BY 3 WIRE LEVEL RUN FROM U5 BY CREW S5102 2/1/06.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station U 79	Date Monumented 1/1/1935	Monumented By NGS	County SALINE	Route 183	Job Number: 061206
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	609,728.4879
Easting (M)	349,018.1190
Elevation (M)*	106.347
Northing (SFT)	2,000,417.5474
Easting (SFT)	1,145,070.2788
Elevation (SFT)*	348.907

Convergence Angle	0 18 39.3002713
Scale Factor	0.999959854
Elevation Adjust. Factor	0.9999833110
Combined Adjust. Factor	0.9999431656

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	2nd Order by NGS
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 33 22.7668860
Longitude	92 33 19.8550944
Ellipsoid Height (M):	80.101
Geoid Height (M):	-26.246

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 183 AND STATE HIGHWAY 35, EAST OF BENTON, GO NORTH ON 183 FOR 0.8 MILES TO THE STATION MARK ON THE RIGHT, 107 FEET EAST OF YUMA DRIVE. SOUTH 14.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 1.0 FOOT OF A WITNESS POST. THE STATION MARK IS A STANDARD DISK, STAMPED "U 79 1935" SET IN THE TOP OF A CONCRETE POST PROJECTING 0.3 FEET ABOVE THE GROUND.</p>

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARLR</p> <p>Ref Mon # 2 ARCM</p> <p>Ref Mon # 3 DQUA</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station V 165	Date Monumented 1/1/1955	Monumented By USC&GS	County INDEPENDENCE	Route 167	Job Number: 050070
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Zone Arkansas North	Zone Code 301	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Vertical Determined By:</td> <td colspan="3">LEVEL - Unkown Quality</td> </tr> <tr> <td>Elevation Datum:</td> <td colspan="3">NAVD 88</td> </tr> <tr> <td>Geoid Datum:</td> <td colspan="3"></td> </tr> <tr> <td>Latitude</td> <td>35</td> <td>55</td> <td>31.7980416</td> </tr> <tr> <td>Longitude</td> <td>91</td> <td>33</td> <td>1.3370328</td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td>176.046</td> <td colspan="2"></td> </tr> <tr> <td>Geoid Height (M):</td> <td>-27.720</td> <td colspan="2"></td> </tr> </table>	Vertical Determined By:	LEVEL - Unkown Quality			Elevation Datum:	NAVD 88			Geoid Datum:				Latitude	35	55	31.7980416	Longitude	91	33	1.3370328	Ellipsoid Height (M):	176.046			Geoid Height (M):	-27.720		
Vertical Determined By:	LEVEL - Unkown Quality																													
Elevation Datum:	NAVD 88																													
Geoid Datum:																														
Latitude	35		55	31.7980416																										
Longitude	91		33	1.3370328																										
Ellipsoid Height (M):	176.046																													
Geoid Height (M):	-27.720																													
Horizontal Datum	NAD 83 (1997)																													
Northing (M)	176,732.1239																													
Easting (M)	440,576.2460																													
Elevation (M)*	203.766																													
Northing (SFT)	579,828.6432																													
Easting (SFT)	1,445,457.2338																													
Elevation (SFT)*	668.522																													

Convergence Angle	0	15	41.8985692
Scale Factor	0.999953622		
Elevation Adjust. Factor	0.9999680235		
Combined Adjust. Factor	0.9999216470		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO SOUTH ON U.S. HIGHWAY 167 FOR 1.34 KM (0.83 KM) TO THE STATION ON THE RIGHT. THE STATION IS 16.20 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 8.05 METERS EAST OF A WITNESS POST. THE STATION MARK IS A USC&GS BENCH MARK DISK STAMPED "V 165 1955" SET IN THE TOP OF 1.52 X 2.74 METER ROCK OUTCROP.

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NONE				
MK # 2	NONE				
MK # 3	NONE				

AZ Mark Station	320019
Geodetic Azimuth	174 48 35.38818
Grid Azimuth	174 32 53.49659

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 Q 313	Elevation established by NGS
Ref Mon # 2 FAA 7M9 A	
Ref Mon # 3 BATEPORT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station V 26	Date Monumented 1/1/1932	Monumented By CGS	County BENTON	Route 71	Job Number: 090240, 09X007, 090472
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	215,327.1421	
Easting (M)	208,482.3437	
Elevation (M)*	409.333	
Northing (SFT)	706,452.4654	
Easting (SFT)	683,995.8226	
Elevation (SFT)*	1,342.953	

Convergence Angle	-1	14	24.4376066
Scale Factor	1.000004459		
Elevation Adjust. Factor	0.9999357664		
Combined Adjust. Factor	0.9999402251		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1997)		
Latitude	36	15	19.7589384
Longitude	94	7	52.1851548
Ellipsoid Height:	381.130		
Grid Northing (Meters)	215,327.1340		
Grid Easting (Meters)	208,482.3330		

Location Description			
<p>THE STATION IS LOCATED ABOUT 15 KM (9.30 MI) SOUTHEAST OF BENTONVILLE, 9 KM (5.60 MI) SOUTH OF ROGERS, ON THE EAST SIDE OF THE TOWN OF LOWELL, BETWEEN A RAILROAD AND A PAVED CITY STREET. OWNERSHIP--BURLINGTON NORTHERN RAILROAD. TO REACH FROM THE OVERPASS AT THE JUNCTION OF U.S. HIGHWAY 71 (IN 1996 THIS HIGHWAY WILL BE INTERSTATE HIGHWAY 540) AND STATE HIGHWAY 264 (EXIT 59) ON THE WEST SIDE OF LOWELL, GO EAST ON HIGHWAY 264 (MONROE AVENUE) FOR 1.53 KM (0.95 MI) TO A PAVED CROSSROAD (U.S. HIGHWAY 71B). TURN LEFT, NORTH ON HIGHWAY 71B (NORTH BLOOMINGTON STREET) FOR 0.39 KM (0.25 MI) TO A PAVED CROSSROAD. TURN RIGHT, EAST ON MCCLURE AVENUE FOR 0.44 KM (0.25 MI) TO A PAVED CROSSROAD JUST PAST A RAILROAD CROSSING. TURN RIGHT, SOUTH ON JACKSON STREET FOR 0.24 KM (0.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS SET IN THE TOP OF A 30 CM SQUARE CONCRETE POST PROJECTING 10 CM ABOVE THE GROUND. IT IS 68.4 M (224.4 FT) NORTH-NORTHWEST OF A FIRE HYDRANT LOCATED ABOUT IN LINE WITH THE EXTENDED CENTER OF ADAMS AVENUE, 21.5 M (70.5 FT) WEST-SOUTHWEST OF THE CENTER OF JACKSON STREET, 13.1 M (43.0 FT) EAST-NORTHEAST OF THE EAST RAIL OF THE EAST SET OF TRACKS AND 0.5 M (1.6 FT) NORTHEAST</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <p>NGS 1st ORDER MARK USED AS CONSTRAINT IN FINAL GPS STATIC NETWORK ADJUSTMENT IN NOV. 2015 BY S5112 FOR JOB #090472 TO ESTABLISH VERTICAL ON GPS MONUMENTS 040042 & 040042A.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station V 289 1984	Date Monumented 	Monumented By NOAA	County JEFFERSON	Route 65	Job Number: R20091
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	561,854.8770	
Easting (M)	421,143.3030	
Elevation (M)*	57.015	
Northing (SFT)	1,843,352.2090	
Easting (SFT)	1,381,700.9866	
Elevation (SFT)*	187.057	

Convergence Angle	0	7	41.8486726
Scale Factor	0.999919735		
Elevation Adjust. Factor	0.9999910526		
Combined Adjust. Factor	0.9999107883		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	NORTHWEST CORNER OF RED BRICK HOU	51	24.38	80.0	V 289 AZ 1995
MK # 2	GAS METER	78	1.43	4.7	322 54 45.34515
MK # 3	TELEPHONE JUNCTION BOX NUMBER 27 3	347	0.91	3.0	322 47 03.48744

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 TARRY 1940	THIS STATION IS A NOAA BENCH MARK.
Ref Mon # 2 DIST2 1995	
Ref Mon # 3 NONE	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
V 289 AZ 1995	7/19/1995	AHTD	JEFFERSON	65	R20091

Zone	Zone Code	Vertical Determined By:
Arkansas South	302	LEVEL - Unkown Quality
Horizontal Datum	NAD 83 (1986)	
Northing (M)	562,310.9220	
Easting (M)	420,796.9490	
Elevation (M)*	56.806	
Northing (SFT)	1,844,848.4166	
Easting (SFT)	1,380,564.6568	
Elevation (SFT)*	186.371	

Convergence Angle	0	7	34.3049739
Scale Factor	0.999919852		
Elevation Adjust. Factor	0.9999910854		
Combined Adjust. Factor	0.9999109381		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	10	3.10	10.2
MK # 2	POWER POLE NUMBER 3525	48	2.15	7.1
MK # 3	18" CONCRETE PIPE	155	17.00	55.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	THE ELEVATION OF THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING STATION "V 289 1984".
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station V 333	Date Monumented 2/2/2012	Monumented By ARDOT	County WASHINGTON	Route 112	Job Number: 012270
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	199,911.9209 0.0010
Easting (M)	203,733.8464 0.0010
Elevation (M)*	373.889
Northing (SFT)	655,877.6938
Easting (SFT)	668,416.7944
Elevation (SFT)*	1,226.667

Convergence Angle	-1	16	7.1379893
Scale Factor	0.999978858		
Elevation Adjust. Factor	0.9999413281		
Combined Adjust. Factor	0.9999201873		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FLAG POLE	268	5.61	18.4
MK # 2	SE CORNER 1-S-BRICK BLDING	55	16.76	55.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 CTA1 Ref Mon # 3 MOA2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.
Comments			
ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B
Latitude	36 6 56.3797296
Longitude	94 10 48.6764616
Ellipsoid Height (M):	345.801 0.0001
Geoid Height (M):	-28.088 0.0000

Location Description
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND I 49, IN FAYETTEVILLE, GO NORTH ON HIGHWAY 112 0.7 MILES TO THE MARK ON THE RIGHT, 138.6' EAST OF THE C/L OF THE HIGHWAY AND NORTH 21.9' OF THE C/L OF A CONCRETE DRIVE TO ARDOT MAINTENANCE YARD. THE MARK IS A STANDARD NGS ROD MARK SET UNDER A A LOGO CAP STAMPED "2012 V 333" DRIVEN TO REFUSAL.

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station VILLPORT	Date Monumented 1/1/1990	Monumented By NGS	County MISSISSIPPI	Route 18	Job Number: NA
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	180,700.0459	
Easting (M)	595,632.0580	
Elevation (M)*	77.100	
Northing (SFT)	592,846.7339	
Easting (SFT)	1,954,169.5103	
Elevation (SFT)*	252.952	

Convergence Angle	1	15	42.5432827
Scale Factor	0.999955449		
Elevation Adjust. Factor	0.9999879006		
Combined Adjust. Factor	0.9999433502		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>THE STATION IS LOCATED ABOUT 9 KM (5.60 MI) SOUTHWEST OF HUFFMAN, 7 KM (4.35 MI) EAST OF BLYTHEVILLE, 3 KM (1.85 MI) NORTH OF ARMOREL, AT THE BLYTHEVILLE MUNICIPAL AIRPORT. OWNERSHIP--CITY OF BLYTHEVILLE, PO BOX 171, BLYTHEVILLE AR 72315, AIRPORT MANAGER IS WALLEY THOMAS, PHONE 501-763-9691. TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAY 55 AND STATE HIGHWAY 18 (EXIT 67) IN EAST BLYTHEVILLE, GO EAST ON HIGHWAY 18 FOR 2.43 KM (1.50 MI) TO THE AIRPORT ENTRANCE ROAD (COUNTY HIGHWAY 980) ON THE LEFT. TURN LEFT, NORTHEAST AND EAST ON THE ROAD FOR 1.89 KM (1.15 MI) TO A GATE AND THE AIRPORT OFFICE ON THE LEFT. PASS THROUGH THE GATE, EAST ACROSS THE APRON FOR ABOUT 30 M (98.4 FT) TO A TAXIWAY. TURN LEFT, NORTH ALONG THE TAXIWAY FOR 0.61 KM (0.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD IN A 2.5 CM GREASE-FILLED SLEEVE 93 CM LONG ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE SET FLUSH WITH THE GROUND. IT IS 63.3 M (207.7 FT) WEST OF THE RUNWAY CENTER, 26.0 M (85.3 FT) WEST OF THE EXTENDED CENTER OF THE STOP LINE, 17.2 M (56.4 FT) WEST OF THE WEST END OF THE NORTH HEADWALL OF A CULVERT</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station VINE	Date Monumented 1/1/1971	Monumented By USC&GS	County CRAWFORD	Route N/A	Job Number: 040351
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	133,167.6441	
Easting (M)	208,297.3830	
Elevation (M)*		
Northing (SFT)	436,900.8457	
Easting (SFT)	683,388.9974	
Elevation (SFT)*		

Convergence Angle	-1	13	47.6427503
Scale Factor	0.999936659		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE UNITED STATES POST OFFICE IN DYER, GO NORTH ON MAIN STREET FOR 0.515 KM (0.32 MI) TO U.S. HIGHWAY 64, TURN RIGHT (EAST) ON U.S. HIGHWAY 64 AND GO EAST 3.058 KM (1.90 MI) TO GEORGIA RIDGE ROAD, TURN LEFT (NORTH) ON GEORGIA RIDGE ROAD AND GO NORTH 0.435 KM (0.27 MI) TO THE STATION ON THE LEFT. THE STATION IS 23.50 METERS SOUTH OF THE CENTER OF THE EAST BOUND LANES OF I 40, 6.35 METERS WEST OF THE CENTER OF GEORGIA RIDGE ROAD, AND 1.080 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD USC&GS TRIANGULATION STATION DISK STAMPED "VINE 1971" SET IN THE TOP OF A 12 - INCH CYLINDRICAL CONCRETE MONUMENT SET FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 463.497 METERS.</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	USC&GS REFERENCE MARK NUMBER 2	147		9.30	30.5
MK # 2	SOUTHWEST CORNER OF OVERPASS	9		1.20	3.9
MK # 3	SOUTHEAST CORNER OF OVERPASS	46		13.00	42.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="GAYLOR"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="OZARPORT"/> Ref Mon # 3 <input style="width: 150px;" type="text" value="AHTD FS 2"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station VINE AZ	Date Monumented 1/1/1971	Monumented By USC&GS	County CRAWFORD	Route 64	Job Number: 040351
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	132,705.2320	
Easting (M)	208,328.4330	
Elevation (M)*		
Northing (SFT)	435,383.7487	
Easting (SFT)	683,490.8673	
Elevation (SFT)*		

Convergence Angle	-1	13	46.6966550
Scale Factor	0.999936749		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>TO REACH THE STATION FROM THE UNITED STATES POST OFFICE IN DYER, GO NORTH ON MAIN STREET FOR 0.515 KM (0.32 MI) TO U.S. HIGHWAY 64, TURN RIGHT (EAST) ON U.S. HIGHWAY 64 AND GO EAST 3.09 KM (1.92 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.60 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64, 13.60 METERS EAST OF A GRAVEL DRIVE, AND 0.56 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD USC&GS DISK (AZIMUTH MARK) STAMPED "VINE 1971" SET IN THE TOP OF A 12 - INCH CYLINDRICAL CONCRETE MONUMENT THAT IS SET 3 INCHES ABOVE THE GROUND. THE SHOT DISTANCE IS 463.497 METERS.</p>				

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	POWER POLE	87	14.00	45.9		
MK # 2	GUY POLE	170	0.49	1.6		
MK # 3	CORRIGATED METAL PIPE	305	11.20	36.7		

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1: GAYLOR</p> <p>Ref Mon # 2: OZARPORT</p> <p>Ref Mon # 3: AHTD FS 2</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station W 15 OFFSET	Date Monumented 1/2/1932	Monumented By AHTD	County CROSS	Route 284	Job Number: R10071
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	99,622.2142	
Easting (M)	509,764.8040	
Elevation (M)*	76.214	
Northing (SFT)	326,843.8811	
Easting (SFT)	1,672,453.3611	
Elevation (SFT)*	250.045	

Convergence Angle	0	42	5.9464082
Scale Factor	0.999955447		
Elevation Adjust. Factor	0.9999880397		
Combined Adjust. Factor	0.9999434872		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64, U.S. HIGHWAY 64S AND STATE HIGHWAY 1, LOCATED ON THE NORTHWEST SIDE OF WYNNE, GO SOUTH ON U.S. HIGHWAY 64S FOR 1.16 KM (1.00 MI) TO THE END OF U.S. HIGHWAY 64S AND THE BEGINING OF M.L. KING STREET, CONTINUE SOUTH ON M.L. KING STREET FOR 1.45 KM (0.90 MI) TO THE STATION ON THE RIGHT. THE STATION IS 31.70 METERS WEST OF THE CENTER OF M.L. KING STREET, 24.45 METERS NORTH OF NORTH RAIL, 21.25 SOUTH OF SOUTH RAIL AND 0.50 WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "W 15 OFFSET" SET ON TOP OF AN IROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 665.917.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NONE				AZ Mark Station
MK # 2	NONE				Geodetic Azimuth
MK # 3	NONE				Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 BRINKLEYPORT	<p>3 WIRE LEVEL FROM NGS PT W 15</p>
Ref Mon # 2 NEWSPORT	
Ref Mon # 3 MEM2	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station W 201	Date Monumented 1/1/1960	Monumented By CGS	County UNION	Route N/A	Job Number: 070418
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	464,750.5548	0.0026			
Easting (M)	367,416.4848	0.0026			
Elevation (M)*	48.262				
Northing (SFT)	1,524,769.1119				
Easting (SFT)	1,205,432.2505				
Elevation (SFT)*	158.340				

Convergence Angle	0	11	44.4993188
Scale Factor	1.000011479		
Elevation Adjust. Factor	0.9999924262		
Combined Adjust. Factor	1.0000039051		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description	Azimuth	Distance	
		Meters	Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	USED NGS ELEV. AS CONSTRAINT IN FINAL NETWORK ADJ.
Ref Mon # 2 ARMO	
Ref Mon # 3 LTEC, IULM	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station W 310	Date Monumented 1/1/1989	Monumented By ARDOT	County WASHINGTON	Route 71	Job Number: 04X114
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	183,335.8915 0.0030
Easting (M)	204,485.3387 0.0040
Elevation (M)*	393.897
Northing (SFT)	601,494.5040
Easting (SFT)	670,882.3154
Elevation (SFT)*	1,292.310

Convergence Angle	-1 15 41.1654917
Scale Factor	0.999958125
Elevation Adjust. Factor	0.9999381885
Combined Adjust. Factor	0.9998963161

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	1st Order - NGS
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 57 59.2359552
Longitude	94 10 4.0424412
Ellipsoid Height (M):	365.818
Geoid Height (M):	-28.079

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 156E, SOUTH OF FAYETTEVILLE, GO SOUTH ON HIGHWAY 71 4.0 MILES THE MARK ON THE RIGHT, WEST 33.6' OF THE C/L OF THE HIGHWAY. THE MARK IS A METAL ROD DRIVEN INTO THE GROUND SUROUNDED BY A NGS CASE.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	343	13.75	45.1
MK # 2	SOUTHEAST CORNER OF BARN	265	15.20	49.9
MK # 3	COMBINATION POLE W/4 GUYS	190	9.75	32.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFS</p> <p>Ref Mon # 2 ARFY</p> <p>Ref Mon # 3 ARR V</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station W 343	Date Monumented 1/1/1989	Monumented By NGS	County MO / GREENE	Route N/A	Job Number: NA
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Zone Arkansas South	Zone Code
Horizontal Datum	
Northing (M)	#Error
Easting (M)	#Error
Elevation (M)*	377.603
Northing (SFT)	#Type!
Easting (SFT)	#Type!
Elevation (SFT)*	1,238.853

Convergence Angle	###/###	#Error
Scale Factor		#Error
Elevation Adjust. Factor	0.9999407453	
Combined Adjust. Factor	#Type!	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
<p>THE STATION IS LOCATED ON THE WEST SIDE OF SPRINGFIELD, ABOUT 6.1 KM (3.80 MI) SOUTH OF INTERSTATE HIGHWAY 44, ALONG THE EAST SIDE OF U.S. HIGHWAY 160 NORTH (WEST BYPASS), IN THE TOP OF AND NEAR THE CENTER OF AN 8 FT (2.4 M) BY 10 FT (3.0 M) AREA OF EXPOSED ROCK OUTCROP IN A HIGHWAY CUT, ABOUT 1.0 M (3.3 FT) ABOVE THE HIGHWAY. OWNERSHIP--MISSOURI DEPARTMENT OF TRANSPORTATION. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 13 (SUNSHINE ST) AND U.S. HIGHWAY 160 NORTH (WEST BYPASS) ON THE WEST SIDE OF SPRINGFIELD, GO NORTH FOR 0.8 KM (0.50 MI) ON THE BYPASS TO THE STATION ON RIGHT. LOCATED 10.1 M (33.1 FT) EAST OF THE ROAD CENTERLINE, 1.86 M (6.10 FT) SOUTH-SOUTHWEST OF A WITNESS POST AND FLUSH WITH THE ROCK SURFACE. NOTE--MR. HOWARD HENDERSON, INSPECTOR, CONSTRUCTION PARTY CHIEF, CONSTRUCTION DIVISION OF THE MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT, PHONE 417-895-6720, INFORMED THE SURVEY SECTION THAT THE STATION WOULD BE DESTROYED DURING THE SCHEDULED WIDENING OF U.S. HIGHWAY 160.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
W H PHILLIPS	4/19/1997	NGS	NEWTON	7	090288

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	185,252.9629	
Easting (M)	293,320.2940	
Elevation (M)*	387.100	
Northing (SFT)	607,784.0958	
Easting (SFT)	962,334.9979	
Elevation (SFT)*	1,270.011	

Convergence Angle	0	41	18.6366084
Scale Factor	0.999961861		
Elevation Adjust. Factor	0.9999392551		
Combined Adjust. Factor	0.9999011184		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station W H Phillips-1	Date Monumented	Monumented By	County NA	Route NA	Job Number: 090157
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Zone Arkansas South	Zone Code	Vertical Determined By:
Horizontal Datum		Elevation Datum:
Northing (M)	#Error	Geoid Datum:
Easting (M)	#Error	Latitude
Elevation (M)*		Longitude
Northing (SFT)	#Type!	Ellipsoid Height (M):
Easting (SFT)	#Type!	Geoid Height (M):
Elevation (SFT)*		

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			
Combined Adjust. Factor			#Type!

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	Comments <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station WALNUT	Date Monumented 1/1/1993	Monumented By NGS	County OK / LEFLORE	Route N/A	Job Number: NA
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (1997)
Northing (M)	613,562.0099
Easting (M)	169,934.8160
Elevation (M)*	603.600
Northing (SFT)	2,012,994.6941
Easting (SFT)	557,527.8088
Elevation (SFT)*	1,980.311

Convergence Angle	-1	24	12.1508001
Scale Factor	0.999961523		
Elevation Adjust. Factor	0.9999052844		
Combined Adjust. Factor	0.9998668111		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>THE STATION IS LOCATED ABOUT 18 KM (11.20 MI) NORTHEAST OF SMITHVILLE, 4 KM (2.50 MI) NORTH OF THE LE FLORE COUNTY LINE, 2 KM (1.25 MI) WEST OF THE ARKANSAS BORDER, IN BRUSH IN A SMALL CLEARING, IN THE SOUTHEAST ONE OF FOUR TOWER LEG FOUNDATIONS, ON THE HIGHEST POINT ON WALNUT MOUNTAIN IN OUACHITA NATIONAL FOREST. OWNERSHIP--U.S. GOVERNMENT. TO REACH FROM THE T-JUNCTION OF US HIGHWAY 259 AND STATE HIGHWAY 4 ON THE WEST SIDE OF SMITHVILLE, GO NORTH ON HIGHWAY 259 FOR 5.05 KM (3.15 MI) TO THE LE FLORE COUNTY LINE. CONTINUE AHEAD, NORTH-NORTHWEST, ON HIGHWAY 259 FOR 0.78 KM (0.50 MI) TO A GRAVEL CROSSROAD. TURN RIGHT, EAST, ON THE GRAVEL ROAD FOR 5.97 KM (3.70 MI) TO A WOODEN BRIDGE OVER A CREEK. CONTINUE AHEAD, NORTHEAST, ON THE GRAVEL ROAD FOR 2.99 KM (1.85 MI) TO A WOODEN BRIDGE JUST AFTER A DIRT CROSSROAD. CONTINUE AHEAD, EAST, ON THE GRAVEL ROAD FOR 2.83 KM (1.75 MI) TO A GRAVEL CROSSROAD JUST AFTER THE BEGINNING OF PAVEMENT. CONTINUE AHEAD, EAST, ON THE PAVED ROAD FOR 1.22 KM (0.75 MI) TO THE CENTER ONE OF THREE SMALL WOODEN BRIDGES. CONTINUE AHEAD, EAST, ON THE PAVED ROAD FOR 1.91 KM (1.20 MI) TO A DOUBLE DIRT Y-JUNCTION ON THE</p>				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	
MK # 2			0.00	0.0	
MK # 3			0.00	0.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station WARRPORT	Date Monumented 1/1/1990	Monumented By NGS	County BRADLEY	Route 63	Job Number: 001873,020462
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	499,483.1021	
Easting (M)	392,347.3200	
Elevation (M)*		
Northing (SFT)	1,638,720.8108	
Easting (SFT)	1,287,226.1657	
Elevation (SFT)*		

Convergence Angle	0	2	46.0664313
Scale Factor	0.999952015		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 33 48.9171888
Longitude	92 4 56.7110856
Ellipsoid Height (M):	43.270
Geoid Height (M):	-25.810

Location Description
<p>TO REACH FROM THE POST OFFICE IN WARREN. GO SOUTH ON US HIGHWAY 63 FOR 5.09 KM (3.16 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO WEST AND SOUTHERLY ON THE AIRPORT ENTRANCE ROAD FOR 0.98 KM (0.61 MI) TO A LOCKED GATE ON THE RIGHT. TURN RIGHT AND PASS THROUGH THE GATE AND GO NORTHWEST ACROSS AN APRON AND ALONG A TAXIWAY FOR 0.12 KM (0.07 MI) TO THE RUNWAY AND THE STATION ON THE RIGHT. THE STATION IS A PINCH HOLE IN THE TOP OF A 5/8-INCH STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE WITH A LOGO CAP. IT IS 32.8 M (107.6 FT) SOUTHEAST OF THE CENTERLINE OF THE RUNWAY, 31.8 M (104.3 FT) SOUTH OF A RUNWAY LIGHT AND 6.9 M (22.6 FT) NORTHEAST OF THE CENTERLINE OF A TAXIWAY. THE AIRPORT IS UNATTENDED AND PERSONNEL ARE HARD TO CONTACT. LOCK COMBINATION IS 2239.</p>

AZ Mark Station	WARRPORT AZ
Geodetic Azimuth	214 45 27.2
Grid Azimuth	214 48 13.3

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
WARRPORT AZ	1/1/1990	NGS	BRADLEY	63	001873,020462

Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	498,690.3972	
Easting (M)	391,796.2990	
Elevation (M)*		
Northing (SFT)	1,636,120.0781	
Easting (SFT)	1,285,418.3576	
Elevation (SFT)*		

Convergence Angle	0	2	58.0089717
Scale Factor	0.999953040		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 33 23.1718824
Longitude	92 5 18.0488364
Ellipsoid Height (M):	33.490
Geoid Height (M):	-25.820

Location Description
<p>TO REACH FROM THE POST OFFICE IN WARREN. GO SOUTH ON STATE HIGHWAY 15 FOR 5.09 KM (3.16 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO WEST AND SOUTHERLY ON THE AIRPORT ENTRANCE ROAD FOR 0.98 KM (0.61 MI) TO A LOCKED GATE ON THE RIGHT. TURN RIGHT AND PASS THROUGH THE GATE AND GO NORTHWEST ACROSS AN APRON AND ALONG A TAXIWAY FOR 0.12 KM (0.07 MI) TO THE RUNWAY. TURN LEFT AND GO SOUTHWEST ON THE RUNWAY FOR 0.93 KM (0.58 MI) TO THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE IN THE TOP OF A 5/8-INCH STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE WITH LOGO CAP, SET 21.2 M (69.6 FT) SOUTHEAST OF THE CENTERLINE OF THE RUNWAY, 16.8 M (55.1 FT) SOUTH OF A RUNWAY LIGHT, 12.8 M (42.0 FT) NORTHEAST OF THE NORTHEAST EDGE OF A TURNAROUND.</p>

AZ Mark Station	WARRPORT
Geodetic Azimuth	34 45 15.4
Grid Azimuth	34 48 13.4

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Washington PN-2	7/18/2002	AHTD	WASHINGTON	71	4620_7

Zone	Zone Code	Vertical Determined By:
Arkansas North	301	NONE
Horizontal Datum	NAD 83 (1997)	
Northing (M)	180,585.4519	Elevation Datum:
Easting (M)	203,438.3910	NONE
Elevation (M)*		Geoid Datum:
Northing (SFT)	592,470.7701	Latitude
Easting (SFT)	667,447.4545	35 56 29.2670340
Elevation (SFT)*		Longitude
		94 10 43.3893180
		Ellipsoid Height (M):
		372.607
		Geoid Height (M):
		-27.967

Convergence Angle	-1	16	4.0614050
Scale Factor	0.999955316		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Guard rail post	355	8.10	26.6	AZ Mark Station
MK # 2	Pipe gate post	109	15.10	49.5	Geodetic Azimuth
MK # 3					Grid Azimuth
					Washington Co. PN-3
					011 35 56
					012 52 00

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	Gaylor
Ref Mon # 2	ENES
Ref Mon # 3	Sali1

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Washington PN-3	7/18/2002	AHTD	WASHINGTON	71	4620_7

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	181,058.0159	
Easting (M)	203,546.3330	
Elevation (M)*		
Northing (SFT)	594,021.1738	
Easting (SFT)	667,801.5942	
Elevation (SFT)*		

Convergence Angle	-1	16	1.7984994
Scale Factor	0.999955784		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone junction box	219	16.50	54.1
MK # 2	south front porch post at "Wisdom's clock shop"	302	12.80	42.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="Gaylor"/>	
Ref Mon # 2 <input type="text" value="ENES"/>	
Ref Mon # 3 <input type="text" value="Sali1"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Washington PN-4	7/18/2002	AHTD	WASHINGTON	71	4620_7

Zone	Zone Code	
Arkansas North	301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	181,222.6289	
Easting (M)	203,611.3430	
Elevation (M)*		
Northing (SFT)	594,561.2416	
Easting (SFT)	668,014.8812	
Elevation (SFT)*		

Convergence Angle	-1	16	0.3739077
Scale Factor	0.999955948		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fence corner	185	23.20	76.1
MK # 2	Gas meter	007	26.10	85.6
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 100%;" type="text" value="Gaylor"/> Ref Mon # 2 <input style="width: 100%;" type="text" value="ENES"/> Ref Mon # 3 <input style="width: 100%;" type="text" value="Sali1"/>	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	<input style="width: 10%; text-align: center;" type="text" value="35"/> <input style="width: 10%; text-align: center;" type="text" value="56"/> <input style="width: 80%; text-align: center;" type="text" value="50.0600328"/>
Longitude	<input style="width: 10%; text-align: center;" type="text" value="94"/> <input style="width: 10%; text-align: center;" type="text" value="10"/> <input style="width: 80%; text-align: center;" type="text" value="37.0523136"/>
Ellipsoid Height (M):	<input style="width: 40%; text-align: center;" type="text" value="386.469"/> <input style="width: 60%; text-align: center;" type="text"/>
Geoid Height (M):	<input style="width: 40%; text-align: center;" type="text" value="-27.964"/> <input style="width: 60%; text-align: center;" type="text"/>

Location Description
TO REACH THE STATION FROM THE JUNCTION OF HWY-71 AND HWY- IN WEST FORK, GO NORTH ON HWY-71 FOR 1.15 MILES TO THE STATION ON THE LEFT NEAR A PIPE RIGHT OF WAY FENCE. 15.8 METERS WEST OF THE CENTER OF HWY-71 AND 0.80 METERS EAST OF A METAL PIPE FENCE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
WHV 16 NO 1	1/1/1950	AHTD	LAFAYETTE	SR-160	030455

Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	446,971.6974	0.0020			
Easting (M)	251,674.5197	0.0020			
Elevation (M)*					

Northing (SFT)	1,466,439.6439				
Easting (SFT)	825,702.1534				
Elevation (SFT)*					

Convergence Angle	0	53	20.7858202
Scale Factor	1.000056119		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-29 AND SR-160, IN BRADLEY, GO EAST ON SR-160 3.9 MILES TO THE STATION ON THE RIGHT. 31.5' SOUTH OF THE C/L OF THE HIGHWAY AND 34' WEST OF C/L DRIVE. THE MARK IS A 3" BRASS CAP STAMPED "WHV 16 NO 1 1950" SET IN A CONCRETE POST 4" ABOVE THE GROUND.

Location Reference Marks

Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Power Pole	37	23.38	76.7	AZ Mark Station 370019
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center; margin: 0;">Comments</p> <p style="margin: 5px 0;">GPS DERIVED ELEVATION BASED ON ORTHOMETRIC HT. CONSTRAINTS ON AHTD CORS SITES ARCM & ARHP AND ON 2ND ORDER USC & GS BM C 63 IN THE STATIC NETWORK ADJUSTMENT.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
KINS W BASE RE	1/1/1970	CGS	TX / UPSHUR	N/A	NA

Zone	Zone Code	Vertical Determined By:
Arkansas South		GPS - Unknown Quality
Horizontal Datum		Elevation Datum:
		NAVD 88
Northing (M)	#Error	Geoid Datum:
Easting (M)	#Error	Latitude
Elevation (M)*	104.510	Longitude
Northing (SFT)	#Type!	Ellipsoid Height (M):
Easting (SFT)	#Type!	Geoid Height (M):
Elevation (SFT)*	342.880	

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			0.9999835992
Combined Adjust. Factor			#Type!

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

RECOVERED IN DISTURBED CONDITION. THE STATION IS FOUND LEANING FIVE DEGREES TO THE SOUTH. THE METAL SIGN POST OF RECORD WAS FOUND BEARING ON THE NORTH EDGE OF THE CONCRETE POST AND WAS REMOVED. NOTE THAT THE SOIL IS ALL WASHED SAND OF SEDIMENTARY ORIGIN. THE 1993 TO REACH IS VALID. RM 1 AND RM 2 NOT FOUND AND PRESUMED DESTROYED AS PER 1970 DESCRIPTION. RM 3 AND RM 4 RECOVERED IN GOOD CONDITION. THE AZIMUTH MARK IS RECOVERED IN DESTROYED CONDITION WITH THE CONCRETE POST BROKEN, IN BIG SANDY NORTHEAST FROM THE JUNCTION OF SOUTH PEARL AND EAST COTTON, AT THE BASE OF A TOWER. NOTE THAT THE 1970 POST OFFICE IS NOW THE CITY HALL ON GILMER STREET. THE STATION IS LOCATED ABOUT 21 KM (13.05 MI) WEST OF LONGVIEW, 14 KM (8.70 MI) NORTH OF INTERSTATE HIGHWAY 20, 3 KM (1.85 MI) EAST OF BIG SANDY IN A GRASSY AREA EAST OF A GROUP OF PINE TREES, ON THE SOUTH SIDE OF THE AMBASSADOR COLLEGE CAMPUS AND IN THE RIGHT OF WAY OF US HIGHWAY 80. OWNERSHIP--TEXAS DEPARTMENT OF TRANSPORTATION, 11TH AND BRAZOS, AUSTIN TX 78701, PHONE 512-465-7337. TO REACH THE STATION FROM THE EASTERLY JUNCTION OF US HIGHWAY 80 (BROADWAY) AND STATE HIGHWAY 155 (TYLER) IN BIG

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station WINN RM A	Date Monumented 1/1/1965	Monumented By CGS	County S / WASHINGTON	Route N/A	Job Number: NA
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	490,669.2887 0.0024
Easting (M)	482,859.9312 0.0027
Elevation (M)*	42.600
Northing (SFT)	1,609,804.1580
Easting (SFT)	1,584,182.9576
Elevation (SFT)*	139.764

Convergence Angle	0 29 56.3851516
Scale Factor	0.999964818
Elevation Adjust. Factor	0.9999933147
Combined Adjust. Factor	0.9999581330

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 12B
Latitude	33 28 51.2177520
Longitude	91 6 30.3965640
Ellipsoid Height (M):	16.041 0.0040
Geoid Height (M):	-27.307

Location Description
<p>THE STATION IS LOCATED ABOUT 5.8 MI (9.3 KM) NORTHWEST OF GREENVILLE, 3.2 MI (5.1 KM) SOUTHWEST OF WINTERVILLE, IN SECTION 6, T 19 N, R 9 W, ON THE EAST BANK OF THE MISSISSIPPI RIVER AND ON STATE PROPERTY. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND STATE HIGHWAY 1 IN GREENVILLE, GO NORTH FOR 6.95 MI (11.18 KM) ON STATE HIGHWAY 1 TO A CROSSROAD. TURN LEFT AND GO WEST FOR 2.4 MI (3.9 KM) ON WINN ROAD TO A GRAVELED FORK. TURN LEFT AND GO SOUTHWEST FOR 0.05 MI (0.08 KM) TO THE TOP OF LEVEE. CONTINUE SOUTH FOR 0.48 MI (0.77 KM) ON THE LEVEE ROAD TO A DIM ROAD LEFT AND THE STATION ON LEFT, JUST BEFORE REACHING THE JUNCTION OF A LEVEE ROAD WEST. THE STATION IS FLUSH WITH GROUND. LOCATED 118 FT (36.0 M) EAST FROM THE CENTER OF THE LEVEE ROAD, 113 FT (34.4 M) SOUTH FROM AN OLD FENCE LINE, 12.7 FT (3.9 M) NORTHEAST FROM WINN RM 5 AND 2.0 FT (0.6 M) SOUTHEAST FROM A WITNESS POST.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Position and elevation from NGS datasheet.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station WINSTON	Date Monumented 1/1/1957	Monumented By CGS	County MS / BOLIVAR	Route N/A	Job Number: NA
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	539,075.7034 0.0017
Easting (M)	515,173.8635 0.0014
Elevation (M)*	44.692

Northing (SFT)	1,768,617.5369	
Easting (SFT)	1,690,199.5838	
Elevation (SFT)*	146.627	

Convergence Angle	0 41	49.6530487
Scale Factor	0.999920656	
Elevation Adjust. Factor	0.9999929864	
Combined Adjust. Factor	0.9999136430	

SUPERCEDDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Description
<p>THE STATION IS LOCATED IN WINSTONVILLE, NEAR THE NORTHWEST CORNER OF A TRIANGULAR SHAPED GRASS AREA SOUTHEAST OF THE JUNCTION OF MACK WILLIAMS ST AND BLAKE AV. OWNERSHIP--UNKNOWN. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 61 AND WINSTON ST NEAR THE CENTER OF WINSTONVILLE AND IN FRONT OF THE POST OFFICE, GO NORTHWEST FOR 0.5 KM (0.30 MI) ON HIGHWAY 61 TO THE JUNCTION OF MACK WILLIAMS ST. TURN LEFT, WEST FOR 0.2 KM (0.10 MI) ALONG MACK WILLIAMS STREET TO THE STATION ON THE LEFT, JUST BEFORE A T-JUNCTION WITH BLAKE AV. STATION IS 36.8 M (120.7 FT) WEST-NORTHWEST OF THE NORTHWEST CORNER OF THE PERSONAL CARE HOME, 30.5 M (100.1 FT) WEST OF THE CENTER OF GRAVEL ENTRANCE TO COVERSTONE PERSONAL CARE HOME AT 102 MACK WILLIAMS ST, 24.05 M (78.90 FT) NORTH-NORTHWEST OF WINSTON RM 2 AND WITNESS POST, 22.3 M (73.2 FT) EAST-NORTHEAST OF THE CENTER OF BLAKE AV, 10.7 M (35.1 FT) SOUTH OF THE CENTER OF MACK WILLIAMS STREET, 4.5 M (14.8 FT) SOUTH OF A WITNESS POST, ABOUT LEVEL WITH THE STREET AND FLUSH WITH GROUND.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">AZ Mark Station</th> <th style="text-align: center;">Wooten (DK1930)</th> </tr> <tr> <td>Geodetic Azimuth</td> <td style="text-align: center;">045 04 16.7</td> </tr> <tr> <td>Grid Azimuth</td> <td style="text-align: center;">045 18 22.6</td> </tr> </table>	AZ Mark Station	Wooten (DK1930)	Geodetic Azimuth	045 04 16.7	Grid Azimuth	045 18 22.6
AZ Mark Station	Wooten (DK1930)						
Geodetic Azimuth	045 04 16.7						
Grid Azimuth	045 18 22.6						

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station WRB	Date Monumented 1/1/1936	Monumented By NGS	County FAULKNER	Route 36	Job Number: 080384
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	87,909.5701	
Easting (M)	374,119.9770	
Elevation (M)*	125.555	
Northing (SFT)	288,416.6479	
Easting (SFT)	1,227,425.2912	
Elevation (SFT)*	411.925	

Convergence Angle	0	9	54.8110409
Scale Factor	0.999967798		
Elevation Adjust. Factor	0.9999802967		
Combined Adjust. Factor	0.9999480953		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARHR Ref Mon # 3 ARBT	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	7	31.4099688
Longitude	92	17	2.1892632
Ellipsoid Height (M):	97.921		
Geoid Height (M):	-27.629		

Location Description
DESCRIBED BY NATIONAL GEODETIC SURVEY 19629.8 MI NW FROM VILONIA.5.7 MILES WEST ALONG U.S. HIGHWAY 64 FROM THE POST OFFICE AT VILONIA,THENCE 4.1 MILES NORTH ALONG STATE HIGHWAY 36, 48 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, 45 FEET SOUTHWEST OF A POWER POLE, 13 FEETWEST OF A METAL WITNESS POST, 4.4 FEET NORTH OF A FENCE, ABOUT 4 FEETABOVE THE LEVEL OF THE HIGHWAY, SET IN TOP OF A SQUARE CONCRETE POSTPROJECTING 4 INCHES ABOVE GROUND SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
WYATT 1941	7/24/1995	USC&GS	UNION	82	070104, 070367, 070368

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	460,294.2147
Easting (M)	331,510.2092
Elevation (M)*	78.502
Northing (SFT)	1,510,148.6027
Easting (SFT)	1,087,629.7447
Elevation (SFT)*	257.553

Convergence Angle	0	24	40.1301021
Scale Factor	1.000021662		
Elevation Adjust. Factor	0.9999876806		
Combined Adjust. Factor	1.0000093423		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	33	12	29.0237688
Longitude	92	44	4.5408480
Ellipsoid Height:	51.745		
Grid Northing (Meters)	460,294.5410		
Grid Easting (Meters)	331,510.4530		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	STEEL LIGHT POLE	260	2.65	8.7
MK # 2	20" METAL CULVERT	315	10.00	32.8
MK # 3	COMBINATION POLE	88	22.80	74.8

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>NORPHLET 1952</td> </tr> <tr> <td>Ref Mon # 2</td> <td>700001</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	NORPHLET 1952	Ref Mon # 2	700001	Ref Mon # 3	NONE	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	NORPHLET 1952							
Ref Mon # 2	700001							
Ref Mon # 3	NONE							
Comments								

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid09
Latitude	33 12 29.0131200
Longitude	92 44 4.5501720
Ellipsoid Height (M):	52.235
Geoid Height (M):	-26.275

Location Description

FROM THE JCT. OF HWY. 167 AND HWY. 82 IN SOUTH EL DORADO, GO WEST ON HWY. 82 FOR 7.403 KM (4.6 MILES) TO THE "Y" JCT. OF HWY. 82 AND HWY. 82B, TAKE THE LEFT FORK (HWY. 82) AND GO WEST FOR 3.54 KM (2.20 MILES) TO THE JCT. OF HWY. 82 AND HWY. 335 NORTH AND THE STATION ON THE LEFT IN FRONT OF THE WYATT BAPTIST CHURCH. THE STATION IS 17.0 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 12.4 METERS EAST OF CENTERLINE OF PAVED COUNTY ROAD LEADING SOUTH, 1.30 METERS EAST OF A WATER VALVE, 0.40 METERS SOUTH OF A WITNESS POST AND 0.20 METERS NORTH OF A CONCRETE PARKING LOT. THE STATION MARK IS A STANDARD BRASS CAP STAMPED "WYATT 1941" SET IN A CONCRETE POST 0.20 METERS BELOW THE GROUND SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
WYATT AZ 1995	7/24/1995	AHTD	UNION	82	070104,070367,070368

Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	460,337.2901	
Easting (M)	331,031.2059	
Elevation (M)*	70.015	
Northing (SFT)	1,510,289.9259	
Easting (SFT)	1,086,058.2147	
Elevation (SFT)*	229.709	

Convergence Angle	0	24	50.4881902
Scale Factor	1.000021572		
Elevation Adjust. Factor	0.9999890124		
Combined Adjust. Factor	1.0000105842		

SUPERCEDED CONTROL			
Horizontal Datum	NAD 83 (1986)		
Latitude	33	12	30.3102828
Longitude	92	44	23.0482284
Ellipsoid Height:	43.272		
Grid Northing (Meters)	460,337.6270		
Grid Easting (Meters)	331,031.4350		

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	GAS METER	270		5.90	19.4
MK # 2	WATER METER	100		6.40	21.0
MK # 3	3" STEEL GATE POST	77		8.00	26.2

Area Reference Monuments (used for Processing) Ref Mon # 1 NORPHLET 1952 Ref Mon # 2 WYATT 1941 Ref Mon # 3 700001	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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Location Description
FROM THE JCT. OF HWY. 167 AND HWY. 82 IN SOUTH EL DORADO, GO WEST ON HWY. 82 FOR 7.403 KM (4.60 MILES) TO THE "Y" JCT. OF HWY. 82 AND HWY. 82B, TAKE THE LEFT FORK (HWY. 82) AND GO WEST ON HWY. 82 FOR 3.540 KM (2.20 MILES) TO THE JCT. OF HWY. 82 AND HWY. 335 NORTH, CONTINUE WEST ON HWY. 82 FOR 0.483 KM (0.30 MILES) TO THE STATION ON THE RIGHT IN FRONT OF TRI-STATE VALVE AND INSTRUMENT COMPANY. THE STATION IS 17.60 METERS NORTH OF THE CENTERLINE OF HWY. 82, 12.50 METERS WEST OF THE CENTERLINE OF A GRAVEL DRIVE AND 1.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "WYATT AZ 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

AZ Mark Station	WYATT 1941
Geodetic Azimuth	94 43 32.635771
Grid Azimuth	95 08 23.007965

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station X 166	Date Monumented 1/1/1944	Monumented By CGS	County MS / CARROLL	Route N/A	Job Number: NA
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Zone Arkansas South	Zone Code	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum		Elevation Datum: NAVD 88
Northing (M)	#Error	Geoid Datum:
Easting (M)	#Error	Latitude
Elevation (M)*	45.339	Longitude
Northing (SFT)	#Type!	Ellipsoid Height (M):
Easting (SFT)	#Type!	Geoid Height (M):
Elevation (SFT)*	148.750	

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			0.9999928849
Combined Adjust. Factor			#Type!

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station X 189	Date Monumented 1/1/1956	Monumented By USC&GS	County CLAY	Route 62	Job Number: R00084
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1986)	
Northing (M)	234,295.2481	
Easting (M)	548,636.7610	
Elevation (M)*	93.187	
Northing (SFT)	768,683.6598	
Easting (SFT)	1,799,985.7734	
Elevation (SFT)*	305.731	

Convergence Angle	0	57	52.5066975
Scale Factor	1.000045791		
Elevation Adjust. Factor	0.9999853761		
Combined Adjust. Factor	1.0000311665		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	18" PINE TREE	302	17.50	57.4		110002
MK # 2	48" OAK TREE	348	20.30	66.6		89 57 34.821296
MK # 3	48" PIPE CULVERT	135	6.20	20.3		88 59 42.427812

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="CORNPOR"/>	Cross Reference Job: R00119 and R00125
Ref Mon # 2 <input type="text" value="HOPEWELL"/>	
Ref Mon # 3 <input type="text" value="NONE"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station X 303	Date Monumented 1/1/1985	Monumented By NGS	County LITTLE RIVER	Route 71	Job Number: 30108
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	513,807.2962				
Easting (M)	202,544.7270				
Elevation (M)*	100.357				
Northing (SFT)	1,685,716.1043				
Easting (SFT)	664,515.4918				
Elevation (SFT)*	329.255				

Convergence Angle	-1	11	30.7128791
Scale Factor	0.999938107		
Elevation Adjust. Factor	0.9999842510		
Combined Adjust. Factor	0.9999223589		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1			0.00	0.0	
MK # 2			0.00	0.0	
MK # 3			0.00	0.0	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 40 27.3009288
Longitude	94 7 46.2216828
Ellipsoid Height (M):	73.320
Geoid Height (M):	-27.040

Location Description
<p>THE STATION IS LOCATED IN ASHDOWN, AT THE FIRST METHODIST CHURCH ON COMMERCE STREET, AND IN THE FRONT LAWN OF THE EDUCATIONAL BUILDING LOCATED ON THE WEST SIDE OF THE CHURCH. OWNERSHIP--FIRST METHODIST CHURCH, ASHDOWN AR, PHONE 501-893-5738 OR 501-893-3525. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 32 WEST, ABOUT 0.4 KM (0.25 MI) NORTH OF THE JUNCTION OF HIGHWAYS 71 AND 32 EAST, GO SOUTH ON HIGHWAY 71 FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF COMMERCE STREET ON THE LEFT. TURN LEFT, EAST ON COMMERCE STREET FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF KELLER STREET. CONTINUE AHEAD, EAST ON COMMERCE STREET FOR ABOUT 30 M (98.4 FT) TO THE EDUCATIONAL BUILDING AND CHURCH AND THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD IN A GREASE FILLED SLEEVE ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE RECESSED 3 CM BELOW THE GROUND SURFACE. IT IS 12.4 M (40.7 FT) SOUTH OF THE CENTER OF COMMERCE STREET, 5.45 M (17.88 FT) WEST OF THE WEST EDGE OF THE ENTRANCE SIDEWALK TO THE EDUCATIONAL BUILDING, 3.15 M (10.33 FT) SOUTH OF THE SOUTH EDGE OF THE SIDEWALK PARALLEL TO COMMERCE</p>

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station X 310	Date Monumented 1/1/1989	Monumented By NOAA	County WASHINGTON	Route 71	Job Number: NA
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (1986)		
Northing (M)	175,657.3519		
Easting (M)	203,524.6280		
Elevation (M)*	428.420		
Northing (SFT)	576,302.4954		
Easting (SFT)	667,730.3837		
Elevation (SFT)*	1,405.575		

Convergence Angle	-1	15	59.5306332
Scale Factor	0.999950796		
Elevation Adjust. Factor	0.9999327715		
Combined Adjust. Factor	0.9998835708		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks											
Description		Azimuth	Distance								
			Meters	Feet							
MK # 1	NONE				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">AZ Mark Station</td> <td>NONE</td> </tr> <tr> <td>Geodetic Azimuth</td> <td></td> </tr> <tr> <td>Grid Azimuth</td> <td></td> </tr> </table>	AZ Mark Station	NONE	Geodetic Azimuth		Grid Azimuth	
AZ Mark Station	NONE										
Geodetic Azimuth											
Grid Azimuth											
MK # 2	NONE										
MK # 3	NONE										

Area Reference Monuments (used for Processing)	Comments						
<table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>SPRINGDALE</td> </tr> <tr> <td>Ref Mon # 2</td> <td>DENNIS</td> </tr> <tr> <td>Ref Mon # 3</td> <td>NONE</td> </tr> </table>	Ref Mon # 1	SPRINGDALE	Ref Mon # 2	DENNIS	Ref Mon # 3	NONE	
Ref Mon # 1	SPRINGDALE						
Ref Mon # 2	DENNIS						
Ref Mon # 3	NONE						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station Y 209	Date Monumented 1/1/1962	Monumented By NGS	County FAULKNER	Route 36	Job Number: 080339
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 2nd Order by NGS
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Northing (M) 91,704.9051		Geoid Datum:
Easting (M) 379,674.7890		Latitude 35 9 35.0329032
Elevation (M)* 94.427		Longitude 92 13 23.1300624
Northing (SFT) 300,868.5095		Ellipsoid Height (M): 66.824
Easting (SFT) 1,245,649.7036		Geoid Height (M): -27.602
Elevation (SFT)* 309.800		

Convergence Angle 0 7 47.3406830	Location Description LOCATED AT THE JUNCTION OF STATE HIGHWAY 36 EAST AND STATE HIGHWAY 107 NORTH, IN THE COMMUNITY OF SHARON, 53.6 FEET EAST OF THE EAST CORNER OF SANSON STORE AND STATION, 49.0 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY, 7.5 FEET NORTH OF A GUY POLE, 2.0 FEET WEST OF A METAL WITNESS POST AND SET IN THE TOP OF CONCRETE POST WHICH PROJECTS 0.3 FEET. THE STATION MARK IS A STANDARD 2 BRASS CAP STAMPED "Y 209 1962" .
Scale Factor 0.999963211	
Elevation Adjust. Factor 0.9999851815	
Combined Adjust. Factor 0.9999483931	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description	Azimuth	Distance		AZ Mark Station
		Meters	Feet	
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARBT Ref Mon # 3 ARHR	Comments 2nd Order NGS Mark
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station Y 27	Date Monumented	Monumented By NGS	County Crawford	Route NA	Job Number: R40013
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	156,698.3130	
Easting (M)	203,543.1450	
Elevation (M)*	331.351	
Northing (SFT)	514,101.0486	
Easting (SFT)	667,791.1349	
Elevation (SFT)*	1,087.107	

Convergence Angle	-1	15	49.3984897
Scale Factor	0.999938995		
Elevation Adjust. Factor	0.9999480029		
Combined Adjust. Factor	0.9998870011		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 Sal1 Ref Mon # 2 ARFY Ref Mon # 3 170015	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px; vertical-align: top;"> The station mark is a first order benchmark. Elevation is 1087.11 feet. </td> </tr> </table>	Comments	The station mark is a first order benchmark. Elevation is 1087.11 feet.
Comments			
The station mark is a first order benchmark. Elevation is 1087.11 feet.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station Y 298	Date Monumented 1/1/1985	Monumented By NGS	County SEBASTIAN	Route 71	Job Number: 040792
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	93,202.9063 0.0010
Easting (M)	193,155.7324 0.0010
Elevation (M)*	224.490

Northing (SFT)	305,783.2018
Easting (SFT)	633,711.7654
Elevation (SFT)*	736.514

Convergence Angle	-1 19 15.9613196
Scale Factor	0.999964220
Elevation Adjust. Factor	0.9999647714
Combined Adjust. Factor	0.9999289927

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFS Ref Mon # 2 ARFY Ref Mon # 3 ARRV, OKHV	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> USED NGS PUBLISHED ELEV. IN FINAL STATIC NETWORK ADJUSTMENT. </td> </tr> </table>	Comments	USED NGS PUBLISHED ELEV. IN FINAL STATIC NETWORK ADJUSTMENT.
Comments			
USED NGS PUBLISHED ELEV. IN FINAL STATIC NETWORK ADJUSTMENT.			

Location Description

DESCRIBED BY NATIONAL GEODETIC SURVEY 1985
 14.3 KM (8.8 MI) SOUTH FROM GREENWOOD.
 5.1 KM (3.15 MI) WEST ALONG STATE ROUTE 10S SPUR FROM THE SEBASTIAN COUNTY COURTHOUSE IN GREENWOOD, THENCE 1.6 KM (5.7 MI) SOUTH ALONG U.S. HIGHWAY 71, AT THE CREST OF A HILL AND NEAR THE NORTHWEST CORNER OF THE PROPERTY OF MR. HARLAN CROSS (STONE HOUSE), 12.5 METERS (41.0 FT) EAST OF THE CENTERLINE OF HIGHWAY 71, 0.52 METERS (1.7 FT) NORTHWEST OF A CORNER FENCE POST, 0.31 METERS (1.0 FT) WEST OF A FENCE LINE, 17.4 METERS (57.0 FT) NORTH-NORTHWEST OF THE APPROXIMATE CENTER OF THE PRIVATE ENTRANCE DRIVE, 36.3 METERS (119.0 FT) NORTH-NORTHWEST OF A POWERLINE POLE, AND 30.5 METERS (100.0 FT) NORTH-NORTHWEST OF THE APPROXIMATE CENTER OF A DIRT ROAD (EXTENDED) AND LEADING OVER A CATTLE GUARD. NOTE, DRIVEN TO GRADUAL REFUSAL AND ANCHORED IN ROCK. THE MARK IS 0.31 METERS NW FROM A WITNESS POST. THE MARK IS 0.31 M BELOW HIGHWAY 71.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station Y 68	Date Monumented 1/1/1934	Monumented By USC&GS	County CLEBURNE	Route 25	Job Number: 012227
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	124,972.5233	0.0020			
Easting (M)	395,411.0434	0.0020			
Elevation (M)*	276.901				
Northing (SFT)	410,014.0202				
Easting (SFT)	1,297,277.7316				
Elevation (SFT)*	908.466				

Convergence Angle	0	1	45.9075066
Scale Factor	0.999938282		
Elevation Adjust. Factor	0.9999565471		
Combined Adjust. Factor	0.9998948318		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>DESCRIBED BY COAST AND GEODETIC SURVEY 1962 3.1 MI S FROM HEBER SPRINGS. 3.1 MILES SOUTH ALONG STATE HIGHWAY 25 FROM THE MISSOURI AND NORTH ARKANSAS RAILWAY STATION AT HEBER SPRINGS, 225 FEET NORTHEAST OF THE CENTER OF THE WEST END OF THE JUNCTION WITH STATE HIGHWAY 5, 150 FEET NORTHWEST OF THE CENTER OF THE EAST END OF THE JUNCTION, 52.5 FEET WEST OF THE WEST SIDE OF THE M. DONALDSON SERVICE STATION, 52.3 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY, 19.9 FEET NORTH OF THE SOUTHEAST FENCE CORNER, AND 1.2 FEET EAST OF THE NORTH-AND-SOUTH FENCE. A STANDARD DISK, STAMPED Y 68 1934 AND SET IN THE TOP OF A CONCRETE POST.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <p>S5112 PERFORMED SIMULTANEOUS STATIC GPS BETWEEN Y 68 & Q 68 IN SEPT. 2015 AND MISSED Y 68 BY +0.0185' WHEN CONSTRAINING Q 68, ARBT & ARLR. DISTANCE BETWEEN MARKS ALONG HWY. 25 IS APPROXIMATELY 17.2 MILES.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station Y22	Date Monumented 1/1/1932	Monumented By USC&GS	County MILLER	Route 196	Job Number: XA0302
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	481,154.7821	
Easting (M)	221,778.5120	
Elevation (M)*	111.800	
Northing (SFT)	1,578,588.6476	
Easting (SFT)	727,618.3348	
Elevation (SFT)*	366.797	

Convergence Angle	-1	4	19.5896999
Scale Factor	0.999982573		
Elevation Adjust. Factor	0.9999824552		
Combined Adjust. Factor	0.9999650285		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	RAIL ROAD STOP SIGN	97	10.80	35.4	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 IULM, DQUA Ref Mon # 2 AHTD HOPE Ref Mon # 3 AHTD TEXARKANA	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>NGS Monument established in 1932 by CGS. HZ position established in 2004 by AHTD.</td> </tr> </table>	Comments	NGS Monument established in 1932 by CGS. HZ position established in 2004 by AHTD.
Comments			
NGS Monument established in 1932 by CGS. HZ position established in 2004 by AHTD.			

Location Description	
TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 AND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY 196 4.35 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST ACROSS THE ROAD FROM THE US POST OFFICE IN GENOA, WEST 14.9 METERS OF A PRIVATE ASPH. DRIVE, NORTH 8.9 METERS OF THE CENTERLINE OF A RAILROAD, SOUTH 10.1 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD DISK, STAMPED "366.899 Y 22 1932 " AND SET IN THE TOP OF A CONCRETE POST FLUSH WITH THE GROUND.	

AZ Mark Station	460033
Geodetic Azimuth	84 27 49
Grid Azimuth	85 32 09

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station Z 149 offset	Date Monumented 3/8/2011	Monumented By AHTD	County Searcy	Route 27	Job Number: 090304
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	162,072.4459	
Easting (M)	331,570.5690	
Elevation (M)*	488.668	
Northing (SFT)	531,732.6829	
Easting (SFT)	1,087,827.7751	
Elevation (SFT)*	1,603.238	

Convergence Angle	0	26	25.8194824
Scale Factor	0.999942477		
Elevation Adjust. Factor	0.9999233179		
Combined Adjust. Factor	0.9998657993		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach from the intersection of Highway 333 South and Highway 27 southwest of Marshall, go south on Highway 27 for 9.6 miles to the station on the left, 33.5 feet north of the centerline of Highway 27, 8.5 feet south of a witness post, and 250 feet east of the center of a gravel driveway. The station mark is a standard 2" cap stamped "Z 149 OFFSET" and set on top of a 2 foot long rebar driven 0.2 feet below ground level.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 W H Phillips, P 277 Ref Mon # 2 ARFY, ARBT Ref Mon # 3 ARHR	3-wire levels run from Z 149

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station Z 290	Date Monumented 1/1/1984	Monumented By NGS	County Faulkner	Route 365	Job Number: 012119
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	78,343.3441	
Easting (M)	362,050.9740	
Elevation (M)*	89.553	
Northing (SFT)	257,031.4548	
Easting (SFT)	1,187,828.9039	
Elevation (SFT)*	293.808	

Convergence Angle	0	14	31.2663368
Scale Factor	0.999980947		
Elevation Adjust. Factor	0.9999859464		
Combined Adjust. Factor	0.9999668937		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NW end of a brick house	62	20.40	66.9
MK # 2	Corner of a chain link fence	345	11.90	39.0
MK # 3	Power Pole	335	26.80	87.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	This station is a first order NGS bench mark NAVD 88 elevation: 89.553 meters, 293.81 feet.
Ref Mon # 2 ARHR	
Ref Mon # 3 ARLR	

Vertical Determined By: LEVEL - Unkown Quality

Elevation Datum: NAVD 88

Geoid Datum:

Latitude 35 2 19.5940428

Longitude 92 24 57.2807052

Ellipsoid Height (M): 61.893

Geoid Height (M): -27.660

Location Description

To reach the station from jct. SR-365 & SR-89 (Near exit 135 on I-40) in Mayflower, go North on SR-365 4.9 miles to the station on the Right. 46 feet East of the centerline of SR-365, 4 feet West of a chain link fence, 19 feet South of a gas meter and 4 feet West of a witness post. The station is a stainless steel rod w/o sleeve (10 FT.+) stamped "Z 290 1984"

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station Z 309	Date Monumented 1/2/1989	Monumented By NOAA	County BENTON	Route 62	Job Number: 090065,090096
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	238,321.0931	
Easting (M)	224,890.2990	
Elevation (M)*	475.120	
Northing (SFT)	781,891.7863	
Easting (SFT)	737,827.5893	
Elevation (SFT)*	1,558.790	

Convergence Angle	-1	8	12.6932326
Scale Factor	1.000054211		
Elevation Adjust. Factor	0.9999254437		
Combined Adjust. Factor	0.9999796507		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	FIRE HYDRANT	10	16.90	55.4		Z 309A
MK # 2	GUY POLE	103	7.55	24.8		14 31 05.213894
MK # 3	NONE					15 39 17.944193

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CONWAY CORS ARP	NGS 1st Order Mark
Ref Mon # 2 SALLISAW 1 CORS ARP	
Ref Mon # 3 NEODESHA CORS ARP	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station Z 309A	Date Monumented 9/28/1999	Monumented By AHTD	County BENTON	Route 62	Job Number: 090065,090096
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 238,889.8972		Latitude 36 28 15.1499856
Easting (M) 225,049.7010		Longitude 93 57 7.3900872
Elevation (M)* 498.860		Ellipsoid Height (M):
Northing (SFT) 783,757.9377		Geoid Height (M): -28.166
Easting (SFT) 738,350.5607		
Elevation (SFT)* 1,636.677		

Convergence Angle -1 8 9.2321641	Location Description
Scale Factor 1.000055600	<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 127 LOCATED IN GARFIELD, GO NORTHEAST ON U.S. HIGHWAY 62 FOR 3.30 KM (2.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.77 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 62, 14.00 METERS SOUTH-SOUTHWEST OF THE CENTER OF A PASTURE ENTRANCE AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "Z 309A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.</p>
Elevation Adjust. Factor 0.9999217187	
Combined Adjust. Factor 0.9999773144	

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	BRACE POST	9	8.23	27.0	Z 309
MK # 2	TELEPHONE JUNCTION BOX	23	22.65	74.3	194 31 08.74917
MK # 3	NONE				195 39 17.94419

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 CONWAY CORS ARP	Elevation by 3 Wire from NGS point Z 309
Ref Mon # 2 SALLISAW 1 CORS ARP	
Ref Mon # 3 NEODESHA CORS ARP	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station Z 31	Date Monumented 1/2/1934	Monumented By USC&GS	County BENTON	Route 59	Job Number: 090082
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (1997)	
Northing (M)	234,113.9901	
Easting (M)	179,757.3710	
Elevation (M)*	365.980	
Northing (SFT)	768,088.9825	
Easting (SFT)	589,753.9747	
Elevation (SFT)*	1,200.719	

Convergence Angle	-1	25	44.7027118
Scale Factor	1.000041910		
Elevation Adjust. Factor	0.9999425691		
Combined Adjust. Factor	0.9999844767		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAN HOLE COVER TO A WATER METERS	14	2.35	7.7
MK # 2	MANHOLE COVER	140	7.95	26.1
MK # 3	NORTHWEST END OF A CMP	195	2.90	9.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HAR 1 Ref Mon # 2 SALLISAW 1 Ref Mon # 3 CONWAY CORS ARP	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 25 7.3700940
Longitude	94 27 21.2277384
Ellipsoid Height (M):	337.859
Geoid Height (M):	-28.121

Location Description
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 EAST, STATE HIGHWAY 59 AND SECOND AVENUE SOUTHWEST, LOCATED IN GRAVETTE, GO SOUTHWEST ON SECOND AVENUE SOUTHWEST FOR 0.32 KM (0.20 MI) TO THE JUNCTION OF DALLAS STREET SOUTHWEST, GO RIGHT, WEST ON DALLAS STREET SOUTHWEST FOR 0.13 KM (0.08 MI) TO THE JUNCTION OF THIRD AVENUE SOUTHWEST AND THE STATION ON THE RIGHT. THE STATION IS 22.50 METERS WEST OF THE WEST RAIL, 6.40 METERS NORTH OF THE CENTER OF DALLAS STREET SOUTHWEST, 6.30 METERS WEST OF THE CENTER OF THIRD AVENUE SOUTHWEST AND 1.33 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A USC&GS BENCH MARK DISK STAMPED "Z 31 1934" SET IN THE TOP OF A SQUARE CONCRETE MONUMENT.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station Z 31A	Date Monumented 1/10/2000	Monumented By AHTD	County BENTON	Route 59	Job Number: 090082
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Zone Arkansas North	Zone Code 301	Vertical Determined By: LEVEL - Unkown Quality
Horizontal Datum NAD 83 (1997)		Elevation Datum: NAVD 88
Geoid Datum:		
Northing (M) 234,433.7641		Latitude 36 25 17.9018076
Easting (M) 179,956.7350		Longitude 94 27 13.5477900
Elevation (M)* 370.806		Ellipsoid Height (M): 342.683
		Geoid Height (M): -28.123

Northing (SFT) 769,138.1077		
Easting (SFT) 590,408.0547		
Elevation (SFT)* 1,216.553		

Convergence Angle -1 25 40.2337565		
Scale Factor 1.000042656		
Elevation Adjust. Factor 0.9999418118		
Combined Adjust. Factor 0.9999844654		

SUPERCEDED CONTROL		
Horizontal Datum		
Latitude		
Longitude		
Ellipsoid Height:		
Grid Northing (Meters)		
Grid Easting (Meters)		

Location Description

THE STATION IS LOCATED IN GRAVETTE , AT THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 72 WEST. THE STATION IS 74.35 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 72, 43.34 METERS WEST OF THE CENTER OF STATE HIGHWAYS 59 AND 72, 12.123 METERS EAST OF THE EAST RAIL AND 2.13 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "Z 31A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 376.831 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USC&GS BENCH MARK R 34.

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	FLAG POLE	110	5.81	19.1	Z 32
MK # 2	CORNER POST OF A CHAIN LINK FENCE	169	12.31	40.4	210 30 49.36058
MK # 3	NONE				211 56 29.54898

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AHTD HAR 1	
Ref Mon # 2 SALLISAW 1	
Ref Mon # 3 CONWAY CORS ARP	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station Z 5	Date Monumented 1/1/1930	Monumented By NGS	County CARROLL	Route NA	Job Number: 090219
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (1997)				
Northing (M)	222,259.3331	0.0010			
Easting (M)	278,745.3420	0.0010			
Elevation (M)*	337.981				
Northing (SFT)	729,195.8287				
Easting (SFT)	914,517.0095				
Elevation (SFT)*	1,108.859				

Convergence Angle	0	47	9.0289429
Scale Factor	1.000020349		
Elevation Adjust. Factor	0.9999469626		
Combined Adjust. Factor	0.9999673105		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHR Ref Mon # 2 CNWM Ref Mon # 3 080031, 080031A	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 100px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station ZME B	Date Monumented 1/1/1995	Monumented By NGS	County TN / SHELBY	Route N/A	Job Number: N/A
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Zone Arkansas South	Zone Code
Horizontal Datum	
Northing (M)	#Error
Easting (M)	#Error
Elevation (M)*	76.736
Northing (SFT)	#Type!
Easting (SFT)	#Type!
Elevation (SFT)*	251.758

Convergence Angle	###	###	#Error
Scale Factor	#Error		
Elevation Adjust. Factor	0.9999879578		
Combined Adjust. Factor	#Type!		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>THE STATION IS LOCATED ON THE SOUTH SIDE OF MEMPHIS, TN ALONG THE NORTH SIDE OF THE MEMPHIS INTERNATIONAL AIRPORT, ON THE SOUTHERN RIGHT-OF-WAY OF DEMOCRAT ROAD JUST OUTSIDE THE PERIMETER FENCE OF THE FEDERAL AVIATION ADMINISTRATION (FAA) AIR ROUTE TRAFFIC CONTROL CENTER (ARTCC) , AT 3229 DEMOCRAT ROAD. TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 240 AND U.S. HIGHWAY 78, GO SOUTH (IN A SOUTHEASTERLY DIRECTION) ON U.S. HWY 78 FOR 1 MI (1.6 KM) TO THE INTERSECTION WITH DEMOCRAT ROAD. TURN RIGHT ON DEMOCRAT ROAD AND PROCEED WEST FOR 0.7 MI (1.1 KM) TO THE STATION ON THE LEFT AT THE TOP OF A RISE BY THE FENCE 0.1 MI (0.2 KM) WEST OF THE INTERSECTION OF DEMOCRAT ROAD AND TCHULAHOMA ROAD. IT IS, 11.3 M (37.1 FT) SOUTH-SOUTHWEST OF LIGHT POLE NUMBER 241292, 10 M (32.8 FT) SOUTH OF THE SOUTH CURB OF DEMOCRAT ROAD, 4.1 M (13.5 FT) EAST OF A TENNESSEE DEPARTMENT OF TRANSPORTATION GPS MONUMENT STAMPED 79-DEMO-01 1994, 2.0 M (6.6 FT) NORTH OF A CHAINLINK FENCE AND A CARSONITE WITNESS POST AND ABOUT 1.7 M (5.6 FT) ABOVE THE SURFACE OF DEMOCRAT ROAD. BY D.L. NOCK. 0.24 KM (0.15 MI) EAST OF THE AIR ROUTE TRAFFIC CONTROL CENTER</p>				

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080043	Date Monumented 5/17/2021	Monumented By AHTD	County Carroll	Route 62	Job Number: 090650
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	229,908.4900	0.0020			
Easting (M)	244,077.8548	0.0020			
Elevation (M)*					
Northing (SFT)	754,291.4376				
Easting (SFT)	800,778.7620				
Elevation (SFT)*					

Convergence Angle	-1	0	40.8671607
Scale Factor	1.000035510		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	The Quarter Sign post	327	9.66	31.7
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 ARHR Ref Mon # 3 ARRV, MOCS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Location Description	
FROM THE INTERSECTION OF US HWY. 62 AND STATE HWY 23 SOUTH. GO NORTH ON US HWY 62 FOR 0.45 MILES TO THE STATION ON THE RIGHT. 20.3FT EAST OF THE CL OF US HWY. 62, 13.8 FT SOUTHWEST OF A FENCE CORNER	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080043A	Date Monumented 5/17/2021	Monumented By AHTD	County Carroll	Route 62	Job Number: 090650
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	229,584.9446	0.0020			
Easting (M)	244,147.3843	0.0020			
Elevation (M)*					
Northing (SFT)	753,229.9391				
Easting (SFT)	801,006.8767				
Elevation (SFT)*					

Convergence Angle	-1	0	39.1106693
Scale Factor	1.000034795		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	340	18.71	61.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 ARHR Ref Mon # 3 ARRV, MOCS	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	36 23 24.9502056
Longitude	93 44 13.8513876
Ellipsoid Height (M):	422.952 0.0110
Geoid Height (M):	-28.234 0.0110

Location Description
FROM THE INTERSECTION OF US HWY. 62 AND STATE HWY 23 SOUTH. GO NORTH ON US HWY 62 FOR 0.25 MILES TO THE STATION ON THE LEFT. 26.2FT WEST OF THE CL OF US HWY. 62, 27 FT NORTH OF CL OF DRIVEWAY TO A BANK.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720071	Date Monumented 5/25/2021	Monumented By AHTD	County WASHINGTON	Route 412	Job Number: 040894
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	206,594.7578	0.0020			
Easting (M)	203,406.5673	0.0020			
Elevation (M)*	408.253				
Northing (SFT)	677,802.9679				
Easting (SFT)	667,343.0462				
Elevation (SFT)*	1,339.410				

Convergence Angle	-1	16	18.2024232
Scale Factor	0.999989138		
Elevation Adjust. Factor	0.9999359359		
Combined Adjust. Factor	0.9999250746		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST BRIDGE CORNER	209	89.70	294.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 ARHR Ref Mon # 3 CTA1, V 26	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	36	10	32.9100240
Longitude	94	11	7.6908120
Ellipsoid Height (M):	380.131	0.0060	
Geoid Height (M):	-28.098	0.0060	

Location Description
THE INTERSECTION OF US HWY. 412 AND US HWY. 71B IN SPRINGDALE, AR. GO WEST ON US HWY. 412 FOR 2.60 MILES TO THE STATION ON THE RIGHT. 6.2' EAST OF THE EAST EDGE OF I-49

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600079A	Date Monumented 5/18/2021	Monumented By AHTD S5101	County Pulaski	Route 107	Job Number: 061738
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	63,004.2231	0.0040			
Easting (M)	383,992.7987	0.0030			
Elevation (M)*	109.232				

Northing (SFT)	206,706.3553				
Easting (SFT)	1,259,816.3737				
Elevation (SFT)*	358.372				

Convergence Angle	0	6	6.8824713		
Scale Factor	1.000006496				
Elevation Adjust. Factor	0.9999828582				
Combined Adjust. Factor	0.9999893541				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>From the intersection of state highway 107 and state highway 89 West, East of Mayflower, Pulaski County, AR. Travel South along state highway 107 3.25 miles to the station on the Left. The station is 8.53M (28ft) Northeast of the centerline of state highway 107. The station is a standard 3 inch aluminum cap stamped 600079A (2021) set flush with the ground surface on top of a 5/8 inch rebar 4 foot in length and is at the north edge of a gravel driveway.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Northeast end of a 42" RCP		140	21.33	70.0
MK # 2	Southwest end of a 42" RCP		164	25.30	83.0
MK # 3	Chainlink Fence		220	21.64	71.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	ELEV EST. BY S5105 FROM NGS BM WAX 1939 DURING JOB 061738 IN MAY 2021.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600079	Date Monumented 5/18/2021	Monumented By AHTD S5101	County Pulaski	Route 107	Job Number: 061738
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	62,730.3674	0.0030			
Easting (M)	384,302.5689	0.0030			
Elevation (M)*	118.806				
Northing (SFT)	205,807.8804				
Easting (SFT)	1,260,832.6781				
Elevation (SFT)*	389.781				

Convergence Angle	0	5	59.7716544
Scale Factor	1.000007005		
Elevation Adjust. Factor	0.9999813559		
Combined Adjust. Factor	0.9999883608		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Chain Link Fence	40	16.46	54.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV EST. BY S5105 FROM NGS BM WAX 1939 DURING JOB 061738 IN MAY 2021.</td> </tr> </table>	Comments	ELEV EST. BY S5105 FROM NGS BM WAX 1939 DURING JOB 061738 IN MAY 2021.
Comments			
ELEV EST. BY S5105 FROM NGS BM WAX 1939 DURING JOB 061738 IN MAY 2021.			

Location Description
From the intersection of state highway 107 and state highway 89 West, East of Mayflower, Pulaski County, AR. Travel South along state highway 107 3.5 miles to the station on the Left. The station is 10.36M (34ft) Northeast of the centerline of state highway 107 and 0.1 miles Northwest of the intersection of state highway 107 and Arnold Drive. The station is a standard 3 inch aluminum cap stamped 600079 (2021) set flush with the ground surface on top of a 5/8 inch rebar 4 foot in length and is at the north edge of a gravel parking area.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620044A	Date Monumented 6/9/2021	Monumented By ARDOT	County Pulaski	Route N/A	Job Number: 061752
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	623,158.5389 0.0020
Easting (M)	363,620.6646 0.0020
Elevation (M)*	

Northing (SFT)	2,044,479.3064	
Easting (SFT)	1,192,978.7971	
Elevation (SFT)*		

Convergence Angle	0	13	19.8505993
Scale Factor	0.999981432		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	34 40 40.8098820
Longitude	92 23 49.0939944
Ellipsoid Height (M):	56.881 0.0030
Geoid Height (M):	-26.508 0.0030

Location Description

FROM THE INTERSECTION OF I-30 AND STATE HWY. 338 IN LITTLE ROCK, AR. GO WEST ON STATE HWY. 338 FOR 0.1 MILES TO MABELVALE PIKE ON THE RIGHT, GO NORTH ON MABELVALE PIKE FOR 0.275 MILES TO A FARM ROAD ON THE LEFT, GO WEST ON THE FARM ROAD FOR 0.85 MILES TO A Y IN THE ROAD, GO RIGHT AT THE Y FOR 0.1 MILES TO ANOTHER Y IN THE ROAD, GO LEFT AT THE Y FOR 0.15 MILES TO ANOTHER Y IN THE ROAD, GO LEFT AT THE Y FOR 0.15 MILES TO THE STATION IN THE MIDDLE OF THE DRIVE.

Location Reference Marks

Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 HIGH VOLTAGE POWERLINE POLE	181	10.06	33.0	AZ Mark Station
MK # 2				Geodetic Azimuth
MK # 3				Grid Azimuth

<p style="text-align: center; margin-bottom: 10px;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARGS</p> <p>Ref Mon # 2 ARLR</p> <p>Ref Mon # 3 ARPB, P777</p>	<div style="border: 1px solid black; height: 100px; margin-top: 10px;"></div> <p style="text-align: center; margin-top: 0;">Comments</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470028	Date Monumented 12/20/2022	Monumented By ARDOT	County MISSISSIPPI	Route I-55	Job Number: 101076
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	147,684.8605	0.0010			
Easting (M)	573,401.6887	0.0010			
Elevation (M)*					
Northing (SFT)	484,529.4132				
Easting (SFT)	1,881,235.3737				
Elevation (SFT)*					

Convergence Angle	1	6	51.5892313
Scale Factor	0.999936578		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	127	16.30	53.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARPG</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARWM</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARWY, TN49</td> </tr> </table>	Ref Mon # 1	ARPG	Ref Mon # 2	ARWM	Ref Mon # 3	ARWY, TN49	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT. </td> </tr> </table>	Comments	STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
Ref Mon # 1	ARPG								
Ref Mon # 2	ARWM								
Ref Mon # 3	ARWY, TN49								
Comments									
STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.									

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 35 38 57.5803824

Longitude 90 5 6.0401400

Ellipsoid Height (M): 42.501 0.0020

Geoid Height (M): -27.714 0.0020

Location Description

TO REACH FROM THE JCT. OF HWY 140 AND I-55 IN OSCEOLA, HEAD SOUTH ON I-55 FOR 3.85 MILES TO THE STATION ON THE RIGHT. THE STATION IS 88.0FT W OF THE I-55 EP, 53.8FT E OF A WEB WIRE FENCE, AND 53.5FT E OF A WITNESS POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470028 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470028A	Date Monumented 12/20/2022	Monumented By ARDOT	County MISSISSIPPI	Route I-55	Job Number: 101076
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	147,517.5124	0.0010			
Easting (M)	573,013.0349	0.0010			
Elevation (M)*					
Northing (SFT)	483,980.3719				
Easting (SFT)	1,879,960.2653				
Elevation (SFT)*					

Convergence Angle	1	6	42.5250000
Scale Factor	0.999936550		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	36	25.10	82.3
MK # 2	POWERPOLE	54	19.20	63.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 ARWM Ref Mon # 3 ARWY, TN49	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT. </td> </tr> </table>	Comments	STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
Comments			
STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.			

Location Description
TO REACH FROM THE JCT. OF HWY 181 AND I-55 NEAR KEISER HEAD NORTH/WEST ON HWY 181 FOR 0.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS 24.8FT EAST OF THE CENTER LINE OF HWY 181, AND 36.0FT E OF THE CENTER OF WEST COUNTY ROAD 828. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470028A 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470029	Date Monumented 12/20/2022	Monumented By ARDOT	County MISSISSIPPI	Route I-55	Job Number: 101076
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	149,071.7702	0.0010			
Easting (M)	574,187.6673	0.0010			
Elevation (M)*					
Northing (SFT)	489,079.6327				
Easting (SFT)	1,883,814.0385				
Elevation (SFT)*					

Convergence Angle	1	7	10.3948352
Scale Factor	0.999936845		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	128	17.40	57.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 ARWM Ref Mon # 3 ARWY, TN49	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT. </td> </tr> </table>	Comments	STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
Comments			
STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.			

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 35 39 42.0775956

Longitude 90 4 33.7225044

Ellipsoid Height (M): 42.719 0.0020

Geoid Height (M): -27.716 0.0020

Location Description

TO REACH FROM THE JCT. OF HWY 140 AND I-55 IN OSCEOLA, HEAD SOUTH ON I-55 FOR 2.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.0FT W OF THE I-55 EP, 57.3FT E OF A WEB WIRE FENCE, AND 57FT E OF A WITNESS POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470029 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470029A	Date Monumented 12/20/2022	Monumented By ARDOT	County MISSISSIPPI	Route I-55	Job Number: 101076
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	148,717.9431	0.0010			
Easting (M)	573,986.3112	0.0010			
Elevation (M)*					
Northing (SFT)	487,918.7850				
Easting (SFT)	1,883,153.4227				
Elevation (SFT)*					

Convergence Angle	1	7	5.5772342
Scale Factor	0.999936773		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	121	18.10	59.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG	STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
Ref Mon # 2 ARWM	
Ref Mon # 3 ARWY, TN49	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 39 30.7262772
Longitude	90 4 42.0016044
Ellipsoid Height (M):	42.227 0.0020
Geoid Height (M):	-27.716 0.0020

Location Description
<p>TO REACH FROM THE JCT. OF HWY 140 AND I-55 IN OSCEOLA, HEAD SOUTH ON I-55 FOR 3.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS 17.0FT W OF THE I-55 EP, AND 59.6FT E OF A WEB WIRE FENCE. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470029A 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470030	Date Monumented 12/20/2022	Monumented By ARDOT	County MISSISSIPPI	Route I-55	Job Number: 101076
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	150,503.2753 0.0010
Easting (M)	574,996.6986 0.0010
Elevation (M)*	

Northing (SFT)	493,776.1624	
Easting (SFT)	1,886,468.3353	
Elevation (SFT)*		

Convergence Angle	1	7	29.7598277
Scale Factor	0.999937170		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
TO REACH FROM THE JCT. OF HWY 140 AND I-55 IN OSCEOLA, HEAD SOUTH ON I-55 FOR 1.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS 15.6FT W OF THE I-55 EP, 62.0FT E OF A WEB WIRE FENCE, AND 62.0FT E OF A WITNESS POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470030 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	117	18.90	62.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 ARWM Ref Mon # 3 ARWY, TN49	Comments STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470030A	Date Monumented 12/20/2022	Monumented By ARDOT	County MISSISSIPPI	Route I-55	Job Number: 101076
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	150,154.1361 0.0010
Easting (M)	574,796.1137 0.0010
Elevation (M)*	

Northing (SFT)	492,630.6949	
Easting (SFT)	1,885,810.2497	
Elevation (SFT)*		

Convergence Angle	1	7	24.9606696
Scale Factor	0.999937086		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 FENCE POST	110	16.20	53.1	AZ Mark Station 470030
MK # 2				Geodetic Azimuth
MK # 3				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 ARWM Ref Mon # 3 ARWY, TN49	<div style="border: 1px solid black; padding: 5px;"> Comments STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT. </div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470031	Date Monumented 12/20/2022	Monumented By ARDOT	County MISSISSIPPI	Route I-55	Job Number: 101076
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	152,065.9089	0.0010			
Easting (M)	575,827.0080	0.0010			
Elevation (M)*					
Northing (SFT)	498,902.9028				
Easting (SFT)	1,889,192.4421				
Elevation (SFT)*					

Convergence Angle	1	7	49.6832115
Scale Factor	0.999937581		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	285	1.10	3.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG Ref Mon # 2 ARWM Ref Mon # 3 ARWY, TN49	STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.

Location Description	
TO REACH FROM THE JCT. OF HWY 140 AND I-55 IN OSCEOLA, TAKE THE I-55 ON RAMP/SANDY BAYOU ROAD. HEAD SOUTH ON THE ROAD FOR 0.2 MILES TO THE SPLIT OF THE ON RAMP AND SANDY BAYOU ROAD. KEEP RIGHT AT THE SPLIT TO STAY ON SANDY BAYOU ROAD. HEAD SOUTH ON SANDY BAYOU ROAD FOR 0.45 MILES TO THE STATION ON THE LEFT. THE STATION IS 15.9FT E OF THE CENTER LINE OF SANDY BAYOU ROAD, 3.7FT W OF A WEB WIRE FENCE, AND 3.7FT W OF A WITNESS POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470031 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470031A	Date Monumented 12/20/2022	Monumented By ARDOT	County MISSISSIPPI	Route I-55	Job Number: 101076
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	151,693.1827 0.0010
Easting (M)	575,631.0619 0.0010
Elevation (M)*	

Northing (SFT)	497,680.0502	
Easting (SFT)	1,888,549.5756	
Elevation (SFT)*		

Convergence Angle	1	7	44.9790312
Scale Factor	0.999937478		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH FROM THE JCT. OF HWY 140 AND I-55 IN OSCEOLA, TAKE THE I-55 ON RAMP/SANDY BAYOU ROAD. HEAD SOUTH ON THE ROAD FOR 0.2 MILES TO THE SPLIT OF THE ON RAMP AND SANDY BAYOU ROAD. KEEP RIGHT AT THE SPLIT TO STAY ON SANDY BAYOU ROAD. HEAD SOUTH ON SANDY BAYOU ROAD FOR 0.7 MILES TO THE STATION ON THE LEFT. THE STATION IS 16.2FT E OF THE CENTER LINE OF SANDY BAYOU ROAD AND 4.4FT W OF A WEB WIRE FENCE. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470031A 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 FENCE POST	291	1.30	4.3	AZ Mark Station 470031
MK # 2				Geodetic Azimuth
MK # 3				Grid Azimuth

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARPG</p> <p>Ref Mon # 2 ARWM</p> <p>Ref Mon # 3 ARWY, TN49</p>	<p style="text-align: center; margin: 0;">Comments</p> <p>STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.</p>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470032	Date Monumented 12/20/2022	Monumented By ARDOT	County MISSISSIPPI	Route I-55	Job Number: 101076
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	153,648.2031	0.0010			
Easting (M)	576,684.1403	0.0010			
Elevation (M)*					
Northing (SFT)	504,094.1463				
Easting (SFT)	1,892,004.5503				
Elevation (SFT)*					

Convergence Angle	1	8	10.2433209
Scale Factor	0.999938057		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	137	18.10	59.4
MK # 2				
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARPG</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARWM</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARWY, TN49</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARPG	Ref Mon # 2	ARWM	Ref Mon # 3	ARWY, TN49	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT. </td> </tr> </table>	Comments	STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARPG										
Ref Mon # 2	ARWM										
Ref Mon # 3	ARWY, TN49										
Comments											
STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.											

Location Description
TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 4.3MILES TO THE STATION ON THE RIGHT THE STATION IS 12.1FT W OF THE I-55 EP, AND 59.5FT E OF A WEB WIRE FENCE, AND 59.5FT E OF A WITNESS POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470032 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470032A	Date Monumented 12/20/2022	Monumented By ARDOT	County MISSISSIPPI	Route I-55	Job Number: 101076
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	153,287.1691 0.0010
Easting (M)	576,431.0553 0.0010
Elevation (M)*	

Northing (SFT)	502,909.6540	
Easting (SFT)	1,891,174.2206	
Elevation (SFT)*		

Convergence Angle	1	8	4.2204555
Scale Factor	0.999937943		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 4.35 MILES TO THE EXIT 48 OFF RAMP. DRIVE SOUTH ON THE EXIT FOR 0.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS 36.4FT W OF THE EXIT RAMP EP, AND 21.4FT E OF A WEB WIRE FENCE. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470032A 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	137	6.50	21.3
MK # 2				
MK # 3				

AZ Mark Station	470032
Geodetic Azimuth	
Grid Azimuth	

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARPG</p> <p>Ref Mon # 2 ARWM</p> <p>Ref Mon # 3 ARWY, TN49</p>	<p style="text-align: center; margin: 0;">Comments</p> <p>STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.</p>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470033	Date Monumented 12/20/2022	Monumented By ARDOT	County MISSISSIPPI	Route I-55	Job Number: 101076
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	155,651.9727	0.0010			
Easting (M)	577,743.0670	0.0010			
Elevation (M)*					
Northing (SFT)	510,668.1804				
Easting (SFT)	1,895,478.7123				
Elevation (SFT)*					

Convergence Angle	1	8	35.6764839
Scale Factor	0.999938747		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 2.95 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.3FT W OF THE I-55 EP, 42.5FT E OF A WEB WIRE FENCE, AND 40.5FT E OF A WITNESS POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470033 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.				

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	FENCE POST	127	13.00	42.7	470033A
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG	STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
Ref Mon # 2 ARWM	
Ref Mon # 3 ARWY, TN49	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470033A	Date Monumented 12/20/2022	Monumented By ARDOT	County MISSISSIPPI	Route I-55	Job Number: 101076
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (1986)
Northing (M)	155,278.1572 0.0010
Easting (M)	577,545.5952 0.0010
Elevation (M)*	

Northing (SFT)	509,441.7541	
Easting (SFT)	1,894,830.8403	
Elevation (SFT)*		

Convergence Angle	1	8	30.9327049
Scale Factor	0.999938611		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 3.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.2FT W OF THE I-55 EP, AND 51.9FT E OF A WEB WIRE FENCE, AND 128FT S OF THE CENTER OF A HEAD WALL. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470033A 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	114	15.80	51.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 ARWM Ref Mon # 3 ARWY, TN49	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="padding: 5px;"> STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT. </td> </tr> </table>	Comments	STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
Comments			
STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.			

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470034	Date Monumented 12/20/2022	Monumented By ARDOT	County MISSISSIPPI	Route I-55	Job Number: 101076
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	157,164.9968 0.0010
Easting (M)	578,542.5661 0.0010
Elevation (M)*	
Northing (SFT)	515,632.1603
Easting (SFT)	1,898,101.7356
Elevation (SFT)*	

Convergence Angle	1 8 54.8863202
Scale Factor	0.999939332
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 1.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.7FT W OF THE I-55 EP, AND 78.3FT E OF A WEB WIRE FENCE, AND 78.0FT E OF A WITNESS POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470034 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					470034A	
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 ARWM Ref Mon # 3 ARWY, TN49	Comments STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470034A	Date Monumented 12/20/2022	Monumented By ARDOT	County MISSISSIPPI	Route I-55	Job Number: 101076
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	156,795.0630	0.0010			
Easting (M)	578,347.1947	0.0010			
Elevation (M)*					
Northing (SFT)	514,418.4692				
Easting (SFT)	1,897,460.7546				
Elevation (SFT)*					

Convergence Angle	1	8	50.1913760
Scale Factor	0.999939184		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 2.15 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12.2FT W OF THE I-55 EP, AND 62.0 FT E OF A WEB WIRE FENCE. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470034A 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	FENCE POST	113	18.90	62.0	AZ Mark Station 470034
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 ARWM Ref Mon # 3 ARWY, TN49	Comments STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470035	Date Monumented 12/20/2022	Monumented By ARDOT	County MISSISSIPPI	Route I-55	Job Number: 101076
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	159,108.0247 0.0010
Easting (M)	579,567.7790 0.0010
Elevation (M)*	
Northing (SFT)	522,006.9110
Easting (SFT)	1,901,465.2883
Elevation (SFT)*	

Convergence Angle	1 9 19.5302407
Scale Factor	0.999940164
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 0.35 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.6FT W OF THE I-55 EP, AND 39.8FT E OF A WITNESS POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470035 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
Ref Mon # 1 ARPG	
Ref Mon # 2 ARWM	
Ref Mon # 3 ARWY, TN49	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 620044	Date Monumented 6/9/2021	Monumented By AHTD	County Pulaski	Route N/A	Job Number: 061752
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	622,791.6908	0.0020			
Easting (M)	363,007.4938	0.0020			
Elevation (M)*		0.0017			
Northing (SFT)	2,043,275.7389				
Easting (SFT)	1,190,967.0859				
Elevation (SFT)*					

Convergence Angle	0	13	33.3000753
Scale Factor	0.999980782		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GATE POST	171	7.38	24.2
MK # 2	CL TRANSMISSION LINE	7	10.42	34.2
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARGS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARPB, P777</td> </tr> </table>	Ref Mon # 1	ARGS	Ref Mon # 2	ARLR	Ref Mon # 3	ARPB, P777	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARGS							
Ref Mon # 2	ARLR							
Ref Mon # 3	ARPB, P777							
Comments								

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	34 40 28.8271524
Longitude	92 24 13.1241888
Ellipsoid Height (M):	61.381 0.0030
Geoid Height (M):	-26.503 0.0030

Location Description
THE INTERSECTION OF STATE HWY. 338 AND I-430 IN LITTLE ROCK, GO EAST ON STATE HWY. 338 FOR 0.2 MILES TO SIBLEY HOLE RD. AND TURN LEFT AND GO FOR 0.2 MILES TO THE 2ND TURN IN TO ARDOT CENTRAL SHOPS AND TURN RIGHT AND GO FOR 0.05 MILES AND TURN LEFT AND GO DOWN THE HILL FOR 0.5 MILES TO A GATE ON THE LEFT, TURN LEFT AND GO THROUGH THE GATE TO THE STATION ON THE RIGHT.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station S 320	Date Monumented 4/4/2007	Monumented By NGS	County PULASKI	Route N/A	Job Number: 061752
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	622,686.8646	0.0030			
Easting (M)	362,941.4302	0.0030			
Elevation (M)*					
Northing (SFT)	2,042,931.8216				
Easting (SFT)	1,190,750.3422				
Elevation (SFT)*					

Convergence Angle	0	13	34.7434009		
Scale Factor	0.999980597				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>DESCRIBED BY NATIONAL GEODETIC SURVEY 2007 THE MARK IS LOCATED ABOUT 4.0 MILES SOUTHWEST OF LITTLE ROCK ARKANSAS. OWNERSHIP--ROAD RIGHT-OF-WAY. AT AHTD CENTRAL SHOPS.</p> <p>TO REACH FROM THE INTERSECTION OF US INTERSTATE 430 AND STATE HIGHWAY 5 IN SOUTHWEST LITTLE ROCK, GO SOUTH ON HIGHWAY 5 FOR 0.85 MILES TO A STOPLIGHT AT BASELINE ROAD, (HIGHWAY 338) TURN LEFT ON BASELINE ROAD AND GO 0.9 MILES TO A PAVED ROAD ON THE LEFT,(ENTRANCE TO AHTD SHOPS) TURN LEFT AND GO 0.2 MILES TO SECOND DRIVE ON THE RIGHT, TURN RIGHT AND GO 0.05 MILES TO THE STATION ON THE LEFT.</p> <p>19.3 METERS WEST OF BEND IN THE CURB FOR PARKING AREA, 11.7 METERS WEST OF THE CENTER OF CONCRETE DRAINAGE DITCH, 11.0 METERS EAST OF THE DK2846'MIDDLE OF A CONCRETE CURB, AND 0.3 METERS</p>					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS Ref Mon # 2 ARLR Ref Mon # 3 ARPB, P777	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station T 320	Date Monumented 4/4/2007	Monumented By NGS	County PULASKI	Route N/A	Job Number: 061752
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	622,678.8595 0.0030
Easting (M)	363,051.5038 0.0030
Elevation (M)*	
Northing (SFT)	2,042,905.5582
Easting (SFT)	1,191,111.4754
Elevation (SFT)*	

Convergence Angle	0 13 32.3227324
Scale Factor	0.999980584
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By: 1st Order - NGS
Elevation Datum: NAVD 88
Geoid Datum: Geoid 18
Latitude 34 40 25.1711868
Longitude 92 24 11.3779692
Ellipsoid Height (M): 63.331
Geoid Height (M): -26.500

Location Description
<p>DESCRIBED BY NATIONAL GEODETIC SURVEY 2007 THE MARK IS LOCATED ABOUT 4.0 MI (6.4 KM) SOUTHWEST OF LITTLE ROCK ARKANSAS. OWNERSHIP--ROAD RIGHT-OF-WAY. AT AHTD CENTRAL SHOPS.</p> <p>TO REACH FROM THE INTERSECTION OF US INTERSTATE 430 AND STATE HIGHWAY 5 IN SOUTHWEST LITTLE ROCK, GO SOUTH ON HIGHWAY 5 FOR 0.85 MI (1.4 KM) TO A STOPLIGHT AT BASELINE ROAD, (HIGHWAY 338) TURN LEFT ON BASELINE ROAD AND GO 0.9 MI (1.4 KM) TO A PAVED ROAD ON THE LEFT, (ENTRANCE TO AHTD SHOPS) TURN LEFT AND GO 0.2 MI (0.3 KM) TO SECOND DRIVE ON THE RIGHT, TURN RIGHT AND GO 0.15 MI (0.2 KM) TO THE STATION ON THE RIGHT. SET IN THE LOWER LEVEL PARKING LOT SOUTHEAST OF BUILDING 6-60-78 IN A MANHOLE COVER. DK2847' DK2847'24.2 METERS WEST OF THE EDGE OF PARKING LOT</p>

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARGS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARPB, P777</td> </tr> </table>	Ref Mon # 1	ARGS	Ref Mon # 2	ARLR	Ref Mon # 3	ARPB, P777	Comments
Ref Mon # 1	ARGS						
Ref Mon # 2	ARLR						
Ref Mon # 3	ARPB, P777						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260038	Date Monumented 6/14/2021	Monumented By AHTD	County Garland	Route 227	Job Number: 061748
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	618,301.0655	0.0030			
Easting (M)	293,071.3221	0.0040			
Elevation (M)*					
Northing (SFT)	2,028,542.7457				
Easting (SFT)	961,518.1626				
Elevation (SFT)*					

Convergence Angle	0	39	9.6701097		
Scale Factor	0.999972264				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
FROM INTERSECTION OF STATE HWY. 192 AND STATE HWY. 227, GO NORTH ON STATE HWY. 227 FOR 2.5 MILES TO MOUNTAIN PINE RD. ON THE RIGHT, TURN ON MOUNTAIN PINE RD. AND GO FOR 0.5 MILES TO 3 SISTERS SPRINGS RD., CONTINUE NORTHWEST ON 3 SISTERS SPRINGS RD. FOR 0.65 MILES TO THE STATION ON THE LEFT. 41.7' WEST OF A WHITE COMPOSIT FENCE					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	POWER POLE		18	110.50	362.5
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARGS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARLR, ARRV</td> </tr> </table>	Ref Mon # 1	ARGS	Ref Mon # 2	ARHP	Ref Mon # 3	ARLR, ARRV	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARGS						
Ref Mon # 2	ARHP						
Ref Mon # 3	ARLR, ARRV						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260038A	Date Monumented 6/14/2021	Monumented By AHTD	County Garland	Route 227	Job Number: 061748
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	618,554.5132	0.0030	
Easting (M)	293,192.0550	0.0040	
Elevation (M)*			
Northing (SFT)	2,029,374.2654		
Easting (SFT)	961,914.2671		
Elevation (SFT)*			

Convergence Angle	0	39	7.0807026
Scale Factor	0.999972680		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE/ GY	8	12.70	41.7
MK # 2	FENCE CORNER	214	53.70	176.2
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARGS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARLR, ARRV</td> </tr> </table>	Ref Mon # 1	ARGS	Ref Mon # 2	ARHP	Ref Mon # 3	ARLR, ARRV	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARGS							
Ref Mon # 2	ARHP							
Ref Mon # 3	ARLR, ARRV							
Comments								

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300016	Date Monumented 6/24/2021	Monumented By ARDOT	County Hot Springs	Route 283	Job Number: 061741
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	573,214.4997	0.0020			
Easting (M)	307,811.6004	0.0020			
Elevation (M)*					
Northing (SFT)	1,880,621.2378				
Easting (SFT)	1,009,878.5590				
Elevation (SFT)*					

Convergence Angle	0	33	36.1034257
Scale Factor	0.999923942		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE PEDESTAL	262	16.55	54.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARCM</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARDQ</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARGS, ARLR</td> </tr> </table>	Ref Mon # 1	ARCM	Ref Mon # 2	ARDQ	Ref Mon # 3	ARGS, ARLR	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARCM							
Ref Mon # 2	ARDQ							
Ref Mon # 3	ARGS, ARLR							
Comments								

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	34 13 27.5711628
Longitude	93 0 2.1743316
Ellipsoid Height (M):	63.383 0.0100
Geoid Height (M):	-26.761 0.0100

Location Description
FROM THE INTERSECTION OF US HWY. 67 AND STATE HWY. 283 IN FRIENDSHIP, GO EAST ON US HWY. 67 FOR 0.1 MILES TO THE STATION ON THE LEFT. THE POINT IS 25.7 FT. NORTH OF US HWY. 67. 20.6 FT. SOUTH OF A CHAINLINK FENCE. 75 FT. EAST OF THE CENTERLINE OF PARK STREET.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 300016A	Date Monumented 6/24/2021	Monumented By ARDOT	County Hot Springs	Route 283	Job Number: 061741
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	573,380.4517	0.0030			
Easting (M)	308,181.2018	0.0030			
Elevation (M)*					
Northing (SFT)	1,881,165.6986				
Easting (SFT)	1,011,091.1596				
Elevation (SFT)*					

Convergence Angle	0	33	28.0563137		
Scale Factor	0.999924030				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
FROM THE INTERSECTION OF US HWY. 67 AND STATE HWY. 283 IN FRIENDSHIP, GO EAST ON US HWY. 67 FOR 0.35 MILES TO THE STATION ON THE RIGHT. THE POINT IS 24.2 FT. SOUTH OF THE CENTERLINE OF US HWY. 67. 33.5 FT. WEST OF THE CENTERLINE OF A DRIVEWAY. 47.6 FT. NORTHEAST OF THE EAST END OF A HEADWALL.					

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	COMBINATION POLE	224	23.50	77.1	
MK # 2	TELEPHONE PEDESTAL	73	22.37	73.4	
MK # 3					
Area Reference Monuments (used for Processing)					
Ref Mon # 1	ARCM				
Ref Mon # 2	ARDQ				
Ref Mon # 3	ARGS, ARLR				
Comments					

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280026	Date Monumented 9/13/2021	Monumented By ARDOT	County Greene	Route 168	Job Number: 101127
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	184,466.4659	0.0040	
Easting (M)	509,916.6578	0.0040	
Elevation (M)*			
Northing (SFT)	605,203.7302		
Easting (SFT)	1,672,951.5681		
Elevation (SFT)*			

Convergence Angle	0	42	33.6113748
Scale Factor	0.999960935		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	273	3.99	13.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="ARJB"/> Ref Mon # 2 <input style="width: 150px;" type="text" value="ARPG"/> Ref Mon # 3 <input style="width: 150px;" type="text" value="MOAT"/>	

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 59 23.6762268
Longitude	90 46 51.5909928
Ellipsoid Height (M):	49.722 0.0210
Geoid Height (M):	-27.955 0.0210

Location Description
<p>From the junction of Hwy. 228 and Hwy. 168 in Fontaine. Go East on Hwy. 168 for 1.8 miles to Greene Co. Rd. 322. Go South/Right on Greene Co. Rd. 322 for 0.5 miles to the station on the right. The station is 12 ft. East of a witness post, 12.5 ft. West of the center of Greene Co. Rd. 322, 13.1 Ft. East of a power pole. The station mark is a 2 ½ in. cap stamped "280026 2021" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.</p>

AZ Mark Station	280026A
Geodetic Azimuth	
Grid Azimuth	

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280026A	Date Monumented 9/13/2021	Monumented By ARDOT	County Greene	Route 168	Job Number: 101127
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	184,864.1983 0.0030
Easting (M)	509,920.0019 0.0040
Elevation (M)*	
Northing (SFT)	606,508.6239
Easting (SFT)	1,672,962.5396
Elevation (SFT)*	

Convergence Angle	0 42 33.8034566
Scale Factor	0.999961379
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
<p>From the junction of Hwy. 228 and Hwy. 168 in Fontaine. Go East on Hwy. 168 for 1.8 miles to Greene Co. Rd. 322. Go South/Right on Greene Co. Rd. 322 for 0.3 miles to the station on the right. The station is 5 ft. East of a witness post, 16.8 ft. West of the center of Greene Co. Rd. 322, 121 Ft. South of a power pole. The station mark is a 2 1/2 in. cap stamped "280026A 2021" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	359	36.88	121.0
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARJB</p> <p>Ref Mon # 2 ARPG</p> <p>Ref Mon # 3 MOAT</p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280027	Date Monumented 9/13/2021	Monumented By ARDOT	County Greene	Route 168	Job Number: 101127
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	185,592.8062	0.0040			
Easting (M)	511,556.0836	0.0040			
Elevation (M)*					
Northing (SFT)	608,899.0650				
Easting (SFT)	1,678,330.2509				
Elevation (SFT)*					

Convergence Angle	0	43	12.0237615
Scale Factor	0.999962179		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	14	1.83	6.0
MK # 2	Well Head	14	17.89	58.7
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARJB</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARPG</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MOAT</td> </tr> </table>	Ref Mon # 1	ARJB	Ref Mon # 2	ARPG	Ref Mon # 3	MOAT	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARJB						
Ref Mon # 2	ARPG						
Ref Mon # 3	MOAT						

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 35 59 59.5548024

Longitude 90 45 45.5788872

Ellipsoid Height (M): 51.879 0.0210

Geoid Height (M): -27.974 0.0210

Location Description

From the junction of Hwy. 228 and Hwy. 168 in Fontaine. Go East on Hwy. 168 for 2.8 miles to Greene Co. Rd. 308. Go North/Left on Greene Co. Rd. 308 for 0.2 miles to the station on the right. The station is 5.9 ft. South of a witness post, 25.4 ft. East of center of Greene Co. Rd. 308, 6.00 Ft. South of a power pole, and 58.70 Ft. South of a well head. The station mark is a 2 ½ in. cap stamped "280027 2021" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 280027A	Date Monumented 9/13/2021	Monumented By ARDOT	County Greene	Route 168	Job Number: 101127
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	186,009.3807	0.0040			
Easting (M)	511,545.4331	0.0040			
Elevation (M)*					
Northing (SFT)	610,265.7765				
Easting (SFT)	1,678,295.3084				
Elevation (SFT)*					

Convergence Angle	0	43	11.8979435
Scale Factor	0.999962656		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MOAT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	36 0 13.0740984
Longitude	90 45 45.7951068
Ellipsoid Height (M):	51.284 0.0210
Geoid Height (M):	-27.980 0.0210

Location Description
<p>From the junction of Hwy. 228 and Hwy. 168 in Fontaine. Go East on Hwy. 168 for 2.8 miles to Greene Co. Rd. 308. Go North/Left on Greene Co. Rd. 308 for 0.4 miles to the station on the Left. The station is 4.0 ft. South of a witness post, 22.6 ft. West of center of Greene Co. Rd. 308, 19.80 Ft North of a field entrance. The station mark is a 2 ½ in. cap stamped "280027A 2021" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.</p>

AZ Mark Station	280027
Geodetic Azimuth	
Grid Azimuth	

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110023	Date Monumented 9/13/2021	Monumented By ARDOT	County Clay	Route 328	Job Number: 101121
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	235,899.2943	0.0030			
Easting (M)	518,667.9896	0.0040			
Elevation (M)*					
Northing (SFT)	773,946.2680				
Easting (SFT)	1,701,663.2292				
Elevation (SFT)*					

Convergence Angle	0	46	12.9639860
Scale Factor	1.000050647		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	85	1.00	3.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB Ref Mon # 2 ARPG Ref Mon # 3 MODP, MODX	

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 36 27 8.5172472

Longitude 90 40 34.6311372

Ellipsoid Height (M): 60.787 0.0160

Geoid Height (M): -28.803 0.0160

Location Description

From the junction of Hwy. 67 and Hwy. 328 in Corning. Go West/Left on Hwy. 328 for 5.1 miles to Clay Co. Rd. 176. Go South/Left on Clay Co. Rd. 176 for 0.2 miles to the station on the left. The station is 2.0 ft. West of a witness post. It is 17.50 ft. East of the center of Clay Co. Rd. 176, and it is 2.6 ft. west of a power pole. The station mark is a 2 ½ in. cap stamped "110023 2021" set on top of a 5/8" in. by 4 ft. rebar driven 0.10 in. below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110023A	Date Monumented 9/13/2021	Monumented By ARDOT	County Clay	Route 328	Job Number: 101121
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	235,479.1151 0.0030
Easting (M)	518,679.2763 0.0040
Elevation (M)*	
Northing (SFT)	772,567.7301
Easting (SFT)	1,701,700.2590
Elevation (SFT)*	

Convergence Angle	0	46	13.0956989
Scale Factor	1.000049646		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	6	1.00	3.3
MK # 2	Wellhead	82	25.00	82.0
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARJB</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARPG</td> </tr> <tr> <td>Ref Mon # 3</td> <td>MODP, MODX</td> </tr> </table>	Ref Mon # 1	ARJB	Ref Mon # 2	ARPG	Ref Mon # 3	MODP, MODX	<table style="width: 100%;"> <tr> <td style="text-align: center;">Comments</td> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Ref Mon # 1	ARJB								
Ref Mon # 2	ARPG								
Ref Mon # 3	MODP, MODX								
Comments									

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	36 26 54.8828016
Longitude	90 40 34.4047872
Ellipsoid Height (M):	60.203 0.0160
Geoid Height (M):	-28.791 0.0160

Location Description
From the junction of Hwy. 67 and Hwy. 328 in Corning. Go West/Left on Hwy. 328 for 5.1 miles to Clay Co. Rd. 176. Go South/Left on Clay Co. Rd. 176 for 0.4 miles to the station on the left. The station is 3.70 ft. South of a witness post. It is 23.70 ft. East of the center of Clay Co. Rd. 176, it is 3.30 ft. South of a power pole, and 82.02 Ft. West of a wellhead. The station mark is a 2 ½ in. cap stamped "110023A 2021" set on top of a 5/8" in. by 4 ft. rebar driven 0.10 in. below the surface.

AZ Mark Station	110023
Geodetic Azimuth	
Grid Azimuth	

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110024	Date Monumented 9/13/2021	Monumented By ARDOT	County Clay	Route 328	Job Number: 101121
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	236,521.4126 0.0030
Easting (M)	520,673.4754 0.0030
Elevation (M)*	

Northing (SFT)	775,987.3345	
Easting (SFT)	1,708,242.8939	
Elevation (SFT)*		

Convergence Angle	0	47	0.0199503
Scale Factor	1.000052071		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
From the junction of Hwy. 67 and Hwy. 328 in Corning. Go West/Left on Hwy. 328 for 3.8 miles to Clay Co. Rd. 191. Go North/Right on Clay Co. Rd. 191 for 0.1 miles to the station on the left. The station is 3.0 ft. south of a witness post. It is 31.20 ft. West of the center of Clay Co. Rd 191, and 32.40 ft. southwest of center of field entrance. The station mark is a 2 ½ in. cap stamped "110024 2021" set on top of a 5/8" in. by 4 ft. rebar driven 0.10 in. below the surface.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	178	39.00	128.0
MK # 2	Wellhead	145	38.00	124.7
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARJB Ref Mon # 2 ARPG Ref Mon # 3 MODP, MODX	<div style="border: 1px solid black; height: 100px; margin-bottom: 5px;"></div> Comments
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110024A	Date Monumented 9/13/2021	Monumented By ARDOT	County Clay	Route 328	Job Number: 101121
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	236,853.8448 0.0030
Easting (M)	520,667.7555 0.0040
Elevation (M)*	

Northing (SFT)	777,077.9891	
Easting (SFT)	1,708,224.1278	
Elevation (SFT)*		

Convergence Angle	0	46	59.9925017
Scale Factor	1.000052870		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

From the junction of Hwy. 67 and Hwy. 328 in Corning. Go West/Left on Hwy. 328 for 3.8 miles to Clay Co. Rd. 191. Go North/Right on Clay Co. Rd. 191 for 0.3 miles to the station on the left. The station is 2.0 ft. West of a witness post. It is 30.50 ft. West of the center of Clay Co. Rd 191, and 156.00 ft. Northeast of a wellhead. The station mark is a 2 ½ in. cap stamped "110024A 2021" set on top of a 5/8" in. by 4 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 Wellhead	194	47.50	155.8	AZ Mark Station 110024
MK # 2				Geodetic Azimuth
MK # 3				Grid Azimuth

<p style="text-align: center; margin-bottom: 10px;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARJB</p> <p>Ref Mon # 2 ARPG</p> <p>Ref Mon # 3 MODP, MODX</p>	<div style="border: 1px solid black; height: 100px; margin-top: 10px;"></div> <p style="text-align: center; margin-top: 0;">Comments</p>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240019	Date Monumented 11/9/2021	Monumented By ARDOT	County Franklin	Route 64	Job Number: 040868
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	129,474.1094	0.0010			
Easting (M)	235,171.9648	0.0010			
Elevation (M)*	117.446				
Northing (SFT)	424,782.9739				
Easting (SFT)	771,560.0212				
Elevation (SFT)*	385.320				

Convergence Angle	-1	3	25.5149906
Scale Factor	0.999937378		
Elevation Adjust. Factor	0.9999815693		
Combined Adjust. Factor	0.9999189484		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Firehydrant	131	9.88	32.4
MK # 2	Powerpole	93	28.35	93.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARDQ Ref Mon # 2 ARFY Ref Mon # 3 ARR V	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS PUBLISHED 1ST ORDER BM N 296 FOR JOB #040868.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS PUBLISHED 1ST ORDER BM N 296 FOR JOB #040868.
Comments			
ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS PUBLISHED 1ST ORDER BM N 296 FOR JOB #040868.			

Vertical Determined By: 3rd Order - Digital Levels

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 35 29 12.0404796

Longitude 93 48 59.8190292

Ellipsoid Height (M): 88.215 0.0060

Geoid Height (M): -29.232 0.0060

Location Description

To reach from the junction of Hwy 64 and Hwy 23 in Ozark. Go East on Hwy 64 for 0.8 miles to the station on the left. The station is 33.7 ft West of a powerpole, 29.2 ft Northwest of a SS manhole, 92.5 ft North of the centerline of Hwy 64. The station mark is a 2 1/2 in. cap stamped "240019 2021" set on top of a 5/8 in. by 4 ft rebar driven 0.10 in. below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240019A	Date Monumented 11/9/2021	Monumented By ARDOT	County Franklin	Route 64	Job Number: 040868
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	129,431.3206	0.0010			
Easting (M)	234,683.4212	0.0010			
Elevation (M)*	115.847				
Northing (SFT)	424,642.5910				
Easting (SFT)	769,957.1911				
Elevation (SFT)*	380.074				

Convergence Angle	-1	3	36.7735321
Scale Factor	0.999937392		
Elevation Adjust. Factor	0.9999818202		
Combined Adjust. Factor	0.9999192133		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Lightpole	49	10.76	35.3
MK # 2	Rock Pillar	279	35.48	116.4
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARDQ Ref Mon # 2 ARFY Ref Mon # 3 ARR V	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS PUBLISHED 1ST ORDER BM N 296 FOR JOB #040868.</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS PUBLISHED 1ST ORDER BM N 296 FOR JOB #040868.
Comments			
ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS PUBLISHED 1ST ORDER BM N 296 FOR JOB #040868.			

Vertical Determined By: 3rd Order - Digital Levels

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 35 29 10.3593588

Longitude 93 49 19.1669556

Ellipsoid Height (M): 86.607 0.0060

Geoid Height (M): -29.238 0.0060

Location Description

To reach from the junction of Hwy 64 and Hwy 23 in Ozark. Go East on Hwy 64 for 0.5 miles to the station on the right. The station is 7 ft. East of a witness post, 50 ft. South of the center of Hwy 64, and 54.1 ft. Northwest of a lightpole. The station mark is a 2 1/2 in. cap stamped "240019A 2021" set on top of a 5/8 in. by 4 ft rebar driven 0.10 in. below the surface.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650050	Date Monumented 11/22/2021	Monumented By ARDOT	County Sebastian	Route 22	Job Number: 040888
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	116,929.1546	0.0010			
Easting (M)	184,225.0633	0.0010			
Elevation (M)*					
Northing (SFT)	383,625.0681				
Easting (SFT)	604,411.7285				
Elevation (SFT)*					

Convergence Angle	-1	22	54.3799290
Scale Factor	0.999943293		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Firehydrant	256	6.00	19.7	650050A
MK # 2	Water Valve	9	14.84	48.7	
MK # 3	First National Bank Sign	113	27.28	89.5	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 150px;"></div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 21 49.8712608
Longitude	94 22 28.5261780
Ellipsoid Height (M):	119.272 0.0030
Geoid Height (M):	-30.148 0.0030

Location Description
To reach from the junction of Hwy. 22 and Hwy 255 in Fort Smith. Go West on Hwy 22 for 2.4 miles to the station on the right. The station is 36.6 ft. west of Euper Ln, 19.0 Ft. north of edge of Hwy 22, 14.5 ft. Northeast of a powerpole. The station Mark is a 2 1/2 inl cap stamped "650050 2021" set ontop of a 5/8 in by 4ft rebar driven 0.10 in. below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470027	Date Monumented 5/16/2022	Monumented By ARDOT	County Mississippi	Route rth Main	Job Number: C47017
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	160,355.8134 0.0020
Easting (M)	587,351.1486 0.0010
Elevation (M)*	74.724
Northing (SFT)	526,100.6978
Easting (SFT)	1,927,001.2267
Elevation (SFT)*	245.156

Convergence Angle	1 12 20.3812001
Scale Factor	0.999940675
Elevation Adjust. Factor	0.9999882736
Combined Adjust. Factor	0.9999289493

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:		GPS - Unknown Quality	
Elevation Datum:		NAVD 88	
Geoid Datum:		Geoid 18	
Latitude	35 45	39.4802496	
Longitude	89 55	41.0075544	
Ellipsoid Height (M):	46.895	0.0070	
Geoid Height (M):	-27.761	0.0070	

Location Description
<p>To reach from the Junction of Hwy 61 and Hwy 158/Calhoun St. in Luxora head east on Calhoun St. for 0.45 miles to North Main St. Head north/left on North Main St. for 0.3 miles to the station on the left. The station is 17.3ft. west of the centerline of North Main St, and 73.5ft. South of the center of a gravel driveway. The station mark is a 2 1/2 in. cap stamped "470027 2022" set on top of a 5/8 in. by 4ft rebar driven 0.10 in. below the surface.</p>

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	PowerPole	300	21.90	71.9	470027A
MK # 2	Powerpole	6	25.50	83.7	
MK # 3					

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARJB	
Ref Mon # 2	ARPG	<p>ELEVATION BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BMs F 214 & U 355 BY S5103 IN MAY 2022 FOR JOB #C47017</p> <p>*****USED</p> <p>ORTHOMETRIC HTS. ON ARDOT CORS SITES ARJB & ARPG AS CONSTRAINTS FOR STATIC DERIVED ELEVATION.</p>
Ref Mon # 3	ARWY, TN44	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470027A	Date Monumented 5/16/2022	Monumented By ARDOT	County Mississippi	Route rth Main	Job Number: C47017
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	159,908.3521	0.0020			
Easting (M)	587,383.9148	0.0010			
Elevation (M)*	74.745				
Northing (SFT)	524,632.6518				
Easting (SFT)	1,927,108.7271				
Elevation (SFT)*	245.227				

Convergence Angle	1	12	20.9219404
Scale Factor	0.999940461		
Elevation Adjust. Factor	0.9999882702		
Combined Adjust. Factor	0.9999287319		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Flag Pole	338	20.30	66.6
MK # 2	Light Pole	270	33.80	110.9
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARJB Ref Mon # 2 ARPG Ref Mon # 3 ARWY, TN44	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> ELEVATION BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BMs F 214 & U 355 BY S5103 IN MAY 2022 FOR JOB #C47017 *****USED ORTHOMETRIC HTS. ON ARDOT CORS SITES ARJB & ARPG AS CONSTRAINTS FOR STATIC DERIVED ELEVATION. </td> </tr> </table>	Comments	ELEVATION BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BMs F 214 & U 355 BY S5103 IN MAY 2022 FOR JOB #C47017 *****USED ORTHOMETRIC HTS. ON ARDOT CORS SITES ARJB & ARPG AS CONSTRAINTS FOR STATIC DERIVED ELEVATION.
Comments			
ELEVATION BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BMs F 214 & U 355 BY S5103 IN MAY 2022 FOR JOB #C47017 *****USED ORTHOMETRIC HTS. ON ARDOT CORS SITES ARJB & ARPG AS CONSTRAINTS FOR STATIC DERIVED ELEVATION.			

Location Description	
To reach from the Junction of Hwy 61 and Hwy 158/Calhoun St. in Luxora head east on Calhoun St. for 0.45 miles to North Main St. Head north/left on North Main St. for 0.05 miles to the station on the right. The station is 83.2ft. East of the centerline of Main St, 66.8ft. NW of a flag pole, and 111.0ft west of a light pole. The station mark is a 2 1/2 in. cap stamped "470027A 2022" set ontop of a 5/8 in. by 4ft rebar driven 0.10 in. below the surface.	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040108-1	Date Monumented 5/9/2022	Monumented By AHTD (S5101)	County Benton	Route I - 49	Job Number: 090646
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	225,889.7240	0.0018
Easting (M)	204,329.9895	0.0018
Elevation (M)*	395.816	0.0048
Northing (SFT)	741,106.5362	
Easting (SFT)	670,372.6406	
Elevation (SFT)*	1,298.605	

Convergence Angle	-1	16	6.6516394
Scale Factor	1.000025111		
Elevation Adjust. Factor	0.9999378875		
Combined Adjust. Factor	0.9999629969		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SIGN OVER INTERSTATE	102	15.85	52.0
MK # 2	METAL LIGHT POLE WITH CONC. BASE	332	13.11	43.0
MK # 3	SANITARY SEWER MANHOLE	202	21.65	71.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> IN FRONT (EAST) OF SOUTHERN MOST BUILDING OF LAKESIDE CENTER OFFICE COMPLEX, 4 FT (1.22M) EAST OF THE R/W FENCE AND 10 FT (3.05M) EAST OF THE BACK OF PARKING LOT CURB. ELEV EST. BY DIGITAL LEVEL RUN FROM NGS BM R 26 DURING JOB 090646 BY CREW S5101 IN MAY 2022. </td> </tr> </table>	Comments	IN FRONT (EAST) OF SOUTHERN MOST BUILDING OF LAKESIDE CENTER OFFICE COMPLEX, 4 FT (1.22M) EAST OF THE R/W FENCE AND 10 FT (3.05M) EAST OF THE BACK OF PARKING LOT CURB. ELEV EST. BY DIGITAL LEVEL RUN FROM NGS BM R 26 DURING JOB 090646 BY CREW S5101 IN MAY 2022.
Comments			
IN FRONT (EAST) OF SOUTHERN MOST BUILDING OF LAKESIDE CENTER OFFICE COMPLEX, 4 FT (1.22M) EAST OF THE R/W FENCE AND 10 FT (3.05M) EAST OF THE BACK OF PARKING LOT CURB. ELEV EST. BY DIGITAL LEVEL RUN FROM NGS BM R 26 DURING JOB 090646 BY CREW S5101 IN MAY 2022.			

Location Description
TO REACH FROM THE INTERSECTION OF INTERSTATE 49 AND US HWY 62 AND STATE HWY 102 (EXIT 86) IN BENTONVILLE, BENTON COUNTY ARKANSAS, TRAVEL SOUTH ALOUNG INTERSTATE 49 FOR 0.46 MILES TO THE STATION ON THE RIGHT. THE STATION IS 283 FEET(86.26M)WEST OF THE CL OF INTERSTATE 49 NEAR THE TOP OF THE EMBANKMENT. THE STATION IS A STANDARD 2 1/2 INCH ALUMINUM ARDOT GPS CAP STAMPED 040108, 2022, SET JUST BELOW THE GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH.

AZ Mark Station	040108A
Geodetic Azimuth	
Grid Azimuth	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040108A-1	Date Monumented 5/9/2022	Monumented By AHTD (S5101)	County Benton	Route I - 49	Job Number: 090646
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	226,580.0314 0.0016
Easting (M)	204,520.0914 0.0017
Elevation (M)*	403.278 0.0046
Northing (SFT)	743,371.3197
Easting (SFT)	670,996.3332
Elevation (SFT)*	1,323.089

Convergence Angle	-1	16	2.5726987
Scale Factor	1.000026577		
Elevation Adjust. Factor	0.9999367165		
Combined Adjust. Factor	0.9999632918		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST BRIDGE CORNER	13	3.35	11.0
MK # 2	SOUTH END OF BRIDGE ABUTTMENT	302	1.22	4.0
MK # 3	NORTHEAST CORNER OD DROP INLET	234	7.31	24.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> JUST OFF THE SOUTHEAST CORNER OF THE NORTH BOUND BRIDGE AT EXIT 86, LOG MILE 540-5 85.8 ELEV EST. BY DIGITAL LEVEL RUN FROM NGS BM R 26 DURING JOB 090646 BY CREW S5101 IN MAY 2022. </td> </tr> </table>	Comments	JUST OFF THE SOUTHEAST CORNER OF THE NORTH BOUND BRIDGE AT EXIT 86, LOG MILE 540-5 85.8 ELEV EST. BY DIGITAL LEVEL RUN FROM NGS BM R 26 DURING JOB 090646 BY CREW S5101 IN MAY 2022.
Comments			
JUST OFF THE SOUTHEAST CORNER OF THE NORTH BOUND BRIDGE AT EXIT 86, LOG MILE 540-5 85.8 ELEV EST. BY DIGITAL LEVEL RUN FROM NGS BM R 26 DURING JOB 090646 BY CREW S5101 IN MAY 2022.			

Location Description
AT THE INTERSECTION OF INTERSTATE 49 AND US HWY 62 AND STATE HWY 102 (EXIT 86) IN BENTONVILLE, BENTON COUNTY ARKANSAS, THE STATION IS 73 FEET EAST OF THE CL OF INTERSTATE 49 ON THE TOP OF THE EMBANKMENT NEAR THE SOUTHEAST CORNER OF THE NORTH BOUND BRIDGE. THE STATION IS A STANDARD 2 1/2 INCH ALUMINUM ARDOT GPS CAP STAMPED 040108A 2022, SET JUST BELOW THE GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH.

AZ Mark Station	40108
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040109-1	Date Monumented 5/10/2022	Monumented By AHTD (S5101)	County Benton	Route 71B	Job Number: 090646
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	225,677.0562 0.0017
Easting (M)	201,566.7660 0.0017
Elevation (M)*	396.215 0.0024
Northing (SFT)	740,408.8085
Easting (SFT)	661,306.9648
Elevation (SFT)*	1,299.915

Convergence Angle	-1 17 11.0082957
Scale Factor	1.000024535
Elevation Adjust. Factor	0.9999378248
Combined Adjust. Factor	0.9999623583

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
THE INTERSECTION OF US HIGHWAY 71B AND STATE HWY 102 IN BENTONVILLE, BENTON COUNTY ARKANSAS, THAVEL SOUTH ALOUNG STATE HWY 71B 0.4 MILES TO THE STATION ON THE LEFT. THE STATION IS 42 FEET (12.80) EAST OF THE CL OF STATE HIGHWAY 71B . THE STATION IS A STANDARD 2 1/2 INCH ALUMINUM ARDOT GPS CAP STAMPED 040109, 2022 SET JUST BELOW THE GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH.	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	0	35.05	115.0
MK # 2	COMBINATION POLE	176	25.60	84.0
MK # 3	LIGHT POLE	79	25.91	85.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <div style="border: 1px solid black; height: 20px; width: 150px;"></div> Ref Mon # 2 <div style="border: 1px solid black; height: 20px; width: 150px;"></div> Ref Mon # 3 <div style="border: 1px solid black; height: 20px; width: 150px;"></div>	Comments 40 FT (12.19M) SOUTH OF THE CENTERLINE OF THE NORTH ENTRANCE TO KIMBERLY PLAZA (STRIP MALL), 5 FT (1.52M) EAST OF THE BACK OF SIDEWALK, 11 FT (3.35M) WEST OF THE BACK OF PARKING LOT CURB. ELEV EST. BY DIGITAL LEVEL RUN FROM NGS BM R 26 DURING JOB 090646 BY CREW S5101 IN MAY 2022.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040109A-1	Date Monumented 5/10/2022	Monumented By AHTD (S5101)	County Benton	Route 71B	Job Number: 090646
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	226,400.6340	0.0016	
Easting (M)	201,579.0898	0.0017	
Elevation (M)*	394.557	0.0059	
Northing (SFT)	742,782.7467		
Easting (SFT)	661,347.3971		
Elevation (SFT)*	1,294.474		

Convergence Angle	-1	17	11.0998610
Scale Factor	1.000026058		
Elevation Adjust. Factor	0.9999380851		
Combined Adjust. Factor	0.9999641414		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	215	8.53	28.0
MK # 2	POWER POLE	140	21.34	70.0
MK # 3	GAS METER	64	18.29	60.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>17 FT (5.18M) SOUTH OF THE BACK OF SIDEWALK. ELEV EST. BY DIGITAL LEVEL RUN FROM NGS BM R 26 DURING JOB 090646 BY CREW S5101 IN MAY 2022.</td> </tr> </table>	Comments	17 FT (5.18M) SOUTH OF THE BACK OF SIDEWALK. ELEV EST. BY DIGITAL LEVEL RUN FROM NGS BM R 26 DURING JOB 090646 BY CREW S5101 IN MAY 2022.
Comments			
17 FT (5.18M) SOUTH OF THE BACK OF SIDEWALK. ELEV EST. BY DIGITAL LEVEL RUN FROM NGS BM R 26 DURING JOB 090646 BY CREW S5101 IN MAY 2022.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180013 RESET	5/28/2022	ARDOT	CRITTENDEN	70	110738

Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	91,647.5152	0.0010			
Easting (M)	553,096.9572	0.0010			
Elevation (M)*	63.959				
Northing (SFT)	300,680.2228				
Easting (SFT)	1,814,618.9337				
Elevation (SFT)*	209.839				

Convergence Angle	0	58	39.8235465
Scale Factor	0.999964785		
Elevation Adjust. Factor	0.9999899629		
Combined Adjust. Factor	0.9999547482		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NW BRIDGE CORNER	302	4.05	13.3
MK # 2	W END OF GUARDRAIL	84	19.40	63.6
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180029	Date Monumented 5/28/2022	Monumented By ARDOT	County CRITTENDEN	Route I-40	Job Number: 110738
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	90,582.6112	0.0020			
Easting (M)	543,297.4013	0.0020			
Elevation (M)*	63.238				
Northing (SFT)	297,186.4502				
Easting (SFT)	1,782,468.2241				
Elevation (SFT)*	207.474				

Convergence Angle	0	54	54.1724353		
Scale Factor	0.999965869				
Elevation Adjust. Factor	0.9999900760				
Combined Adjust. Factor	0.9999559453				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	WOODEN POST WITH TURNBUCKLE	5	9.10	29.9	AZ Mark Station 180029A
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 ARJB Ref Mon # 2 AROC Ref Mon # 3 ARWM, ARWY	Comments ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER Bms X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180029A	Date Monumented 5/28/2022	Monumented By ARDOT	County CRITTENDEN	Route I-40	Job Number: 110738
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	90,341.5387 0.0020
Easting (M)	542,892.2468 0.0020
Elevation (M)*	63.079
Northing (SFT)	296,395.5316
Easting (SFT)	1,781,138.9797
Elevation (SFT)*	206.950

Convergence Angle	0 54 44.7719282
Scale Factor	0.999966154
Elevation Adjust. Factor	0.9999901010
Combined Adjust. Factor	0.9999562554

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
	Description	Azimuth	Distance
			Meters Feet
MK # 1	WOODEN POST FOR BARRIER	313	8.80 28.9
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER Bms X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738
Ref Mon # 2 AROC	
Ref Mon # 3 ARWM, ARWY	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 8 14.6166828
Longitude	90 25 55.0836048
Ellipsoid Height (M):	35.897 0.0050
Geoid Height (M):	-27.169 0.0050

Location Description
<p>TO REACH THE STATION FROM THE JCT. OF HWY 70 AND HWY 79 NEAR JENNETTE, HEAD NORTH ON HWY 79 FOR 0.35 MILES TO THE I-40 FRONTAGE RD. HEAD WEST/LEFT ON THE FRONTAGE RD. FOR 2.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS 14.7FT N OF THE CL OF I-40 FRONTAGE ROAD. THE STATION MARK IS A 2 1/2" CAP STAMPED "180029A 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180030	Date Monumented 5/28/2022	Monumented By ARDOT	County CRITTENDEN	Route 79	Job Number: 110738
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	92,143.4428	0.0010			
Easting (M)	545,751.6523	0.0020			
Elevation (M)*	62.576				
Northing (SFT)	302,307.2786				
Easting (SFT)	1,790,520.2126				
Elevation (SFT)*	205.301				

Convergence Angle	0	55	51.1647052
Scale Factor	0.999964054		
Elevation Adjust. Factor	0.9999901799		
Combined Adjust. Factor	0.9999542343		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARJB	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER Bms X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738
Ref Mon # 2: AROC	
Ref Mon # 3: ARWM, ARWY	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 9 11.5886700
Longitude	90 24 0.9868932
Ellipsoid Height (M):	35.355 0.0040
Geoid Height (M):	-27.200 0.0040

Location Description
<p>TO REACH THE STATION MARK FROM THE JCT. OF HWY 70 AND HWY 79 NEAR JENNETE, HEAD NORTH ON HWY 79 FOR 0.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS 33.9FT E OF THE EP OF HWY 79, 64.0FT N OF EP OF I-40 W BOUND OFF RAMP, AND 91.5FT S OF THE EP OF HWY 218 THE STATION MARK IS A 2 1/2" CAP STAMPED "180030 2022" ON TOP OF A 4" REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180030A	Date Monumented 5/28/2022	Monumented By ARDOT	County CRITTENDEN	Route 79	Job Number: 110738
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	92,601.4954	0.0010			
Easting (M)	545,740.7745	0.0020			
Elevation (M)*	62.986				
Northing (SFT)	303,810.0728				
Easting (SFT)	1,790,484.5243				
Elevation (SFT)*	206.647				

Convergence Angle	0	55	51.0857320
Scale Factor	0.999963518		
Elevation Adjust. Factor	0.9999901155		
Combined Adjust. Factor	0.9999536339		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JCT. OF HWY 70 AND HWY 79 NEAR JENNETE, HEAD NORTH ON HWY 79/BINGS STORE RD FOR 0.6 MILES TO THE STAION ON THE RIGHT. THE STATION IS 13.3FT E OF THE CL OF HWY 79. THE STATION MARK IS A 2 1/2" CAP STAMPED "180030A 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					180030
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARJB	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER Bms X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738
Ref Mon # 2: AROC	
Ref Mon # 3: ARWM, ARWY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180031	Date Monumented 5/28/2022	Monumented By ARDOT	County CRITTENDEN	Route NEAL R	Job Number: 110738
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	91,986.6130	0.0010	
Easting (M)	549,095.3027	0.0010	
Elevation (M)*	63.955		
Northing (SFT)	301,792.7462		
Easting (SFT)	1,801,490.1723		
Elevation (SFT)*	209.825		

Convergence Angle	0	57	7.9689764
Scale Factor	0.999964303		
Elevation Adjust. Factor	0.9999899635		
Combined Adjust. Factor	0.9999542669		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JCT OF HWY 70 AND O'NEAL RD, HEAD NORTH ON O'NEAL RD. FOR 0.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS 46FT E OF THE CL OF COUNTY RD. 381, AND 23.3FT S OF THE CL OF THE I-40 FRONTAGE ROAD. THE STATION MARK IS A 2 1/2" CAP STAMPED "180031 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1					180031A	
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARJB	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738
Ref Mon # 2: AROC	
Ref Mon # 3: ARWM, ARWY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180031A	Date Monumented 5/28/2022	Monumented By ARDOT	County CRITTENDEN	Route NEAL R	Job Number: 110738
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	92,440.3177	0.0010	
Easting (M)	549,075.4195	0.0010	
Elevation (M)*	63.170		
Northing (SFT)	303,281.2757		
Easting (SFT)	1,801,424.9388		
Elevation (SFT)*	207.249		

Convergence Angle	0	57	7.6852433
Scale Factor	0.999963770		
Elevation Adjust. Factor	0.9999900867		
Combined Adjust. Factor	0.9999538571		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	25	6.70	22.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARJB	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER Bms X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738
Ref Mon # 2: AROC	
Ref Mon # 3: ARWM, ARWY	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 9 19.4487408
Longitude	90 21 49.4855136
Ellipsoid Height (M):	35.929 0.0040
Geoid Height (M):	-27.222 0.0040

Location Description
<p>TO REACH THE STATION MARK FROM THE JCT OF HWY 70 AND O'NEAL RD, HEAD NORTH ON O'NEAL RD. FOR 0.5 MILES TO THE STATION ON THE LEFT. THE STATION IS 20.9FT W OF THE CL OF COUNTY RD. 381, AND 40.8FT N OF THE CENTER OF A GRAVEL FIELD ROAD. THE STATION MARK IS A 2 1/2" CAP STAMPED "180031A 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180032	Date Monumented 5/28/2022	Monumented By ARDOT	County CRITTENDEN	Route 147	Job Number: 110738
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	91,798.3618	0.0010			
Easting (M)	555,555.7898	0.0010			
Elevation (M)*	64.722				
Northing (SFT)	301,175.1253				
Easting (SFT)	1,822,685.9537				
Elevation (SFT)*	212.343				

Convergence Angle	0	59	36.4029953
Scale Factor	0.999964656		
Elevation Adjust. Factor	0.9999898431		
Combined Adjust. Factor	0.9999544994		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARJB	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER Bms X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738
Ref Mon # 2: AROC	
Ref Mon # 3: ARWM, ARWY	

Vertical Determined By: 3rd Order - Digital Levels	Elevation Datum: NAVD 88
Geoid Datum: Geoid 18	Latitude 35 8 55.0499784
Longitude 90 17 33.9124344	Ellipsoid Height (M): 37.463 0.0040
Geoid Height (M): -27.256 0.0040	

Location Description
TO REACH THE STATION MARK FROM THE JCT OF HWY 70 AND HWY 147 IN LEHI, HEAD NORTH ON HWY 147 FOR 0.1 MILES TO THE STAION ON THE LEFT. THE STATION IS IN THE MIDDLE OF A GRAVEL ISLAND. THE STATION IS 29FT E OF THE BACK OF THE CURB OF SOUTHBOUND 147, AND 35.1FT W OF THE BACK OF THE CURB OF NORTHBOUND 147. THE STATION MARK IS A 2 1/2" CAP STAMPED "180032 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180032A	Date Monumented 5/28/2022	Monumented By ARDOT	County CRITTENDEN	Route 147	Job Number: 110738
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	92,283.1137	0.0010			
Easting (M)	555,565.4056	0.0020			
Elevation (M)*	63.699				
Northing (SFT)	302,765.5155				
Easting (SFT)	1,822,717.5015				
Elevation (SFT)*	208.987				

Convergence Angle	0	59	36.8172744
Scale Factor	0.999964083		
Elevation Adjust. Factor	0.9999900036		
Combined Adjust. Factor	0.9999540870		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	179	3.00	9.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738
Ref Mon # 2 AROC	
Ref Mon # 3 ARWM, ARWY	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 9 10.7724780
Longitude	90 17 33.2004912
Ellipsoid Height (M):	36.435 0.0040
Geoid Height (M):	-27.260 0.0040

Location Description
<p>TO REACH THE STATION MARK FROM THE JCT OF HWY 70 AND HWY 147 IN LEHI, HEAD NORTH ON HWY 147 FOR 0.4 MILES TO THE STAION ON THE RIGHT. THE STATION IS 42.9FT W OF THE CL OF HWY 147. THE STATION MARK IS A 2 1/2" CAP STAMPED "180032A 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.</p>

AZ Mark Station	180032
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180033	Date Monumented 5/28/2022	Monumented By ARDOT	County CRITTENDEN	Route LEGE BL	Job Number: 110738
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	91,655.9245	0.0010			
Easting (M)	561,791.4088	0.0010			
Elevation (M)*	64.449				
Northing (SFT)	300,707.8123				
Easting (SFT)	1,843,143.9804				
Elevation (SFT)*	211.448				

Convergence Angle	1	1	59.6773765
Scale Factor	0.999964957		
Elevation Adjust. Factor	0.9999898859		
Combined Adjust. Factor	0.9999548433		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	STORM SEWER MANHOLE		111	9.50	31.2
MK # 2	ANTENNA POLE WITH BM Y356		189	9.80	32.2
MK # 3	BRICK FENCE CORNER		304	12.00	39.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB Ref Mon # 2 AROC Ref Mon # 3 ARWM, ARWY	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738

Vertical Determined By: 3rd Order - Digital Levels

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 35 8 46.8500280

Longitude 90 13 27.6938472

Ellipsoid Height (M): 37.143 0.0030

Geoid Height (M): -27.291 0.0030

Location Description

TO REACH THE STATION MARK FROM THE JCT. OF HWY 70 AND HWY 77 IN WEST MEMPHIS HEAD WEST ON HWY 70 FOR 2.2 MILES TO THE JCT OF HWY 70 AND S AIRPORT RD. THE STATION WILL BE ON THE LEFT. THE STATION IS 34.0FT E OF THE EP OF S COLLEGE BLVD, AND 81.6FT S OF THE EP OF HWY 70. THE STATION MARK IS A 2 1/2" CAP STAMPED "180033 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650050A	Date Monumented 11/22/2021	Monumented By ARDOT	County Sebastian	Route 22	Job Number: 040888
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	117,272.7211	0.0010			
Easting (M)	183,878.7457	0.0010			
Elevation (M)*					
Northing (SFT)	384,752.2525				
Easting (SFT)	603,275.5182				
Elevation (SFT)*					

Convergence Angle	-1	23	2.5519672
Scale Factor	0.999943093		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Powerpole	321	10.15	33.3
MK # 2	Chuck Fawcett Sign	253	6.10	20.0
MK # 3	Northwest corner of building	185	24.60	80.7

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 35 22 0.7454244

Longitude 94 22 42.5699148

Ellipsoid Height (M): 117.652 0.0030

Geoid Height (M): -30.141 0.0030

Location Description

To reach from the junction of Hwy. 22 and Hwy 255 in Fort Smith. Go West on Hwy 22 for 2.7 miles to the station on the Left. The station is 34.5 ft. South of the center of Hwy 22, 41.6 ft. north of center of south P st, 70.7 ft. Northeast of STS manhole. The station Mark is a 2 1/2 in cap stamped "650050A 2021" set ontop of a 5/8 in. by 4ft rebar driven 0.10 in. below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650051	Date Monumented 11/22/2021	Monumented By ARDOT	County Sebastian	Route 22	Job Number: 040888
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	114,970.3720	0.0010			
Easting (M)	186,856.4494	0.0010			
Elevation (M)*					
Northing (SFT)	377,198.6288				
Easting (SFT)	613,044.8677				
Elevation (SFT)*					

Convergence Angle	-1	21	52.6648913
Scale Factor	0.999944477		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Powerpole	345	14.63	48.0	
MK # 2	Powerpole	235	8.41	27.6	
MK # 3	Lightpole	112	17.31	56.8	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 100px;"> Comments </div>
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Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	20	48.3738504
Longitude	94	20	42.4682124
Ellipsoid Height (M):	99.441	0.0020	
Geoid Height (M):	-30.179	0.0020	

Location Description
To reach from the junction of Hwy 22 and Hwy 255 in Fort Smith. Go West on Hwy 22 for 0.5 miles to S. 79th St. Go South/Left on S 79th St for 0.2 miles the sthe station on the left. The station is 38.8 ft. East of center of S 79th St, 16.0 ft. North of Mercy Clinic sign, and 9.9 ft. West of the back of curb. The station mark is a 2 1/2 in. cap stamped "650051 2021" set ontop of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

AZ Mark Station	650051A
Geodetic Azimuth	
Grid Azimuth	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650051A	Date Monumented 11/22/2021	Monumented By ARDOT	County Sebastian	Route 22	Job Number: 040888
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	115,495.3582 0.0010
Easting (M)	186,871.9304 0.0010
Elevation (M)*	

Northing (SFT)	378,921.0210	
Easting (SFT)	613,095.6583	
Elevation (SFT)*		

Convergence Angle	-1	21	52.5963461
Scale Factor	0.999944140		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

To reach from the junction of Hwy 22 and Hwy 255 in Fort Smith. Go West on Hwy 22 for 0.5 miles to S. 79th St. Go North/Right on S 79th St for 0.1 miles the sthe station on the Right. The station is 25.0 ft. East of center of S 79th St, 14.0 ft. Southwest of a firehydrant, and 47.7 ft. Northwest of a storm sewer manhole. The station mark is a 2 1/2 in. cap stamped "650051A 2021" set ontop of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Firehydrant	15	4.27	14.0
MK # 2	Lightpole	200	25.51	83.7
MK # 3	Lightpole	99	30.79	101.0

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center; margin: 0;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020037	Date Monumented 12/14/2021	Monumented By ARDOT	County Ashley	Route 82	Job Number: 020771
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	466,357.9173	0.0010	
Easting (M)	425,149.3644	0.0010	
Elevation (M)*			
Northing (SFT)	1,530,042.6003		
Easting (SFT)	1,394,844.2064		
Elevation (SFT)*			

Convergence Angle	0	9	3.8554910
Scale Factor	1.000008032		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Power Pole	354	3.41	11.2	020037A
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020037A	Date Monumented 12/14/2021	Monumented By ARDOT	County Ashley	Route 82	Job Number: 020771
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	465,924.6083	0.0010	
Easting (M)	425,141.9360	0.0010	
Elevation (M)*			
Northing (SFT)	1,528,620.9857		
Easting (SFT)	1,394,819.8350		
Elevation (SFT)*			

Convergence Angle	0	9	3.6701537
Scale Factor	1.000008942		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description				
<p>To Reach from the intersection of hwy 82 and hwy 160 go west for 8.5 miles to county road 68. Go northwest for 0.3 miles to county road 128. Point is in the northwest corner. 34.5ft north of the CL of county road 68 and 36.5 ft west of the CL county road 128. The station mark is a 2 1/2 in cap stamped "020037A 2021" set on top of a 4ft rebar driven 0.10 in. below the surface.</p>				

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	Power Pole	127	31.30	102.7		020037
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020038	Date Monumented 12/14/2021	Monumented By ARDOT	County Ashley	Route 82	Job Number: 020771
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	467,928.9406 0.0010
Easting (M)	428,770.0763 0.0010
Elevation (M)*	

Northing (SFT)	1,535,196.8660	
Easting (SFT)	1,406,723.1587	
Elevation (SFT)*		

Convergence Angle	0	10	22.2555014
Scale Factor	1.000004792		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

To reach from the Junction of hwy 82 and hwy 160. Go West on hwy 82 for 6.45 miles to county road 120. Go north on 120 for 0.3 miles to the station on the left. The mark is 25.3 ft west of the CL county road 120. The station mark is a 2 1/2 in. cap stamped "020038 2021" set ontop of a 4ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	354	2.44	8.0
MK # 2				
MK # 3				

AZ Mark Station	020038A
Geodetic Azimuth	
Grid Azimuth	

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<div style="border: 1px solid black; height: 150px; margin: 5px 0;"></div> <p style="text-align: center; margin: 0;">Comments</p>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020038A	Date Monumented 12/14/2021	Monumented By ARDOT	County Ashley	Route 82	Job Number: 020771
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	468,357.3672	0.0010	
Easting (M)	428,770.4237	0.0010	
Elevation (M)*			
Northing (SFT)	1,536,602.4622		
Easting (SFT)	1,406,724.2984		
Elevation (SFT)*			

Convergence Angle	0	10	22.2909694
Scale Factor	1.000003913		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Power Pole	333	2.23	7.3	020038
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020039	Date Monumented 12/14/2021	Monumented By ARDOT	County Ashley	Route 82	Job Number: 020771
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	467,408.1160	0.0010	
Easting (M)	431,201.4441	0.0010	
Elevation (M)*			
Northing (SFT)	1,533,488.1272		
Easting (SFT)	1,414,700.0712		
Elevation (SFT)*			

Convergence Angle	0	11	14.8052860
Scale Factor	1.000005882		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Power Pole	8	25.30	83.0	020039A
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020039A	Date Monumented 12/14/2021	Monumented By ARDOT	County Ashley	Route 82	Job Number: 020771
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	466,881.2204	0.0010	
Easting (M)	431,187.9508	0.0010	
Elevation (M)*			
Northing (SFT)	1,531,759.4706		
Easting (SFT)	1,414,655.8019		
Elevation (SFT)*			

Convergence Angle	0	11	14.4762027
Scale Factor	1.000006976		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Power Pole	128	22.50	73.8	020039
MK # 2	18" CMP	144	2.01	6.6	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020040	Date Monumented 12/14/2021	Monumented By ARDOT	County Ashley	Route 82	Job Number: 020771
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	468,384.9480	0.0010			
Easting (M)	432,693.1830	0.0010			
Elevation (M)*					
Northing (SFT)	1,536,692.9502				
Easting (SFT)	1,419,594.2179				
Elevation (SFT)*					

Convergence Angle	0	11	47.1398617
Scale Factor	1.000003882		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach from the junction of hwy 82 and hwy 160 go west on 160 for 3.8 miles to count road 64. Go south on county road 64 for 0.4 miles to the station on the left. The station is 27.0 ft. east of the CL of county road 64. The station mark is a 2 1/2 in. cap stamped "020040 2021" set atop of a 4 ft rebar driven 0.10 in. below the surface.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						020040A
MK # 2						
MK # 3						

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 020040A	Date Monumented 12/14/2021	Monumented By ARDOT	County Ashley	Route 82	Job Number: 020771
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	468,816.6833 0.0010
Easting (M)	432,686.3387 0.0010
Elevation (M)*	
Northing (SFT)	1,538,109.4018
Easting (SFT)	1,419,571.7629
Elevation (SFT)*	

Convergence Angle	0 11 47.0238325
Scale Factor	1.000003001
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	24" Oak Tree	184	24.66	80.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 150px;"></td> </tr> </table>	Comments	
Comments			

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	Geoid 18
Latitude	33 17 11.7992508
Longitude	91 38 56.7596976
Ellipsoid Height (M):	30.300
Geoid Height (M):	-25.812

Location Description
To reach from the junction of hwy 82 and hwy 160 go west on 160 for 3.8 miles to count road 64. Go south on county road 64 for 0.15 miles to the station on the left. The station is 26.5 ft. east of the CL of county road 64. The station mark is a 2 1/2 in. cap stamped "020040A 2021" set atop of a 4ft. rebar driven 0.10 in. below the surface.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020041	Date Monumented 12/14/2021	Monumented By ARDOT	County Ashley	Route 82	Job Number: 020772
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	467,334.6313	0.0010	
Easting (M)	438,374.9375	0.0010	
Elevation (M)*			
Northing (SFT)	1,533,247.0362		
Easting (SFT)	1,438,235.1074		
Elevation (SFT)*			

Convergence Angle	0	13	49.9411959
Scale Factor	1.000006088		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	020041A
			Meters	Feet		
MK # 1					Geodetic Azimuth	
MK # 2						
MK # 3						
					Grid Azimuth	

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; height: 150px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 150px;"></div>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020041A	Date Monumented 12/14/2021	Monumented By ARDOT	County Ashley	Route 82	Job Number: 020772
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	467,725.7278	0.0010	
Easting (M)	438,381.9159	0.0010	
Elevation (M)*			
Northing (SFT)	1,534,530.1586		
Easting (SFT)	1,438,258.0024		
Elevation (SFT)*			

Convergence Angle	0	13	50.1261585
Scale Factor	1.000005280		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach from the junction of hwy 82 and hwy 160 go south on hwy 160 for 0.6 miles to the station on the left. The station is 23.7 ft. east of the CL hwy 160. The station mark is a 2 1/2in. Cap stamped "020041A 2021" set ontop of a 4ft rebar driven 0.10 in. below the surface.</p>			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1						
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020042	Date Monumented 12/14/2021	Monumented By ARDOT	County Ashley	Route 82	Job Number: 020772
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	471,081.7335	0.0010			
Easting (M)	441,594.5016	0.0010			
Elevation (M)*					
Northing (SFT)	1,545,540.6540				
Easting (SFT)	1,448,797.9607				
Elevation (SFT)*					

Convergence Angle	0	14	59.9239657
Scale Factor	0.999998522		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fence Corner	313	2.65	8.7
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 020042A	Date Monumented 12/14/2021	Monumented By ARDOT	County Ashley	Route 82	Job Number: 020772
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	470,790.3092	0.0010	
Easting (M)	441,587.6695	0.0010	
Elevation (M)*			
Northing (SFT)	1,544,584.5394		
Easting (SFT)	1,448,775.5457		
Elevation (SFT)*			

Convergence Angle	0	14	59.7486484
Scale Factor	0.999999100		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	North Gate Post	252	17.95	58.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	Geoid 18
Latitude	33 18 14.7349476
Longitude	91 33 12.4180452
Ellipsoid Height (M):	12.286
Geoid Height (M):	-25.893

Location Description
<p>To reach from the junction of hwy 82 and hwy 160. Go east on hwy 82 for 2.3 miles to county road 151 "Lake Grampus". Go north on 151 for 0.1 miles to the station on the left. The station is 28.0 ft. west of the cl county road 151 and 67.3 ft north of a field entrance. The station mark is a 2 1/2in. cap stamped "020042A 2021" set ontop of a 4ft. rebar driven 0.10 in. below the surface.</p>

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470026	Date Monumented 5/3/2022	Monumented By ARDOT	County Mississippi	Route 55	Job Number: A00031
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	135,748.2204	0.0010			
Easting (M)	566,643.3670	0.0010			
Elevation (M)*					
Northing (SFT)	445,367.2864				
Easting (SFT)	1,859,062.4466				
Elevation (SFT)*					

Convergence Angle	1	4	10.1208568
Scale Factor	0.999936194		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fence T-Post	281	1.31	4.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ORTHOMETRIC HT. BASED ON CONSTRAINTS ON CORS SITES ARJB, ARPG, ARWM & ARWY
Ref Mon # 2 ARPG	
Ref Mon # 3 ARWM, ARWY	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 32 34.5015348
Longitude	90 9 43.5253032
Ellipsoid Height (M):	44.474 0.0050
Geoid Height (M):	-27.697 0.0050

Location Description
To reach from the Junction of I55 and hwy 181 go east for 0.2 miles the the head north on s county rd 251 for 0.5 miles to the station on the right. The station is 15.1 ft. east of the centeline of S co. rd. 251. 32.7 ft. SE of the center of a gravel field entrance, and 4.3 ft. W of a metal fence T-post. the station mark is a 2 1/2 in. cap stamped "470026 2022" set ontop of a 5/8 in. by 4ft rebar driven 0.10 in. below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470026A	Date Monumented 5/3/2022	Monumented By ARDOT	County Mississippi	Route 55	Job Number: A00031
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	135,373.3993 0.0010
Easting (M)	566,445.4716 0.0010
Elevation (M)*	
Northing (SFT)	444,137.5609
Easting (SFT)	1,858,413.1847
Elevation (SFT)*	

Convergence Angle	1 4 5.3883249
Scale Factor	0.999936238
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	Metal Fence Cor	166	1.10 3.6
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	STATIC DERIVED ORTHOMETRIC HT. BASED ON CONSTRAINTS ON CORS SITES ARJB, ARPG, ARWM & ARWY
Ref Mon # 2 ARPG	
Ref Mon # 3 ARWM, ARWY	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 32 22.4608776
Longitude	90 9 51.6582108
Ellipsoid Height (M):	43.214 0.0050
Geoid Height (M):	-27.695 0.0050

Location Description
<p>To reach from the Junction of I55 and hwy 181 go east for 0.2 miles the the head north on s county rd 251 for 0.2 miles to the station on the left. The station is 59.0 ft. nw of the centerline of S county Rd 251, 59.8 ft. W of the cenerline of the I-55 Southbound off ramp, and 3.6 ft. SE of a metal fene corner. The station mark is a 2 1/2 in. cap stamped "470026A 2022" set ontop of a 5/8 in. by 4ft. rebar driven 0.10 in. below the surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560016	Date Monumented 5/9/2022	Monumented By ARDOT	County Poinsett	Route N/A	Job Number: BR5614
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	142,894.9659 0.0020
Easting (M)	512,552.0412 0.0020
Elevation (M)*	
Northing (SFT)	468,814.5673
Easting (SFT)	1,681,597.8218
Elevation (SFT)*	

Convergence Angle	0 43 22.6450222
Scale Factor	0.999936079
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Field Road		7.70	25.3
MK # 2	Field Road		6.60	21.7
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	
Ref Mon # 2 ARJB	
Ref Mon # 3 ARWM, ARWY	

Location Description	
To Reach from the Jct. of Hwy 1 and Raybourn Rd. near Greenfield, go West on Raybourn Rd. for 1.8 miles to Evans Ln. Go South/Left on Evans Ln. for 1.4 miles to a gravel field road. Go West/Right for 0.4 miles to the station on the right. The station is 25.4ft South of a gravel field road, and 21.8 ft West of another gravel field road. The station mark is a 2 1/2in cap stamped "560016 2022" set ontop of a 5/8in by 4ft. rebar driven 0.10 in. below the surface	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560016A	Date Monumented 5/9/2022	Monumented By ARDOT	County Poinsett	Route N/A	Job Number: BR5614
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	142,912.0381	0.0020			
Easting (M)	512,930.2571	0.0020			
Elevation (M)*					
Northing (SFT)	468,870.5783				
Easting (SFT)	1,682,838.6852				
Elevation (SFT)*					

Convergence Angle	0	43	31.3949232
Scale Factor	0.999936080		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	center of concrete bridge	324	6.85	22.5	560016
MK # 2	metal culvert	295	7.00	23.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	
Ref Mon # 2 ARJB	
Ref Mon # 3 ARWM, ARWY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200016	Date Monumented 5/2/2023	Monumented By ARDOT	County DALLAS	Route 167	Job Number: 070527
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	535,552.2834	0.0020			
Easting (M)	361,758.7076	0.0010			
Elevation (M)*					
Northing (SFT)	1,757,057.7831				
Easting (SFT)	1,186,870.0265				
Elevation (SFT)*					

Convergence Angle	0	13	53.0091104
Scale Factor	0.999921712		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH FROM THE JCT. OF HWY 79 AND HWY 167 IN FORDYCE, HEAD NORTH ON HWY 167 FOR 4.2 MILES TO THE STATION ON THE LEFT. THE STATION IS IN THE MEDIAN OF THE DIVIDED HIGHWAY. THE STATION MARK IS A 2 1/2IN CAP STAMPED "200016 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					200016A
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARGS	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BM HEYS BY S5112 IN MAY 2023 FOR JOB #070527
Ref Mon # 2: ARHP	
Ref Mon # 3: ARLR, ARMO	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 200016A	Date Monumented 5/2/2023	Monumented By ARDOT	County DALLAS	Route 167	Job Number: 070527
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	535,973.4416	0.0020			
Easting (M)	361,678.7583	0.0010			
Elevation (M)*					
Northing (SFT)	1,758,439.5330				
Easting (SFT)	1,186,607.7262				
Elevation (SFT)*					

Convergence Angle	0	13	54.7877555
Scale Factor	0.999921546		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH FROM THE JCT. OF HWY 79 AND HWY 167 IN FORDYCE, HEAD NORTH ON HWY 167 FOR 4.4 MILES TO THE STATION ON THE LEFT. THE STATION IS IN THE MEDIAN OF THE DIVIDED HIGHWAY. THE STATION MARK IS A 2 1/2IN CAP STAMPED "200016A 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station 200016
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS Ref Mon # 2 ARHP Ref Mon # 3 ARLR, ARMO	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BM HEYS BY S5112 IN MAY 2023 FOR JOB #070527

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130024	Date Monumented 5/2/2023	Monumented By ARDOT	County CLEVELAND	Route 35	Job Number: 070526
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	545,231.6800	0.0010			
Easting (M)	375,026.9730	0.0010			
Elevation (M)*					
Northing (SFT)	1,788,814.2701				
Easting (SFT)	1,230,400.9939				
Elevation (SFT)*					

Convergence Angle	0	9	4.5451564
Scale Factor	0.999918990		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station 130024A
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARGS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHP</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARLR, ARMO</td> </tr> </table>	Ref Mon # 1	ARGS	Ref Mon # 2	ARHP	Ref Mon # 3	ARLR, ARMO	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARGS							
Ref Mon # 2	ARHP							
Ref Mon # 3	ARLR, ARMO							
Comments								

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130024A	Date Monumented 5/2/2023	Monumented By ARDOT	County CLEVELAND	Route 35	Job Number: 070526
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	545,265.0154	0.0010			
Easting (M)	375,381.8588	0.0010			
Elevation (M)*					
Northing (SFT)	1,788,923.6380				
Easting (SFT)	1,231,565.3151				
Elevation (SFT)*					

Convergence Angle	0	8	56.8086794
Scale Factor	0.999918985		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	RR TIE FENCE POST	177	14.10	46.3	130024
MK # 2	RR TIE FENCE POST	250	19.40	63.6	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS Ref Mon # 2 ARHP Ref Mon # 3 ARLR, ARMO	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080044	Date Monumented 5/2/2023	Monumented By ARDOT	County CARROLL	Route 412	Job Number: 090639
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	209,025.9607	0.0010	
Easting (M)	276,634.0490	0.0010	
Elevation (M)*	497.884	0.0048	
Northing (SFT)	685,779.3394		
Easting (SFT)	907,590.2091		
Elevation (SFT)*	1,633.475		

Convergence Angle	0	47	53.9801282
Scale Factor	0.999995405		
Elevation Adjust. Factor	0.9999218718		
Combined Adjust. Factor	0.9999172772		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	160	10.06	33.0
MK # 2	UTILITY MARKER (TRI COUNTY TELEPHONE CO.)	170	8.53	28.0
MK # 3	PIPE FENCE CORNER	180	11.58	38.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 ARHR Ref Mon # 3 AROZ	11 FT. (3.35 M) WEST OF THE TOP OF DITCH BANK. 1 FT. (0.30M) EAST OF A 5 STRAND BARBED WIRE FENCE. Digital levels ran from NGS 1335 by S5101 MAY 2023

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 080044A	Date Monumented 5/2/2023	Monumented By ARDOT	County CARROLL	Route 412	Job Number: 090639
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	209,482.1161 0.0010
Easting (M)	276,662.6255 0.0010
Elevation (M)*	501.946 0.0050
Northing (SFT)	687,275.9092
Easting (SFT)	907,683.9638
Elevation (SFT)*	1,646.800

Convergence Angle	0 47 53.4625171
Scale Factor	0.999996191
Elevation Adjust. Factor	0.9999212346
Combined Adjust. Factor	0.9999174259

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
<p>FROM THE INTERSECTION OF U. S. HIGHWAY 62 AND U.S. HIGHWAY 412 IN ALPENA, CARROLL COUNTY, ARKANSAS. TRAVEL SOUTHWEST ALONG U. S. HIGHWAY 412 FOR 8.3 MILES TO CARROLL COUNTY ROAD 905 ON THE RIGHT, TURN RIGHT AND CONTINUE ALONG CARROLL COUNTY ROAD 905 FOR 0.9 MILES TO THE TOP OF THE HILL AND THE STATION ON THE LEFT. THE STATION IS A STANDARD 2.5 IN. ARDOT GPS MONUMENT STAMPED 080044A, 2023 SET FLUSH WITH THE GROUND, 1.5 FT. EAST OF A CONCRETE GATE POST, ON TOP OF A 5/8 IN. REBAR 4 FT IN LENGTH.</p>	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE GATE POST	190	4.57	15.0
MK # 2	CONCRETE GATE POST	145	26.76	87.8
MK # 3	UTILITY MARKER (TRI COUNTY TELEPHONE COMPANY)	350	2.44	8.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY</p> <p>Ref Mon # 2 ARHR</p> <p>Ref Mon # 3 AROZ</p>	<p style="text-align: center;">Comments</p> <p>1.5 FT. EAST OF THE NORTHERN MOST CONCRETE GATE POST. Digital levels ran from NGS 1335 by S5101 MAY 2023</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240020	Date Monumented 5/23/2023	Monumented By ARDOT	County FRANKLIN	Route 23	Job Number: 012468
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	154,473.3855	0.0020			
Easting (M)	237,173.0096	0.0020			
Elevation (M)*	515.574				
Northing (SFT)	506,801.4323				
Easting (SFT)	778,125.1157				
Elevation (SFT)*	1,691.511				

Convergence Angle	-1	2	49.8734426
Scale Factor	0.999938424		
Elevation Adjust. Factor	0.9999190962		
Combined Adjust. Factor	0.9998575252		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	ROCK PILLAR	351	43.30	142.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARFY	ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS PUBLISHED BMs Y 92 AND Z 92 BY S5103 IN JUNE 2023 FOR SLIDE REPAIR JOB #012468
Ref Mon # 2: ARFS	
Ref Mon # 3: ARRv	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 42 44.2884816
Longitude	93 47 58.5686400
Ellipsoid Height (M):	487.196 0.0080
Geoid Height (M):	-28.378 0.0080

Location Description
TO REACH FROM THE JCT. OF HWY 23 AND HWY 215 IN CASS, HEAD NORTH ON HWY 23 FOR 2.4 MILES TO THE STATION ON THE RIGHT. THE STATION IS 23.0FT E OF THE CENTER LINE OF HWY 23, AND 42.5FT NORTH OF THE CENTER LINE OF THE DW FOR MULBERRY MOUNTAIN LODGING AND EVENTS. THE STATION MARK IS A 2 1/2IN CAP STAMPED "240020 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 240020A	Date Monumented 5/23/2023	Monumented By ARDOT	County FRANKLIN	Route 23	Job Number: 012468
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	154,140.5081	0.0020			
Easting (M)	237,035.2590	0.0020			
Elevation (M)*	499.073				
Northing (SFT)	505,709.3170				
Easting (SFT)	777,673.1789				
Elevation (SFT)*	1,637.376				

Convergence Angle	-1	2	52.9210636
Scale Factor	0.999938308		
Elevation Adjust. Factor	0.9999216853		
Combined Adjust. Factor	0.9998599981		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH FROM THE JCT. OF HWY 23 AND HWY 215 IN CASS, HEAD NORTH ON HWY 23 FOR 2.15 MILES TO THE STATION ON THE RIGHT. THE STATION IS 18.0FT E OF THE CENTER LINE OF HWY 23, 51.9FT NORTH OF THE CENTER LINE OF A GRAVEL DRIVE WAY, AND 29.5FT WEST OF A SPLIT RAIL FENCE. THE STATION MARK IS A 2 1/2IN CAP STAMPED "240020A 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY</p> <p>Ref Mon # 2 ARFS</p> <p>Ref Mon # 3 ARR V</p>	<p style="text-align: center;">Comments</p> <p>ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS PUBLISHED BMs Y 92 AND Z 92 BY S5103 IN JUNE 2023 FOR SLIDE REPAIR JOB #012468</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050414	Date Monumented 5/24/2023	Monumented By ARDOT	County BOONE	Route 62 / 412	Job Number: 090640
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	210,278.4056	0.0010	
Easting (M)	318,375.2815	0.0010	
Elevation (M)*	321.277	0.0010	
Northing (SFT)	689,888.4024		
Easting (SFT)	1,044,536.2361		
Elevation (SFT)*	1,054.055		

Convergence Angle	0	31	41.8987201
Scale Factor	0.999998421		
Elevation Adjust. Factor	0.9999495838		
Combined Adjust. Factor	0.9999480049		

SUPERCEDED CONTROL			
Horizontal Datum	NAD83(2011)		
Latitude	36	13	30.9986868
Longitude	92	54	28.4336784
Ellipsoid Height:	292.870		
Grid Northing (Meters)	210,278.4070		
Grid Easting (Meters)	318,375.2821		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	STEEL CORNER POST	7	14.63	48.0
MK # 2	UTILITY MARKER (FIBER OPTIC)	227	14.32	47.0
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARM3</td> </tr> <tr> <td>Ref Mon # 3</td> <td>P777</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARHR	Ref Mon # 2	ARM3	Ref Mon # 3	P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV BASED ON DIGITAL LEVELS FROM TBM 906 AND PN:20 IN JOB 090581 BY CREW S5101 DURING JOB 090640 IN JUNE 2023.</td> </tr> </table>	Comments	ELEV BASED ON DIGITAL LEVELS FROM TBM 906 AND PN:20 IN JOB 090581 BY CREW S5101 DURING JOB 090640 IN JUNE 2023.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARHR										
Ref Mon # 2	ARM3										
Ref Mon # 3	P777										
Comments											
ELEV BASED ON DIGITAL LEVELS FROM TBM 906 AND PN:20 IN JOB 090581 BY CREW S5101 DURING JOB 090640 IN JUNE 2023.											

Vertical Determined By: 3rd Order - Digital Levels

Elevation Datum: NAVD 88

Geoid Datum: GEOID18

Latitude 36 13 30.9986400

Longitude 92 54 28.4337000

Ellipsoid Height (M): 292.873 0.0050

Geoid Height (M): -28.392

Location Description

FROM THE INTERSECTION OF U.S. HIGHWAY 65 AND U.S. HIGHWAY 62/412 NEAR BELLFONTE, BOONE COUNTY ARKANSAS. TRAVEL EAST ALONG U.S. HIGHWAY 62/412 FOR 8.3 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 2.5" ARDOT GPS CAP STAMPED 050414, 2023, SET FLUSH WITH THE GROUND ON TOP OF A 5/8 INCH REBAR, 4 FT. IN LENGTH. THE STATION IS 45 FEET NORTHWEST OF THE CENTERLINE OF U. S. HIGHWAY 62/ 412, 39 FEET SOUTHWEST OF THE CENTER OF A GRAVEL FIELD ENTRANCE, 15 FEET SOUTHEAST OF A BARBED WIRE FENCE AND APROXIMATLY 400 FEET SOUTHWEST OF TURKEY LANE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050414A	Date Monumented 5/24/2023	Monumented By ARDOT	County BOONE	Route 62/412	Job Number: 090640
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	210,466.4485	0.0010	
Easting (M)	318,651.0550	0.0010	
Elevation (M)*	322.072	0.0010	
Northing (SFT)	690,505.3398		
Easting (SFT)	1,045,441.0029		
Elevation (SFT)*	1,056.666		

Convergence Angle	0	31	35.5136783
Scale Factor	0.999998757		
Elevation Adjust. Factor	0.9999494589		
Combined Adjust. Factor	0.9999482160		

SUPERCEDED CONTROL			
Horizontal Datum	NAD83(2011)		
Latitude	36	13	37.1815104
Longitude	92	54	17.4609216
Ellipsoid Height:	293.675		
Grid Northing (Meters)	210,466.4500		
Grid Easting (Meters)	318,651.0554		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	259	15.85	52.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR Ref Mon # 2 ARM3 Ref Mon # 3 P777	ELEV BASED ON DIGITAL LEVELS FROM TBM 906 AND PN:20 IN JOB 090581 BY CREW S5101 DURING JOB 090640 IN JUNE 2023.

Vertical Determined By: 3rd Order - Digital Levels

Elevation Datum: NAVD 88

Geoid Datum: GEOID18

Latitude 36 13 37.1814600

Longitude 92 54 17.4609360

Ellipsoid Height (M): 293.678 0.0050

Geoid Height (M): -28.394

Location Description

FROM THE INTERSECTION OF U.S. HIGHWAY 65 AND U.S. HIGHWAY 62/412 NEAR BELLFONTE, BOONE COUNTY ARKANSAS. TRAVEL EAST ALONG U.S. HIGHWAY 62/412 FOR 8.5 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 2.5" ARDOT GPS CAP STAMPED 050414A, 2023, SET FLUSH WITH THE GROUND ON TOP OF A 5/8 INCH REBAR, 4 FT. IN LENGTH. THE STATION IS 46 FEET NORTH OF THE CENTERLINE OF U. S. HIGHWAY 62/ 412, 13 FEET SOUTH OF A WOVEN WIRE FENCE AND APROXIMATLY 1100 FEET EAST OF TURKEY LANE.

AZ Mark Station	050414
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470035A	Date Monumented 12/20/2022	Monumented By ARDOT	County MISSISSIPPI	Route I-55	Job Number: 101076
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	158,715.5938 0.0010
Easting (M)	579,361.3551 0.0010
Elevation (M)*	
Northing (SFT)	520,719.4107
Easting (SFT)	1,900,788.0459
Elevation (SFT)*	

Convergence Angle	1 9 14.5668327
Scale Factor	0.999939989
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 ARWM Ref Mon # 3 ARWY, TN49	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT. </td> </tr> </table>	Comments	STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.
Comments			
STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.			

Location Description

TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 0.65 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.8FT W OF THE I-55 EP, AND 60.4 FT E OF A WEB WIRE FENCE, AND 116.0FT SE OF THE CENTER OF A HEAD WALL. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470035A 2022" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050412	Date Monumented 3/25/2020	Monumented By ARDOT	County BOONE	Route 65	Job Number: 90578
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<table style="width: 100%;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas South</td> <td></td> </tr> </table> <table style="width: 100%;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> </table> <table style="width: 100%;"> <tr> <td style="width: 50%;">Northing (M)</td> <td style="width: 25%;">#Error</td> <td style="width: 25%;"></td> </tr> <tr> <td>Easting (M)</td> <td>#Error</td> <td></td> </tr> <tr> <td>Elevation (M)*</td> <td></td> <td></td> </tr> </table> <table style="width: 100%;"> <tr> <td style="width: 50%;">Northing (SFT)</td> <td style="width: 25%;">#Type!</td> <td style="width: 25%;"></td> </tr> <tr> <td>Easting (SFT)</td> <td>#Type!</td> <td></td> </tr> <tr> <td>Elevation (SFT)*</td> <td></td> <td></td> </tr> </table> <table style="width: 100%;"> <tr> <td style="width: 50%;">Convergence Angle</td> <td style="width: 10%;">###</td> <td style="width: 10%;">###</td> <td style="width: 30%;">#Error</td> </tr> <tr> <td>Scale Factor</td> <td></td> <td></td> <td>#Error</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Combined Adjust. Factor</td> <td></td> <td></td> <td>#Type!</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;">SUPERCEDED CONTROL</div> <table style="width: 100%;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone	Zone Code	Arkansas South		Horizontal Datum		Northing (M)	#Error		Easting (M)	#Error		Elevation (M)*			Northing (SFT)	#Type!		Easting (SFT)	#Type!		Elevation (SFT)*			Convergence Angle	###	###	#Error	Scale Factor			#Error	Elevation Adjust. Factor				Combined Adjust. Factor			#Type!	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table style="width: 100%;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td style="width: 40%;"></td> </tr> <tr> <td>Elevation Datum:</td> <td></td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p style="text-align: center;">Location Description</p> <p>FROM THE INTERSECTION OF U.S. HIGHWAY 62 EAST AND U.S. HIGHWAY 65 IN BOONE COUNTY ARKANSAS. TRAVEL NORTHWEST ALONG U.S. HIGHWAY 65, 2.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 050412, DATED 2020. SET ON TOP OF A 48" REBAR, DRIVEN .3 FT BELOW THE GROUND SUFACE, 62 FEET NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65 AND 4 FEET SOUTHWEST OF WITNESS POST.</p> </div>	Vertical Determined By:		Elevation Datum:		Geoid Datum:		Latitude		Longitude		Ellipsoid Height (M):		Geoid Height (M):	
Zone	Zone Code																																																																		
Arkansas South																																																																			
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Geoid Height (M):																																																																			

Location Reference Marks				
Description			Azimuth	Distance
				Meters Feet
MK # 1	COMBINATION POLE		120	
MK # 2	FENCE		28	
MK # 3	SIGN POST		86	

AZ Mark Station	050412A
Geodetic Azimuth	
Grid Azimuth	

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> <p style="text-align: center;">Comments</p> </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050412A	Date Monumented 3/25/2020	Monumented By ARDOT	County BOONE	Route U.S. 65	Job Number: 90578
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<table style="width: 100%;"> <tr> <td style="width: 50%;">Zone</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Arkansas South</td> <td></td> </tr> <tr> <td colspan="2">Horizontal Datum</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td>Northing (M)</td> <td>#Error</td> </tr> <tr> <td>Easting (M)</td> <td>#Error</td> </tr> <tr> <td>Elevation (M)*</td> <td></td> </tr> <tr> <td>Northing (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Easting (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Elevation (SFT)*</td> <td></td> </tr> </table> <table style="width: 100%;"> <tr> <td style="width: 50%;">Convergence Angle</td> <td>###/###</td> <td>#Error</td> </tr> <tr> <td>Scale Factor</td> <td></td> <td>#Error</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td></td> <td></td> </tr> <tr> <td>Combined Adjust. Factor</td> <td></td> <td>#Type!</td> </tr> </table>	Zone	Zone Code	Arkansas South		Horizontal Datum				Northing (M)	#Error	Easting (M)	#Error	Elevation (M)*		Northing (SFT)	#Type!	Easting (SFT)	#Type!	Elevation (SFT)*		Convergence Angle	###/###	#Error	Scale Factor		#Error	Elevation Adjust. Factor			Combined Adjust. Factor		#Type!	<table style="width: 100%;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td></td> </tr> <tr> <td>Elevation Datum:</td> <td></td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">Location Description</p> <p>FROM THE INTERSECTION OF U.S. HIGHWAY 62 EAST AND U.S. HIGHWAY 65 IN BOONE COUNTY ARKANSAS. TRAVEL NORTHWEST ON U.S. HIGHWAY 65, 2.4 MILES TO THE STATION ON THE LEFT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 050412A, DATED 2020. SET ON TOP OF A 48" REBAR, DRIVEN .3 FT BELOW THE GROUND SURFACE, 40 FEET SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 65 AND 5 FEET NORTHEAST OF WITNESS POST.</p> </div>	Vertical Determined By:		Elevation Datum:		Geoid Datum:		Latitude		Longitude		Ellipsoid Height (M):		Geoid Height (M):	
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SUPERCEDED CONTROL												
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Horizontal Datum												
Latitude												
Longitude												
Ellipsoid Height:												
Grid Northing (Meters)												
Grid Easting (Meters)												

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	ROW MARKER		153		
MK # 2	HEAD WALL		300		
MK # 3	SIGN POST		287		

<table style="width: 100%;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 30%;">Ref Mon # 1</td> <td></td> </tr> <tr> <td>Ref Mon # 2</td> <td></td> </tr> <tr> <td>Ref Mon # 3</td> <td></td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1		Ref Mon # 2		Ref Mon # 3		<div style="border: 1px solid black; padding: 10px; min-height: 150px;"> <p style="text-align: center; margin-top: 0;">Comments</p> </div>
Area Reference Monuments (used for Processing)									
Ref Mon # 1									
Ref Mon # 2									
Ref Mon # 3									

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050413	Date Monumented 3/25/2020	Monumented By ARDOT	County BOONE	Route U.S. 65	Job Number: 90578
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<table style="width: 100%;"> <tr> <td style="width: 50%;">Zone Arkansas South</td> <td style="width: 50%;">Zone Code</td> </tr> <tr> <td>Horizontal Datum</td> <td></td> </tr> <tr> <td>Northing (M)</td> <td>#Error</td> </tr> <tr> <td>Easting (M)</td> <td>#Error</td> </tr> <tr> <td>Elevation (M)*</td> <td></td> </tr> <tr> <td>Northing (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Easting (SFT)</td> <td>#Type!</td> </tr> <tr> <td>Elevation (SFT)*</td> <td></td> </tr> </table> <table style="width: 100%;"> <tr> <td style="width: 50%;">Convergence Angle</td> <td>###/###</td> <td>#Error</td> </tr> <tr> <td>Scale Factor</td> <td></td> <td>#Error</td> </tr> <tr> <td>Elevation Adjust. Factor</td> <td></td> <td></td> </tr> <tr> <td>Combined Adjust. Factor</td> <td></td> <td>#Type!</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 5px;">SUPERCEDED CONTROL</div> <table style="width: 100%;"> <tr> <td style="width: 50%;">Horizontal Datum</td> <td style="width: 50%;"></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height:</td> <td></td> </tr> <tr> <td>Grid Northing (Meters)</td> <td></td> </tr> <tr> <td>Grid Easting (Meters)</td> <td></td> </tr> </table>	Zone Arkansas South	Zone Code	Horizontal Datum		Northing (M)	#Error	Easting (M)	#Error	Elevation (M)*		Northing (SFT)	#Type!	Easting (SFT)	#Type!	Elevation (SFT)*		Convergence Angle	###/###	#Error	Scale Factor		#Error	Elevation Adjust. Factor			Combined Adjust. Factor		#Type!	Horizontal Datum		Latitude		Longitude		Ellipsoid Height:		Grid Northing (Meters)		Grid Easting (Meters)		<table style="width: 100%;"> <tr> <td style="width: 60%;">Vertical Determined By:</td> <td style="width: 40%;"></td> </tr> <tr> <td>Elevation Datum:</td> <td></td> </tr> <tr> <td>Geoid Datum:</td> <td></td> </tr> <tr> <td>Latitude</td> <td></td> </tr> <tr> <td>Longitude</td> <td></td> </tr> <tr> <td>Ellipsoid Height (M):</td> <td></td> </tr> <tr> <td>Geoid Height (M):</td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center; margin: 0;">Location Description</p> <p style="margin: 5px 0 0 0;">FROM THE INTERSECTION OF U.S. HIGHWAY 43 AND U.S. HIGHWAY 65 IN BOONE COUNTY ARKANSAS. TRAVEL NORTHWEST ALONG U.S. HIGHWAY 65, .3 OF A MILE TO THE STATION ON THE RIGHT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 050413, DATED 2020. SET ON TOP OF A 48" REBAR DRIVEN .3 FEET BELOW THE GROUND SURFACE, 70 FEET NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65 AND SOUTHWEST OF WITNESS POST.</p> </div>	Vertical Determined By:		Elevation Datum:		Geoid Datum:		Latitude		Longitude		Ellipsoid Height (M):		Geoid Height (M):	
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Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE	297			AZ Mark Station 050413A
MK # 2	SIGN POST	123			Geodetic Azimuth
MK # 3	LIGHT POLE	72			Grid Azimuth

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> <p style="text-align: center; margin: 0;">Comments</p> </div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 050413A	Date Monumented 3/25/2020	Monumented By ARDOT	County BOONE	Route U.S. 65	Job Number: 90578
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Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	SIGNAL POLE		85		
MK # 2	C/L FORWARD RD		126		
MK # 3	FIRE HYDRANT		313		

Area Reference Monuments (used for Processing) Ref Mon # 1 Ref Mon # 2 Ref Mon # 3	<table style="width: 100%;"> <tr> <td style="width: 60%;">AZ Mark Station</td> <td style="width: 40%;">50413</td> </tr> <tr> <td>Geodetic Azimuth</td> <td></td> </tr> <tr> <td>Grid Azimuth</td> <td></td> </tr> </table> <div style="border: 1px solid black; height: 100px; margin-top: 10px;"></div>	AZ Mark Station	50413	Geodetic Azimuth		Grid Azimuth	
AZ Mark Station	50413						
Geodetic Azimuth							
Grid Azimuth							

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040135	Date Monumented 7/8/2021	Monumented By ARDOT	County BENTON	Route 59	Job Number: 090651
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	216,224.8211	0.0030	
Easting (M)	176,687.5625	0.0030	
Elevation (M)*			
Northing (SFT)	709,397.6006		
Easting (SFT)	579,682.4446		
Elevation (SFT)*			

Convergence Angle	-1	26	45.8364322
Scale Factor	1.000004739		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W LIGHT	5	22.60	74.1
MK # 2	GAS METER	156	23.50	77.1
MK # 3	WATER METER	41	13.10	43.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	Comments <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>
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Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	GEOID 18
Latitude	36 15 24.6965760
Longitude	94 29 6.2867040
Ellipsoid Height (M):	341.228 0.0110
Geoid Height (M):	-28.278 0.0110

Location Description
FROM THE INTERSECTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 12 IN GENTRY, BENTON COUNTY, ARKANSAS TRAVEL SOUTHWEST ALONG STATE HIGHWAY 59, 0.5 MILES TO THE STATION ON THE LEFT. THE STATION IS 43' (13.1M) EAST OF THE CENTERLINE OF STATE HIGHWAY 59 AND SET IN THE CENTER OF A GRASS ISLAND BETWEEN

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610015A	Date Monumented 1/10/2023	Monumented By AHTD (S5101)	County Randolph	Route 67	Job Number: 101140 100512
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	216,842.2083	0.0010			
Easting (M)	494,879.1848	0.0010			
Elevation (M)*	83.191				
Northing (SFT)	711,423.1451				
Easting (SFT)	1,623,616.1255				
Elevation (SFT)*	272.935				

Convergence Angle	0	36	52.3530569		
Scale Factor	1.000010250				
Elevation Adjust. Factor	0.9999869448				
Combined Adjust. Factor	0.9999971947				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>From the Intersection of US hwy 62 and US hwy 67 located in downtown Pocahontas, Randolph County Arkansas. Travel North along US hwy 67, 2.6 miles to the station on the Right. The Station is a standard 2.5 inch ARDOT aluminum GPS cap stamped 610015A, 2023, set flush with the ground on top of 5/8 inch rebar, 4 foot in length. The station is 20 feet (6.1M) South of the centerline of US Hwy 67 and 5 feet (1.52M) Southeast of the Southeast Bridge corner.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Southeast Bridge Corner		282	1.52	5.0
MK # 2	Power Pole		147	24.08	79.0
MK # 3	Telephone Handhole		1787	23.77	78.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<p>Digital level ran from NGS POINT H 41 by S5101 in JUNE of 2023 during job 101140</p>

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 610015	Date Monumented 1/10/2023	Monumented By AHTD (S5101)	County Randolph	Route 67	Job Number: 101140 100512
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	216,710.8352	0.0010			
Easting (M)	494,415.0597	0.0010			
Elevation (M)*	99.293				
Northing (SFT)	710,992.1318				
Easting (SFT)	1,622,093.4084				
Elevation (SFT)*	325.763				

Convergence Angle	0	36	41.4989132		
Scale Factor	1.000010007				
Elevation Adjust. Factor	0.9999844180				
Combined Adjust. Factor	0.9999944248				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>To reach from the Intersection of US hwy 62 and US hwy 67 located in downtown Pocahontas, Randolph County Arkansas. Travel North along US hwy 67, 2.3 miles to the station on the left. The Station is a standard 2.5 inch ARDOT aluminum GPS cap stamped 610015, 2023, set flush with the ground on top of 5/8 inch rebar, 4 foot in length. The station is 63 feet (19.2M) Northwest of the centerline of US Hwy 67 and 3 feet (.91M) Northwest of the Northwest edge of the old concrete Hwy.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Power Pole	314		10.67	35.0
MK # 2	Double Down Guy	221		7.62	25.0
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <p>Digital level ran from NGS POINT H 41 by S5101 in JUNE of 2023 during job 101140</p>
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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160046	Date Monumented 1/18/2023	Monumented By ARDOT	County CRAIGHEAD	Route 49	Job Number: 101073
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Zone Arkansas North	Zone Code 301	Vertical Determined By: 3rd Order - Digital Levels
Horizontal Datum NAD 83 (2011)		Elevation Datum: NAVD 88
Geoid Datum: Geoid 18		
Northing (M) 167,502.9571		Latitude 35 50 8.9391660
Easting (M) 520,332.9763		Longitude 90 40 4.9305468
Elevation (M)* 88.488		Ellipsoid Height (M): 60.632
		Geoid Height (M): -27.837

Northing (SFT) 549,549.2851	Easting (SFT) 1,707,125.7731	Location Description TO REACH FROM THE JCT. OF HWY 49 AND HWY 18 IN JONESBORO, HEAD NORTH ON HWY 49 FOR 1.0 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.3FT WEST OF THE BACK OF THE ASPHALT CURB OF HWY 49, AND 26.5FT SW OF THE END OF THE GUARDRAIL. THE STATION MARK IS A 2 1/2IN CAP STAMPED "160046 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.
Elevation (SFT)* 290.316		

Convergence Angle 0 46 30.2467337	Scale Factor 0.999945544
Elevation Adjust. Factor 0.9999861135	
Combined Adjust. Factor 0.9999316582	

SUPERCEDED CONTROL			
Horizontal Datum		Latitude	
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station 160046A
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM B 315 BY S5103 IN JANUARY 2023 FOR JOB #101073. ALSO CHECKED INTO NGS PUBLISHED 2ND ORDER BM C 315 BUT IT DID NOT CHECK WITH B 315 AND STATIC DERIVED ELEVATIONS MATCHED CLOSER TO B 315.
Ref Mon # 2 ARPG	
Ref Mon # 3 ARWM	

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160046A	Date Monumented 1/18/2023	Monumented By ARDOT	County CRAIGHEAD	Route 49	Job Number: 101073
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	167,907.5862 0.0010
Easting (M)	520,355.8712 0.0010
Elevation (M)*	82.643
Northing (SFT)	550,876.8057
Easting (SFT)	1,707,200.8874
Elevation (SFT)*	271.139

Convergence Angle	0 46 30.9044936
Scale Factor	0.999945824
Elevation Adjust. Factor	0.9999870307
Combined Adjust. Factor	0.9999328554

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks	
Description	Azimuth
	Distance
	Meters Feet
MK # 1 RW MARKER	4 4.60 15.1
MK # 2 POWERPOLE	33 17.90 58.7
MK # 3	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM B 315 BY S5103 IN JANUARY 2023 FOR JOB #101073. ALSO CHECKED INTO NGS PUBLISHED 2ND ORDER BM C 315 BUT IT DID NOT CHECK WITH B 315 AND STATIC DERIVED ELEVATIONS MATCHED CLOSER TO B 315.
Ref Mon # 2 ARPG	
Ref Mon # 3 ARWM	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 50 22.0569396
Longitude	90 40 3.8001792
Ellipsoid Height (M):	54.784 0.0040
Geoid Height (M):	-27.840 0.0040

Location Description
TO REACH FROM THE JCT. OF HWY 49 AND HWY 18 IN JONESBORO, HEAD NORTH ON HWY 49 FOR 1.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS 27.1FT E OF THE EP OF HWY 49, 15.0FT N OF A RW MARKER, AND 67.0FT SE OF CENTER OF A HEADWALL. THE STATION MARK IS A 2 1/2IN CAP STAMPED "160046A 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station 160047	Date Monumented 1/18/2023	Monumented By ARDOT	County CRAIGHEAD	Route REPORT F	Job Number: 101073
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	168,069.6942 0.0010
Easting (M)	521,928.3550 0.0010
Elevation (M)*	99.303

Northing (SFT)	551,408.6551		
Easting (SFT)	1,712,359.9447		
Elevation (SFT)*	325.798		

Convergence Angle	0	47	7.4154451
Scale Factor	0.999945923		
Elevation Adjust. Factor	0.9999844163		
Combined Adjust. Factor	0.9999303401		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH FROM THE JCT. OF HWY 49 AND HWY 18 IN JONESBORO, HEAD NORTH ON HWY 49 FOR 0.5 MILES TO E NETTLETON AVE. HEAD RIGHT/EAST ON E NETTLETON AVE FOR 0.3 MILES TO AIRPORT ROAD. HEAD NORTH/LEFT ON AIRPORT ROAD FOR 1.25 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.0FT WEST OF THE EP OF AIRPORT RD, 105FT N OF THE SOUTH ENTRANCE OF NETTLETON CEMETARY, AND 99FT S OF THE NORTH ENTRANCE OF NETTLETON CEMETARY. THE STATION MARK IS A 2 1/2IN CAP STAMPED "160047 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	AT&T UTILITY BOX	306	16.50	54.1
MK # 2				
MK # 3				

AZ Mark Station	160047A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARJB</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARPG</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARWM</td> </tr> </table>	Ref Mon # 1	ARJB	Ref Mon # 2	ARPG	Ref Mon # 3	ARWM
Ref Mon # 1	ARJB						
Ref Mon # 2	ARPG						
Ref Mon # 3	ARWM						
<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Comments</p> <p>ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM B 315 BY S5103 IN JANUARY 2023 FOR JOB #101073. ALSO CHECKED INTO NGS PUBLISHED 2ND ORDER BM C 315 BUT IT DID NOT CHECK WITH B 315 AND STATIC DERIVED ELEVATIONS MATCHED CLOSER TO B 315.</p> </div>							

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160047A	Date Monumented 1/18/2023	Monumented By ARDOT	County CRAIGHEAD	Route REPORT F	Job Number: 101073
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	167,676.6884 0.0010
Easting (M)	521,924.9795 0.0010
Elevation (M)*	85.482
Northing (SFT)	550,119.2685
Easting (SFT)	1,712,348.8702
Elevation (SFT)*	280.453

Convergence Angle	0 47 7.2122710
Scale Factor	0.999945649
Elevation Adjust. Factor	0.9999865852
Combined Adjust. Factor	0.9999322350

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks	
Description	Azimuth
	Distance
	Meters Feet
MK # 1 CULVERT	3 20.80 68.2
MK # 2 UTILITY MARKER	7 19.90 65.3
MK # 3 COMBINATION POLE	278 16.60 54.5

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM B 315 BY S5103 IN JANUARY 2023 FOR JOB #101073. ALSO CHECKED INTO NGS PUBLISHED 2ND ORDER BM C 315 BUT IT DID NOT CHECK WITH B 315 AND STATIC DERIVED ELEVATIONS MATCHED CLOSER TO B 315.
Ref Mon # 2 ARPG	
Ref Mon # 3 ARWM	

Location Description
TO REACH FROM THE JCT. OF HWY 49 AND HWY 18 IN JONESBORO, HEAD NORTH ON HWY 49 FOR 0.5 MILES TO E NETTLETON AVE. HEAD RIGHT/EAST ON E NETTLETON AVE FOR 0.3 MILES TO AIRPORT ROAD. HEAD NORTH/LEFT ON AIRPORT ROAD FOR 0.95 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.6FT W OF THE EP OF AIRPORT ROAD. THE STATION MARK IS A 2 1/2IN CAP STAMPED "160047A 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

AZ Mark Station	160047
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380001A	Date Monumented 12/15/2021	Monumented By AHTD	County LAWRENCE	Route 63	Job Number: 101061
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	208,143.2258 0.0010
Easting (M)	472,392.3745 0.0010
Elevation (M)*	88.590 0.0000
Northing (SFT)	682,883.2333
Easting (SFT)	1,549,840.6487
Elevation (SFT)*	290.650

Convergence Angle	0 28 6.3837221
Scale Factor	0.999994858
Elevation Adjust. Factor	0.9999860975
Combined Adjust. Factor	0.9999809555

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
<p>FROM THE INTERSECTION OF U. S. HWY 63 AND AR STATE HWY 115 SOUTH LOCATED IN IMBODEN, LAWRENCE COUNTY ARKANSAS . TRAVEL WEST 1.0 MILES TO THE STATION ON THE RIGHT 53 FEET (16.1M) NORTHEAST OF THE CENTERLINE OF U. S. HWY 63 AND 54 FEET (16.4M) SOUTHEAST OF THE CENTERLINE OF A GRAVEL FIELD ENTRANCE. THE STATION IS A STANDARD 2 INCH ARDOT GPS MONUMET STAMPED 380001A / 2021, SET ON TOP OF 5/8 INCH REBAR 4 FOOT IN LENGHT SET 0.04 FEET BELOW THE SURFACE.</p>	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	38	2.40	7.9
MK # 2	E. END 18" COURRAGATED METAL PIPE	292	12.80	42.0
MK # 3	FIBER OPTIC UTILITY MARKER	146	19.50	64.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 </p> <p>Ref Mon # 2 </p> <p>Ref Mon # 3 </p>	<p style="text-align: center;">Comments</p> <p>RESET 380001A Levels were ran from H 316</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380023	Date Monumented 12/15/2021	Monumented By AHTD	County LAWRENCE	Route 63	Job Number: 101061
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	209,570.2460	0.0010			
Easting (M)	469,966.0732	0.0010			
Elevation (M)*					
Northing (SFT)	687,565.0488				
Easting (SFT)	1,541,880.3585				
Elevation (SFT)*					

Convergence Angle	0	27	10.1280262
Scale Factor	0.999997355		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	113	30.20	99.1
MK # 2	W. END OF 18" COURRAGATED METAL PIPE	147	8.80	28.9
MK # 3	RR CROSS TIE GATE POST	93	28.30	92.8

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> Comments </div>
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Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	GEOID18
Latitude	36 13 11.2629036
Longitude	91 13 18.6072024
Ellipsoid Height (M):	82.645 0.0060
Geoid Height (M):	-28.303 0.0060

Location Description
FROM THE INTERSECTION OF U. S. HWY 63 AND AR STATE HWY 115 SOUTH LOCATED IN IMBODEN, LAWRENCE COUNTY ARKANSAS . TRAVEL WEST 2.35 MILES TO THE STATION ON THE RIGHT 45 FEET (13.7M) NORTHEAST OF THE CENTERLINE OF U. S. HWY 63 AND 33 FEET (10.0M) WEST OF OF THE CENTERLINE OF A PAVED DRIVEWAY LEADING NORTHWEST. THE STATION IS A STANDARD 3 INCH ARDOT GPS MONUMET STAMPED 380023 / 2021, ON TOP OF 5/8 INCH REBAR 4 FOOT IN LENGHT SET 0.04 FEET BELOW THE SURFACE AND AMONG OUTCROPING ROCKS.

AZ Mark Station	380023A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380023A	Date Monumented 12/15/2021	Monumented By AHTD	County LAWRENCE	Route 63	Job Number: 101061
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	209,362.5841	0.0010			
Easting (M)	470,209.7541	0.0010			
Elevation (M)*					
Northing (SFT)	686,883.7447				
Easting (SFT)	1,542,679.8349				
Elevation (SFT)*					

Convergence Angle	0	27	15.7669018
Scale Factor	0.999996990		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE WITH BOX	293	30.20	99.1
MK # 2	FIBER OPTIC CABLE UTILITY MARKER	252	6.10	20.0
MK # 3	TELEPHONE POLE	163	9.40	30.8

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>OWNER DAVE CLEMENTS REQUEST US (ARDOT SURVEYS) TO STAY OFF OF HIS PROPERTY.</td> </tr> </table>	Comments	OWNER DAVE CLEMENTS REQUEST US (ARDOT SURVEYS) TO STAY OFF OF HIS PROPERTY.
Comments			
OWNER DAVE CLEMENTS REQUEST US (ARDOT SURVEYS) TO STAY OFF OF HIS PROPERTY.			

Location Description
FROM THE INTERSECTION OF U. S. HWY 63 AND AR STATE HWY 115 SOUTH LOCATED IN IMBODEN, LAWRENCE COUNTY ARKANSAS . TRAVEL WEST 2.55 MILES TO THE STATION ON THE LEFT 43 FEET (13.1M) SOUTHWEST OF THE CENTERLINE OF U. S. HWY 63 AND 73 FEET (22.2M) EAST OF THE CENTERLINE OF A PAVED DRIVEWAY LEADING SOUTHWEST, BBB RANCH.THE STATION IS A STANDARD 3 INCH ARDOT GPS MONUMET STAMPED 380023A / 2021, ON TOP OF 5/8 INCH REBAR 4 FOOT IN LENGHT SET 0.04 FEET BELOW THE SURFACE AND AMONG OUTCROPING ROCKS.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090032	Date Monumented 2/14/2023	Monumented By ARDOT	County CHICOT	Route 65	Job Number: 020736
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	462,551.1227 0.0020
Easting (M)	470,534.2366 0.0020
Elevation (M)*	
Northing (SFT)	1,517,553.1417
Easting (SFT)	1,543,744.4079
Elevation (SFT)*	

Convergence Angle	0	25	24.6714726
Scale Factor	1.000016682		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE	338	1.30	4.3
MK # 2	GUY WIRE	190	2.70	8.9
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARHB</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARLV</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARMO, ARMG</td> </tr> </table>	Ref Mon # 1	ARHB	Ref Mon # 2	ARLV	Ref Mon # 3	ARMO, ARMG	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARMO & ARMG</td> </tr> </table>	Comments	STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARMO & ARMG
Ref Mon # 1	ARHB								
Ref Mon # 2	ARLV								
Ref Mon # 3	ARMO, ARMG								
Comments									
STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARMO & ARMG									

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	33 13 41.7839304
Longitude	91 14 35.8677096
Ellipsoid Height (M):	9.630 0.0050
Geoid Height (M):	-26.034 0.0050

Location Description
TO REACH FROM THE JCT. OF HWY 278 AND HWY 65 IN LAKE VILLAGE, HEAD SOUTH ON HWY 65 FOR 3.4 MILES TO T-BOY JAMES RD. HEAD EAST/LEFT ON T-BOY JAMES RD. FOR 0.65 MILES TO THE STATION ON THE LEFT. THE STATION IS 35.5FT EAST OF THE CENTER OF T-BOY JAMES ROAD. THE STATION MARK IS A 2 1/2IN CAP STAMPED "090032 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090032A	Date Monumented 2/14/2023	Monumented By ARDOT	County CHICOT	Route 65	Job Number: 020736
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	462,555.1895 0.0020
Easting (M)	470,140.5765 0.0020
Elevation (M)*	

Northing (SFT)	1,517,566.4842	
Easting (SFT)	1,542,452.8747	
Elevation (SFT)*		

Convergence Angle	0	25	16.1630503
Scale Factor	1.000016667		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
	Description	Azimuth	Distance	
			Meters Feet	
MK # 1	POWERPOLE	90	22.90 75.1	AZ Mark Station 090032
MK # 2				Geodetic Azimuth
MK # 3				Grid Azimuth

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHB Ref Mon # 2 ARLV Ref Mon # 3 ARMG, ARMO	<div style="border: 1px solid black; padding: 5px;"> Comments STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARMO & ARMG </div>
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	33 13 42.0101148
Longitude	91 14 51.0697176
Ellipsoid Height (M):	9.098 0.0050
Geoid Height (M):	-26.026 0.0050

Location Description

TO REACH FROM THE JCT. OF HWY 278 AND HWY 65 IN LAKE VILLAGE, HEAD SOUTH ON HWY 65 FOR 3.4 MILES TO T-BOY JAMES RD. HEAD EAST/LEFT ON T-BOY JAMES RD. FOR 0.425 MILES TO THE STATION ON THE RIGHT. THE STATION IS 20.0FT E OF THE CENTER OF A GRAVEL FIELD ENTRANCE, AND 20.0FT S OF THE CENTER OF T-BOY JAMES ROAD. THE STATION MARK IS A 2 1/2IN CAP STAMPED "090032A 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090033	Date Monumented 2/14/2023	Monumented By ARDOT	County CHICOT	Route 65	Job Number: 020737
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	448,327.7344	0.0020			
Easting (M)	470,556.6531	0.0020			
Elevation (M)*					
Northing (SFT)	1,470,888.5753				
Easting (SFT)	1,543,817.9527				
Elevation (SFT)*					

Convergence Angle	0	25	22.8860737
Scale Factor	1.000050350		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH FROM THE JCT. OF HWY 65 AND HWY 8/E ARMSTRONG ST. IN EUDORA, HEAD SOUTH ON HWY 65 FOR 0.95 MILES TO HWY 8 EAST. HEAD EAST/LEFT ON HWY 8 EAST FOR 0.5 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.6FT EAST OF THE CENTER LINE OF HWY 8 EAST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "090033 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1					090033A
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHB	STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARMO & ARMG.
Ref Mon # 2 ARLV	
Ref Mon # 3 ARMG, ARMO	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 090033A	Date Monumented 2/14/2023	Monumented By ARDOT	County CHICOT	Route 65	Job Number: 020737
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	448,474.2632	0.0020			
Easting (M)	470,161.4567	0.0020			
Elevation (M)*					
Northing (SFT)	1,471,369.3118				
Easting (SFT)	1,542,521.3792				
Elevation (SFT)*					

Convergence Angle	0	25	14.3797307
Scale Factor	1.000049971		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE	314	47.20	154.9
MK # 2	FOC UTILITY MARKER	168	5.20	17.1
MK # 3	POWERPOLE	96	55.20	181.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHB Ref Mon # 2 ARLV Ref Mon # 3 ARMG, ARMO	STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARMO & ARMG. <div style="height: 100px; border: 1px solid black;"></div>

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	33 6 4.9725036
Longitude	91 14 54.2559768
Ellipsoid Height (M):	7.552 0.0050
Geoid Height (M):	-26.075 0.0050

Location Description
TO REACH FROM THE JCT. OF HWY 65 AND HWY 8/E ARMSTRONG ST. IN EUDORA, HEAD SOUTH ON HWY 65 FOR 0.95 MILES TO HWY 8 EAST. HEAD EAST/LEFT ON HWY 8 EAST FOR 0.25 MILES TO THE STATION ON THE LEFT. THE STATION IS 13.7FT E OF THE CENTER LINE OF HWY 8 EAST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "090033A 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

AZ Mark Station	090033
Geodetic Azimuth	
Grid Azimuth	

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 740008	Date Monumented 3/6/2023	Monumented By ARDOT	County WOODRUFF	Route 17	Job Number: 110754
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	110,548.8832	0.0010			
Easting (M)	473,471.8068	0.0010			
Elevation (M)*					
Northing (SFT)	362,692.4610				
Easting (SFT)	1,553,382.0861				
Elevation (SFT)*					

Convergence Angle	0	28	12.8695151
Scale Factor	0.999945952		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWERPOLE	63	2.30	7.5	740008A
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	
Ref Mon # 2 ARJB	
Ref Mon # 3 ARSC, ARWY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 740008A	Date Monumented 3/6/2023	Monumented By ARDOT	County WOODRUFF	Route 17	Job Number: 110754
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	110,553.6835	0.0010			
Easting (M)	473,070.9380	0.0010			
Elevation (M)*					
Northing (SFT)	362,708.2099				
Easting (SFT)	1,552,066.9024				
Elevation (SFT)*					

Convergence Angle	0	28	3.6343807
Scale Factor	0.999945946		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	CONCRETE PILLAR	213	0.60	2.0	740008
MK # 2	POWERPOLE	300	8.30	27.2	
MK # 3	CORA LEE JONES HEADSTONE	97	8.80	28.9	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARJB Ref Mon # 3 ARSC, ARWY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720072	Date Monumented 3/14/2023	Monumented By ARDOT	County WASHINGTON	Route N/A	Job Number: CB7201
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	202,120.0118	0.0020			
Easting (M)	205,307.6439	0.0010			
Elevation (M)*	362.696				
Northing (SFT)	663,122.0720				
Easting (SFT)	673,580.1617				
Elevation (SFT)*	1,189.945				

Convergence Angle	-1	15	31.6560489
Scale Factor	0.999982189		
Elevation Adjust. Factor	0.9999430844		
Combined Adjust. Factor	0.9999252744		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWERPOLE	60	22.20	72.8	A 309
MK # 2	LIGHTPOLE 148246	288	25.30	83.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	ELEV. BASED ON DIGITAL LEVELS BY S5103 IN MARCH 2023 FROM 1ST ORDER NGS PUBLISHED BM A 309 FOR JOB #CB7201
Ref Mon # 2 ARHR	
Ref Mon # 3 CTA1, 720063, 720063A	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320040	Date Monumented 4/3/2023	Monumented By ARDOT	County INDEPENDENCE	Route 25	Job Number: 050439
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	160,733.7011 0.0020
Easting (M)	438,749.8953 0.0020
Elevation (M)*	
Northing (SFT)	527,340.4844
Easting (SFT)	1,439,465.2815
Elevation (SFT)*	

Convergence Angle	0 14 57.8873393
Scale Factor	0.999941834
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
TO REACH FROM THE JCT. OF HWY 167 AND HWY 25 IN BATESVILLE, HEAD EAST ON HWY 25 FOR 3.8 MILES TO MACK ST. HEAD SOUTH/RIGHT ON MACK ST FOR 0.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS 27.7FT W OF THE CL OF MACK ST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "320040 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	JANE AND ANDREW GOODWIN HEADSTON	118	4.10	13.5
MK # 2	CENTER OF REHOBETH CEMETERY SIGN	87	13.70	44.9
MK # 3	POWERPOLE	156	30.60	100.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB, ARBT(VERT)	BATESVILLE CORS USED ONLY FOR VERTICAL CONSTRAINT. GNSS DERIVED ELEV. BASED ON ARBT, ARJB & ARSC
Ref Mon # 2 ARSC	
Ref Mon # 3 ARM3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320040A	Date Monumented 4/3/2023	Monumented By ARDOT	County INDEPENDENCE	Route 25	Job Number: 050439
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	161,145.7559	0.0020			
Easting (M)	438,694.8478	0.0020			
Elevation (M)*					
Northing (SFT)	528,692.3675				
Easting (SFT)	1,439,284.6798				
Elevation (SFT)*					

Convergence Angle	0	14	56.6533358
Scale Factor	0.999942059		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE	76	31.10	102.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB, ARBT (VERT)	BATESVILLE CORS USED ONLY FOR VERTICAL CONSTRAINT. GNSS DERIVED ELEV. BASED ON ARBT, ARJB & ARSC
Ref Mon # 2 ARSC	
Ref Mon # 3 ARM3	

Location Description
TO REACH FROM THE JCT. OF HWY 167 AND HWY 25 IN BATESVILLE, HEAD EAST ON HWY 25 FOR 3.75 MILES TO THE STATION ON THE RIGHT. THE STATION IS 32.4FT S OF THE CL OF HWY 25, AND 3.4FT N OF A FE POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "320040A 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

AZ Mark Station	320040
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340015	Date Monumented 4/10/2023	Monumented By ARDOT	County JACKSON	Route 17	Job Number: 050451
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	139,234.6658	0.0020			
Easting (M)	469,376.6812	0.0020			
Elevation (M)*					
Northing (SFT)	456,805.7327				
Easting (SFT)	1,539,946.6616				
Elevation (SFT)*					

Convergence Angle	0	26	43.6559373
Scale Factor	0.999935936		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE	207	10.50	34.4
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	
Ref Mon # 2 ARJB	
Ref Mon # 3 ARSC, ARWY	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 35 9.3497568
Longitude	91 14 4.0997760
Ellipsoid Height (M):	41.094 0.0060
Geoid Height (M):	-27.517 0.0060

Location Description
<p>TO REACH FROM THE JCT. OF HWY I-67 AND HWY 17 IN NEWPORT, HEAD SOUTH ON HWY 17 FOR 1.15 MILES TO COUNTY ROAD 255. HEAD LEFT/EAST ON COUNTY ROAD 255 FOR 0.05 MILES TO COUNTY ROAD 252. HEAD NORTH/LEFT ON COUNTY ROAD 252 FOR 0.25 MILES TO THE STATION ON THE LEFT. THE STATION IS 16.0FT N OF THE CENTER LINE OF COUNTY ROAD 252. THE STATION MARK IS A 2 1/2IN CAP STAMPED "340015 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340015A	Date Monumented 4/10/2023	Monumented By ARDOT	County JACKSON	Route 17	Job Number: 050451
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	138,832.0199	0.0020			
Easting (M)	469,339.8460	0.0020			
Elevation (M)*					
Northing (SFT)	455,484.7186				
Easting (SFT)	1,539,825.8114				
Elevation (SFT)*					

Convergence Angle	0	26	42.7322001
Scale Factor	0.999935936		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWERPOLE	261	20.10	65.9	340015
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARBT	
Ref Mon # 2: ARJB	
Ref Mon # 3: ARSC, ARWY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150014	Date Monumented 4/6/2023	Monumented By ARDOT	County CONWAY	Route HWY 113	Job Number: 113
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	84,097.0298	0.0010	
Easting (M)	332,351.9922	0.0010	
Elevation (M)*	92.672		

Northing (SFT)	275,908.3386		
Easting (SFT)	1,090,391.4944		
Elevation (SFT)*	304.042		

Convergence Angle	0	25	54.0962135
Scale Factor	0.999973037		
Elevation Adjust. Factor	0.9999854569		
Combined Adjust. Factor	0.9999584943		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

From the intersection of Hwy 9/Hwy 113

Location Reference Marks

Description	Azimuth	Distance			
		Meters	Feet		
MK # 1 COMBINATION POLE	116			AZ Mark Station	150014A
MK # 2				Geodetic Azimuth	2°32'10.6"
MK # 3				Grid Azimuth	

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARCW</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARDV</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARRV</td> </tr> </table>	Ref Mon # 1	ARCW	Ref Mon # 2	ARDV	Ref Mon # 3	ARRV	<div style="border: 1px solid black; height: 100px; margin: 5px 0;"></div> <p style="text-align: center; margin: 0;">Comments</p>
Ref Mon # 1	ARCW						
Ref Mon # 2	ARDV						
Ref Mon # 3	ARRV						

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350037	Date Monumented 4/12/2022	Monumented By S5101	County JEFFERSON	Route 365	Job Number: 020661
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	586,650.4715 0.0061
Easting (M)	386,761.9113 0.0062
Elevation (M)*	101.335 0.0035
Northing (SFT)	1,924,702.4219
Easting (SFT)	1,268,901.3707
Elevation (SFT)*	332.463

Convergence Angle	0 4 49.9309002
Scale Factor	0.999933535
Elevation Adjust. Factor	0.9999840975
Combined Adjust. Factor	0.9999176336

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
<p>FROM THE INTERSECTION OF INTERSTATE 530 AND STATE HIGHWAY 104 (EXIT 30) NEAR WHITE HALL IN JEFFERSON COUNTY ARKANSAS TRAVEL NORTH ALONG STATE HIGHWAY 104 FOR 2.57 MILES TO THE INTERSECTION OF STATE HIGHWAY 104 AND STATE HIGHWAY 365 (DOLLARWAY ROAD) THEN TRAVEL NORTHWEST ALONG STATE HIGHWAY 365 FOR 0.39 MILES TO THE INTERSECTION OF STATE HIGHWAY 365 AND ROEMER ROAD AND THE STATION ON THE RIGHT. THE STATION IS A STANDARD 3 INCH ARDOT GPS CAP STAMPED 350037 (2022) SET JUST BELOW GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 11.89 METERS RIGHT OF THE CENTERLINE OF STATE HIGHWAY 365 AND 26.52 METERS SOUTH OF THE CENTERLINE OF ROEMER ROAD.</p>	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SERVICE POLE W GUY	50	10.06	33.0
MK # 2	NORTHWEST CORNER OF BLOCK BUILDIN	95	23.47	77.0
MK # 3	WEST EDGE OF SIGN	130	5.18	17.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPB Ref Mon # 2 ARLR Ref Mon # 3 ARSH	<p>ELEV DETERMINED BY DIGITAL LEVEL RUN FROM NGS BM G 288 DURING JOB 020661 BY CREW S5101 IN APRIL 2022.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350037A	Date Monumented 4/12/2022	Monumented By S5101	County JEFFERSON	Route 365	Job Number: 020661
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	587,202.8091 0.0063
Easting (M)	386,277.9424 0.0065
Elevation (M)*	102.077 0.0035
Northing (SFT)	1,926,514.5495
Easting (SFT)	1,267,313.5494
Elevation (SFT)*	334.898

Convergence Angle	0 5 0.5480422
Scale Factor	0.999934014
Elevation Adjust. Factor	0.9999839810
Combined Adjust. Factor	0.9999179961

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	330	18.59	61.0
MK # 2	FENCE CORNER	140	15.85	52.0
MK # 3	SERVICE POLE W GUY	280	26.00	85.3

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPB Ref Mon # 2 ARLR Ref Mon # 3 ARSH	ELEV DETERMINED BY DIGITAL LEVEL RUN FROM NGS BM G 288 DURING JOB 020661 BY CREW S5101 IN APRIL 2022.

Location Description	
FROM THE INTERSECTION OF INTERSTATE 530 AND STATE HIGHWAY 104 (EXIT 30) NEAR WHITE HALL IN JEFFERSON COUNTY ARKANSAS TRAVEL NORTH ALONG STATE HIGHWAY 104 FOR 2.57 MILES TO THE INTERSECTION OF STATE HIGHWAY 104 AND STATE HIGHWAY 365 (DOLLARWAY ROAD) THEN TRAVEL NORTHWEST ALONG STATE HIGHWAY 365 FOR 0.83 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 3 INCH ARDOT GPS CAP STAMPED 350037A (2022) SET JUST BELOW GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 14.29 METERS LEFT OF THE CENTERLINE OF STATE HIGHWAY 365 AND NEAR THE TOP OF THE OUTER DITCH BANK.	

AZ Mark Station	350037
Geodetic Azimuth	138 41 27.8
Grid Azimuth	138 46 28.4

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180033A	Date Monumented 5/28/2022	Monumented By ARDOT	County CRITTENDEN	Route LEGE BL	Job Number: 110738
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	92,056.7061 0.0010
Easting (M)	561,791.3000 0.0010
Elevation (M)*	64.632
Northing (SFT)	302,022.7099
Easting (SFT)	1,843,143.6234
Elevation (SFT)*	212.048

Convergence Angle	1 1 59.8410293
Scale Factor	0.999964480
Elevation Adjust. Factor	0.9999898572
Combined Adjust. Factor	0.9999543375

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	315	16.90	55.4
MK # 2	FIRE HYDRANT	32	4.00	13.1
MK # 3	BRICK FENCE CORNER	184	7.00	23.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB Ref Mon # 2 AROC Ref Mon # 3 ARWM, ARWY	ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738

Location Description			
TO REACH THE STATION MARK FROM THE JCT. OF HWY 70 AND HWY 77 IN WEST MEMPHIS HEAD WEST ON HWY 70 FOR 2.2 MILES TO COLLEGE BLVD. HEAD NORTH/RIGHT ON COLLEGE BLVD FOR 0.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS 33.5FT E OF THE EP OF COLLEGE BLVD, AND 29.7FT E OF THE CENTER OF A STORM SEWER MANHOLE. THE STATION MARK IS A 2 1/2" CAP STAMPED "180033 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260042	Date Monumented 8/25/2022	Monumented By ARDOT	County GARLAND	Route HWY 70	Job Number: BR2606
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	604,518.8892	0.0020			
Easting (M)	312,024.2501	0.0020			
Elevation (M)*					
Northing (SFT)	1,983,325.7223				
Easting (SFT)	1,023,699.5605				
Elevation (SFT)*					

Convergence Angle	0	32	10.3877736
Scale Factor	0.999952380		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	133	8.60	28.2
MK # 2	GUY POLE	94	6.80	22.3
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARGS</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARLR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARRV</td> </tr> </table>	Ref Mon # 1	ARGS	Ref Mon # 2	ARLR	Ref Mon # 3	ARRV	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>LT:34.3025 LG:92.5729</td> </tr> </table>	Comments	LT:34.3025 LG:92.5729
Ref Mon # 1	ARGS								
Ref Mon # 2	ARLR								
Ref Mon # 3	ARRV								
Comments									
LT:34.3025 LG:92.5729									

Location Description
TO REACH FROM THE JCT. OF HWY 70 AND HWY 270 NEAR HOT SPRINGS, HEAD NORTH ON HWY 70 FOR 2.4 MILES, THEN TAKE EXIT 11A TO STAY ON HWY 70. CONTINUE ON HWY 70 FOR 0.9 MILES TO THE STATION ON THE RIGHT. THE STATION WILL BE ON TOP OF THE HILL IN FRONT OF THE LEARN AND PLAY ENRICHMENT ACADEMY. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "260042 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260042A	Date Monumented 8/25/2022	Monumented By ARDOT	County GARLAND	Route HWY 70	Job Number: BR2606
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	604,584.6668	0.0020			
Easting (M)	311,597.0634	0.0020			
Elevation (M)*					
Northing (SFT)	1,983,541.5277				
Easting (SFT)	1,022,298.0322				
Elevation (SFT)*					

Convergence Angle	0	32	19.7742431
Scale Factor	0.999952460		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	SOUTH CORNER OF CRESTVIEW CEMETARY	224	13.50	44.3	AZ Mark Station 260042
MK # 2	LaLUMANDIER MONUMENT	201	37.80	124.0	Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="ARGS"/> Ref Mon # 2 <input type="text" value="ARLR"/> Ref Mon # 3 <input type="text" value="ARRV"/>	LT:34.3027 LG:92.5746

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170038	Date Monumented 9/12/2022	Monumented By ARDOT	County CRAWFORD	Route 59	Job Number: 040885
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	129,574.8561	0.0010			
Easting (M)	186,230.4010	0.0010			
Elevation (M)*	186.238				
Northing (SFT)	425,113.5071				
Easting (SFT)	610,990.9073				
Elevation (SFT)*	611.014				

Convergence Angle	-1	22	15.1413093		
Scale Factor	0.999937638				
Elevation Adjust. Factor	0.9999707741				
Combined Adjust. Factor	0.9999084139				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH FROM THE JCT. OF I-40 AND HWY 59 IN VAN BUREN, HEAD NORTH ON HWY 59 FOR 1.05 MILES TO THE STATION ON THE RIGHT, THE STATION IS 20.4FT E OF THE EP OF HWY 59. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "170038 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	POWERPOLE	209		10.30	33.8
MK # 2	STORM SEWER MANHOLE	272		15.20	49.9
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY</p> <p>Ref Mon # 2 ARRV</p> <p>Ref Mon # 3 OKHV, OKMU</p>	<p style="text-align: center;">Comments</p> <p>ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPT. 2022 FOR JOB #040885 FROM TBM #903 FROM JOB #040872 WHICH IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM R 28</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170038A	Date Monumented 9/12/2022	Monumented By ARDOT	County CRAWFORD	Route 59	Job Number: 040885
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	129,876.0903	0.0010			
Easting (M)	186,218.2595	0.0010			
Elevation (M)*	171.713				
Northing (SFT)	426,101.8063				
Easting (SFT)	610,951.0730				
Elevation (SFT)*	563.362				

Convergence Angle	-1	22	15.5878783
Scale Factor	0.999937552		
Elevation Adjust. Factor	0.9999730533		
Combined Adjust. Factor	0.9999106070		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TRAFFIC SIGNAL POLE	24	10.00	32.8
MK # 2	MAILBOX	203	18.60	61.0
MK # 3	SERVICE POLE	138	27.80	91.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 ARRV Ref Mon # 3 OKHV, OKMU	ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPT. 2022 FOR JOB #040885 FROM TBM #903 FROM JOB #040872 WHICH IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM R 28

Location Description	
TO REACH FROM THE JCT. OF I-40 AND HWY 59 IN VAN BUREN, HEAD NORTH ON HWY 59 FOR 1.25 MILES TO THE STATION ON THE LEFT, THE STATION IS 31.9FT W OF THE CL OF HWY 59. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "170038A 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170039	Date Monumented 9/12/2022	Monumented By ARDOT	County CRAWFORD	Route 59	Job Number: 040885
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	132,233.0463	0.0010			
Easting (M)	186,161.7766	0.0010			
Elevation (M)*	236.404				
Northing (SFT)	433,834.5861				
Easting (SFT)	610,765.7621				
Elevation (SFT)*	775.601				

Convergence Angle	-1	22	18.1939098
Scale Factor	0.999936956		
Elevation Adjust. Factor	0.9999629019		
Combined Adjust. Factor	0.9998998603		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	AOG GAS UM	138	16.20	53.1
MK # 2	8FT BRICK PILLAR	7	3.00	9.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARFY	ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPT. 2022 FOR JOB #040885 FROM TBM #903 FROM JOB #040872 WHICH IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM R 28
Ref Mon # 2: ARRV	
Ref Mon # 3: OKHV, OKMU	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 30 7.8405408
Longitude	94 21 26.3401092
Ellipsoid Height (M):	206.805 0.0060
Geoid Height (M):	-29.576 0.0060

Location Description
<p>TO REACH FROM THE JCT. OF I-40 AND HWY 59 IN VAN BUREN, HEAD NORTH ON HWY 59 FOR 2.6 MILES TO SCOTT'S FARM DRIVE. GO WEST/LEFT ON SCOTT'S FARM DRIVE FOR 0.2 MILES TO SCOTT'S FARM LOOP. GO RIGHT/NORTH FOR 0.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS APPROXIMATELY 350FT. EAST OF THE ROAD. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "170039 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.</p>

AZ Mark Station	170039A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 170039A	Date Monumented 9/12/2022	Monumented By ARDOT	County CRAWFORD	Route 59	Job Number: 040885
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	132,655.2042	0.0010			
Easting (M)	186,373.2572	0.0010			
Elevation (M)*	234.478				
Northing (SFT)	435,219.6158				
Easting (SFT)	611,459.5947				
Elevation (SFT)*	769.283				

Convergence Angle	-1	22	13.5451589		
Scale Factor	0.999936862				
Elevation Adjust. Factor	0.9999632041				
Combined Adjust. Factor	0.9999000684				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH FROM THE JCT. OF I-40 AND HWY 59 IN VAN BUREN, HEAD NORTH ON HWY 59 FOR 3.0 MILES TO THE STATION ON THE RIGHT. THE STATION IS 34.1FT W OF THE CL OF HWY 59, AND 15.8FT NE OF A WATER VALVE. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "170039A 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	FOC UM		126	1.95	6.4
MK # 2	POWERPOLE		2	26.30	86.3
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARFY</p> <p>Ref Mon # 2 ARRV</p> <p>Ref Mon # 3 OKHV, OKMU</p>	<p style="text-align: center;">Comments</p> <p>ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPT. 2022 FOR JOB #040885 FROM TBM #903 FROM JOB #040872 WHICH IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM R 28</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160045	Date Monumented 9/29/2022	Monumented By ARDOT	County CRAIGHEAD	Route HWY 91	Job Number: 101066
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	168,964.6158	0.0010			
Easting (M)	506,594.7649	0.0010			
Elevation (M)*	95.268				
Northing (SFT)	554,344.7437				
Easting (SFT)	1,662,052.9912				
Elevation (SFT)*	312.558				

Convergence Angle	0	41	12.1276633		
Scale Factor	0.999946704				
Elevation Adjust. Factor	0.9999850496				
Combined Adjust. Factor	0.9999317544				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH FROM THE JCT. OF HWY 349 AND HWY 91 NEAR WESTSIDE SCHOOLS IN JONESBORO, HEAD WEST ON HWY 91 FOR 1.2MILES TO COUNTY ROAD 133. TURN RIGHT/NORTH ON COUNTY ROAD 133 AND THE STATION WILL BE ON THE RIGHT. THE STATION IS 18.0FT E OF COUNTY ROAD 133, AND 57.8FT N OF THE CL OF HWY 91. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "160045 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	MAILBOX		333	13.60	44.6
MK # 2	POWERPOLE		68	18.10	59.4
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARBT</p> <p>Ref Mon # 2 ARJB</p> <p>Ref Mon # 3 ARPG, ARWY</p>	<p style="text-align: center;">Comments</p> <p>ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM H 315 BY S5103 FOR JOB #101066 IN OCT. 2022.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160045A	Date Monumented 9/29/2022	Monumented By ARDOT	County CRAIGHEAD	Route HWY 91	Job Number: 101066
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	169,334.2393	0.0010			
Easting (M)	506,603.3983	0.0010			
Elevation (M)*	95.309				
Northing (SFT)	555,557.4168				
Easting (SFT)	1,662,081.3159				
Elevation (SFT)*	312.694				

Convergence Angle	0	41	12.4306144
Scale Factor	0.999946975		
Elevation Adjust. Factor	0.9999850431		
Combined Adjust. Factor	0.9999320189		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWERPOLE	128	20.60	67.6	160045
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARBT	ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM H 315 BY S5103 FOR JOB #101066 IN OCT. 2022.
Ref Mon # 2: ARJB	
Ref Mon # 3: ARPG, ARWY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
H 315 A RESET	9/29/2022	ARDOT	CRAIGHEAD	91	101066

Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	169,334.5280	0.0010			
Easting (M)	510,762.6139	0.0010			
Elevation (M)*	85.873				
Northing (SFT)	555,558.3639				
Easting (SFT)	1,675,727.0091				
Elevation (SFT)*	281.736				

Convergence Angle	0	42	48.8847402
Scale Factor	0.999946938		
Elevation Adjust. Factor	0.9999865239		
Combined Adjust. Factor	0.9999334626		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	BILLBOARD POST	226	27.50	90.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM H 315 BY S5103 FOR JOB #101066 IN OCT. 2022.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station H 315	Date Monumented 1/1/1990	Monumented By NGS	County CRAIGHEAD	Route 91	Job Number: 101066
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	169,665.1168 0.0010
Easting (M)	510,518.4427 0.0010
Elevation (M)*	87.926 0.0001
Northing (SFT)	556,642.9707
Easting (SFT)	1,674,925.9241
Elevation (SFT)*	288.471

Convergence Angle	0 42 43.3176107
Scale Factor	0.999947185
Elevation Adjust. Factor	0.9999862017
Combined Adjust. Factor	0.9999333875

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
<p>TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63, 63B AND STATE HIGHWAYS 91 NORTH AND 18 WEST ON THE NORTHWEST SIDE OF JONESBORO, GO SOUTHERLY ON U.S. HIGHWAY 63 FOR 0.24 KM. (0.15 MI.) TO THE STATION ON THE LEFT ALONG THE EAST RIGHT OF WAY FENCE. 20.5 METERS NORTHEAST OF THE CENTER OF THE NORTH BOUND LANE OF HWY-63, 0.45 METERS WEST SOUTHWEST OF A METAL WITNESS POST SET IN THE FENCE LINE AND 0.35 METERS SOUTHWEST OF A CARSONITE WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN TO AN UNKNOWN DEPTH AND SURROUNDED BY A PLASTIC PIPE WITH A LOGO CAP STAMPED "H 315 1990" AND ENCASED IN CONCRETE.</p>	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	242	14.45	47.4
MK # 2	1.60 METER OAK	9	30.20	99.1
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARBT</p> <p>Ref Mon # 2 ARJB</p> <p>Ref Mon # 3 ARPG, ARWY</p>	<p style="text-align: center;">Comments</p> <p>THIS IS AN NGS 1ST ORDER CLASS II BM</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640018	Date Monumented 10/17/2022	Monumented By ARDOT	County SEARCY	Route 65	Job Number: 090672
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	166,403.7974	
Easting (M)	348,629.1636	
Elevation (M)*		
Northing (SFT)	545,943.1253	
Easting (SFT)	1,143,794.1809	
Elevation (SFT)*		

Convergence Angle	0	19	51.0845420
Scale Factor	0.999945247		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	DOLLAR GENERAL SIGN	355	13.70	44.9
MK # 2	NORTH END OF A HEAD WALL	148	23.50	77.1
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR Ref Mon # 2 ARRV Ref Mon # 3 ARBT	70 FT SOUTHEAST OF THE CENTER LINE OF A CONCRETE DRIVEWAY LEADING TO DOLLAR GENERAL. 25 FT SOUTHWEST OF THE EDGE OF A CONCRETE PARKING LOT FOR DOLLAR GENERAL.

Location Description			
THE INTERSECTION OF US HIGHWAY 65 AND AR STATE HIGHWAY 66 LOCATED IN LESILE, SEARCY COUNTY ARKANSAS. TRAVEL NORTH ALONG US HIGHWAY 65 0.8 MILES TO THE STATION ON THE RIGHT 44 FEET NORTHEAST OF THE CENTER LINE OF THE HIGHWAY AND 17 FEET SOUTHWEST OF A WITNESS POST. THE STATION IS A STANDARD 2.5 INCH ARDOT GPS CAP STAMPED 640018A, 2022 SET AT GROUND LEVEL ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH.			

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	Geoid 18
Latitude	35 49 54.8711760
Longitude	92 34 6.8917800
Ellipsoid Height (M):	269.935
Geoid Height (M):	-27.957

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 640018A	Date Monumented 10/17/2022	Monumented By ARDOT	County Searcy	Route 65	Job Number: 090672
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	166,775.6644	
Easting (M)	348,295.1553	
Elevation (M)*		
Northing (SFT)	547,163.1590	
Easting (SFT)	1,142,698.3553	
Elevation (SFT)*		

Convergence Angle	0	19	58.8788015
Scale Factor	0.999945500		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	47	5.50	18.0
MK # 2	WATERLINE STAND PIPE	100	6.10	20.0
MK # 3	NORTHWEST COR. BLOCK BLD.	8	21.30	69.9

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARRV</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARBT</td> </tr> </table>	Ref Mon # 1	ARHR	Ref Mon # 2	ARRV	Ref Mon # 3	ARBT	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARHR							
Ref Mon # 2	ARRV							
Ref Mon # 3	ARBT							
Comments								

Vertical Determined By:

Elevation Datum:

Geoid Datum: Geoid 18

Latitude 35 50 6.8741880

Longitude 92 34 20.2863000

Ellipsoid Height (M): 280.301

Geoid Height (M): -27.962

Location Description

THE INTERSECTION OF US HIGHWAY 65 AND AR STATE HIGHWAY 66 LOCATED IN LESILE, SEARCY COUNTY ARKANSAS. TRAVEL NORTH ALONG US HIGHWAY 65 0.5 MILES TO THE STATION ON THE RIGHT 50.0 FEET NORTHEAST OF THE CENTER LINE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5 INCH ARDOT GPS CAP STAMPED 640018, 2022 SET AT GROUND LEVEL ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260020A (2022)	4/10/2003	AHTD	GARLAND	70	R60140

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)
Northing (M)	604,316.2123 0.0010
Easting (M)	308,179.7777 0.0010
Elevation (M)*	

Northing (SFT)	1,982,660.7732	
Easting (SFT)	1,011,086.4873	
Elevation (SFT)*		

Convergence Angle	0	33	34.6955420
Scale Factor	0.999952070		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 70 AND 70B (EXIT#2), EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 2.2 MILES TO THE STATION ON THE LEFT IN THE MEDIAN. THE STATION IS EAST 0.50 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "260020A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
260020A					260020 RESET
MK # 2					Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ Ref Mon # 2 ARGS Ref Mon # 3 ARLR, ARRV	THIS IS THE SAME GPS MONUMENT AS 260020A. A NEW DATA SHEET WAS CREATED TO PUBLISH A NEWLY TRACKED NAD 83 (2011) POSITION FROM STATIC WORK PERFORMED ON 10-17-22.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260020 RESET	4/10/2003	AHTD	GARLAND	70	R60140

Zone	Zone Code	Vertical Determined By:
Arkansas South	302	GPS - Unknown Quality
Horizontal Datum	NAD 83 (2011)	
Northing (M)	604,286.5663	0.0010
Easting (M)	308,834.6745	0.0010
Elevation (M)*		
Northing (SFT)	1,982,563.5096	
Easting (SFT)	1,013,235.0946	
Elevation (SFT)*		

Convergence Angle	0	33	20.3205621
Scale Factor	0.999952040		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 70 AND HIGHWAY 70B (EXIT#2), EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 FOR 2.6 MILES TO THE STATION ON THE RIGHT, SOUTH OF THE SERVICE ROAD AND NEXT TO A 5 STRAN BARB WIRE FENCE. THE STATION IS 11.0 METERS SOUTH OF THE CENTERLINE OF THE SERVICE ROAD AND NORTH 1.05 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED ""260020 2003"" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND."</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					AZ Mark Station
260020A (2022)					
Geodetic Azimuth					
Grid Azimuth					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	EXISTING 260020 REBAR FOUND WITH CAP REMOVED. SET NEW CAP AND RE-TRACKED ON 10-17-22.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260039	Date Monumented 10/17/2022	Monumented By ARDOT	County GARLAND	Route NEW LOC	Job Number: R60140
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	606,019.0377	0.0010	
Easting (M)	309,725.1881	0.0010	
Elevation (M)*			
Northing (SFT)	1,988,247.4595		
Easting (SFT)	1,016,156.7213		
Elevation (SFT)*			

Convergence Angle	0	33	1.1475049
Scale Factor	0.999954322		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ Ref Mon # 2 ARGS Ref Mon # 3 ARLR, ARRV	ESTABLISHED IN THE FALL OF 2022 FOR CONSTRAINING UAV LIDAR WORK.

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	34 31 12.8008272
Longitude	92 58 59.7185472
Ellipsoid Height (M):	268.506 0.0030
Geoid Height (M):	-27.050 0.0030

Location Description
FROM THE INTERCHANGE OF HWY. 70 & 70B N.B. OVERPASS DIRECTLY OVER THE HWY. 70 MEDIAN FOLLOW THE NEWLY CONSTRUCTED ROUTE NORTH FOR APPROXIMATELY 1.30 MILES AND THE MARK IS LOCATED APPROXIMATELY 290 FEET LEFT OF CENTER OF THE NEWLY CONSTRUCTED ROADWAY AND ON TOP OF THE PEAK THAT CAN ONLY BE ACCESSED FROM PROMISE LAND DRIVE FROM THE WEST OF THE PEAK.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260040	Date Monumented 10/17/2022	Monumented By ARDOT	County GARLAND	Route NEW LOC	Job Number: R60140
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	608,388.8643	0.0010	
Easting (M)	309,859.7131	0.0010	
Elevation (M)*			
Northing (SFT)	1,996,022.4656		
Easting (SFT)	1,016,598.0754		
Elevation (SFT)*			

Convergence Angle	0	32	58.6943282
Scale Factor	0.999957549		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	ESTABLISHED IN THE FALL OF 2022 FOR CONSTRAINING UAV LIDAR WORK.
Ref Mon # 2 ARGS	
Ref Mon # 3 ARLR, ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260040A	Date Monumented 10/17/2022	Monumented By ARDOT	County GARLAND	Route NEW LOC	Job Number: R60140
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	607,924.9704	0.0010			
Easting (M)	309,758.4503	0.0010			
Elevation (M)*					
Northing (SFT)	1,994,500.5071				
Easting (SFT)	1,016,265.8490				
Elevation (SFT)*					

Convergence Angle	0	33	0.8192517
Scale Factor	0.999956906		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	
Ref Mon # 1	ARDQ
Ref Mon # 2	ARGS
Ref Mon # 3	ARLR, ARRV

Comments
ESTABLISHED IN THE FALL OF 2022 FOR CONSTRAINING UAV LIDAR WORK.

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	32	14.6630256
Longitude	92	58	59.1320568
Ellipsoid Height (M):	140.790	0.0030	
Geoid Height (M):	-27.097	0.0030	

Location Description
APPROXIMATELY 312 FEET SOUTH OF THE DENISE LN. OVERPASS IN THE GRAVEL GORE/SHOULDER AREA OF THE S.B. EXIT RAMP

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260039A	Date Monumented 10/17/2022	Monumented By ARDOT	County GARLAND	Route NEW LOC	Job Number: R60140
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	605,831.8688 0.0010
Easting (M)	309,193.2176 0.0010
Elevation (M)*	

Northing (SFT)	1,987,633.3896	
Easting (SFT)	1,014,411.4147	
Elevation (SFT)*		

Convergence Angle	0	33	12.7815843
Scale Factor	0.999954066		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

FROM THE CENTER OF THE PROMISE LAND DRIVE OVERPASS DIRECTLY OVER THE CENTER OF THE NEWLY CONSTRUCTED ROADWAY GO WEST APPROXIMATELY 815 FEET TO THE INTERSECTION OF PROMISE LAND DRIVE AND TWO PRIVATE DRIVES, THEN STAY STRAIGHT AND THROUGH THE GATE OF THE PRIVATE DRIVE DIRECTLY AHEAD FOR AN APPROXIMATE DISTANCE OF 1,153 FEET WHERE THERE'S A ROUND TURNAROUND AT THE END OF THE DRIVE AND WHERE A TRAIL CONTINUES WEST.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	260039
Geodetic Azimuth	71° 10 ' 11"
Grid Azimuth	70° 36 ' 58"

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ Ref Mon # 2 ARGS Ref Mon # 3 ARLR, ARRV	ESTABLISHED IN THE FALL OF 2022 FOR CONSTRAINING UAV LIDAR WORK.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260041	Date Monumented 10/17/2022	Monumented By ARDOT	County GARLAND	Route NEW LOC	Job Number: R60140
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	612,356.2179	0.0010			
Easting (M)	310,010.7047	0.0010			
Elevation (M)*					
Northing (SFT)	2,009,038.6916				
Easting (SFT)	1,017,093.4537				
Elevation (SFT)*					

Convergence Angle	0	32	56.2144382
Scale Factor	0.999963264		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ Ref Mon # 2 ARGS Ref Mon # 3 ARLR, ARRV	ESTABLISHED IN THE FALL OF 2022 FOR CONSTRAINING UAV LIDAR WORK.

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	34 34 38.5442724
Longitude	92 58 50.9046312
Ellipsoid Height (M):	145.705 0.0030
Geoid Height (M):	-27.209 0.0030

Location Description
APPROXIMATELY 570 FEET SOUTH OF THE CENTER OF THE ROUNDABOUT AT THE INTERSECTION OF HWY. 5 & HWY. 7 ALONG THE NEWLY CONSTRUCTED ROADWAY SET BEHIND THE EAST GUARDRAIL OF THE BRIDGE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260041A	Date Monumented 10/17/2022	Monumented By ARDOT	County GARLAND	Route NEW LOC	Job Number: R60140
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	611,947.5146	0.0010			
Easting (M)	310,078.8327	0.0010			
Elevation (M)*					
Northing (SFT)	2,007,697.8042				
Easting (SFT)	1,017,316.9703				
Elevation (SFT)*					

Convergence Angle	0	32	54.6324803
Scale Factor	0.999962658		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	260041
Geodetic Azimuth	351° 05 ' 05"
Grid Azimuth	350° 32 ' 10"

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	ESTABLISHED IN THE FALL OF 2022 FOR CONSTRAINING UAV LIDAR WORK.
Ref Mon # 2 ARGS	
Ref Mon # 3 ARLR, ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 260021 (2022)	Date Monumented 4/10/2003	Monumented By AHTD	County GARLAND	Route N/A	Job Number: R60140
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	609,661.6785	0.0010			
Easting (M)	310,430.5407	0.0010			
Elevation (M)*					
Northing (SFT)	2,000,198.3569				
Easting (SFT)	1,018,470.8656				
Elevation (SFT)*					

Convergence Angle	0	32	46.4310521
Scale Factor	0.999959347		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
SEE LOCATION DESCRIPTION FOR 260021			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1					
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	SAME MONUMENT AS 260021 WITH NEWLY TRACKED POSITION FROM STATIC WORK PERFORMED ON 10-17-22
Ref Mon # 2 ARGS	
Ref Mon # 3 ARLR, ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260021A (2022)	4/10/2003	AHTD	GARLAND	N/A	R60140

Zone	Zone Code	Vertical Determined By:
Arkansas South	302	GPS - Unknown Quality
Horizontal Datum	NAD 83 (2011)	
Northing (M)	609,162.3743	0.0010
Easting (M)	310,578.7699	0.0010
Elevation (M)*		
Northing (SFT)	1,998,560.2230	
Easting (SFT)	1,018,957.1809	
Elevation (SFT)*		

Convergence Angle	0	32	43.0726635
Scale Factor	0.999958642		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
SEE LOCATION DESCRIPTION FOR 260021A			

Location Reference Marks				
	Description	Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	260021 (2022)
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	SAME MONUMENT AS 260021A WITH NEWLY TRACKED POSITION FROM STATIC WORK PERFORMED ON 10-17-22
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460025 RESET	10/25/2022	ARDOT	MILLER	R HILL I	030575

Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	492,925.4239	0.0010
Easting (M)	215,938.5422	0.0010
Elevation (M)*	98.734	

Northing (SFT)	1,617,206.1616	
Easting (SFT)	708,458.3672	
Elevation (SFT)*	323.931	

Convergence Angle	-1	6	30.9613920
Scale Factor	0.999963565		
Elevation Adjust. Factor	0.9999845056		
Combined Adjust. Factor	0.9999480712		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 296 WEST LOCATED NORTHEAST OF TEXARKANA, GO WEST ON STATE HIGHWAY 296 FOR 1.05 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.20 METERS EAST OF AN ASPHALT DRIVE, 9.85 METERS NORTH OF THE CENTER OF STATE HIGHWAY 296, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460025 RESET 2022" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	280	7.50	24.6
MK # 2	TELEPHONE JUNCTION BOX	290	7.30	24.0
MK # 3				

AZ Mark Station	460025A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ARCM
Ref Mon # 2	ARDQ
Ref Mon # 3	ARHP, TXMV
ELEV. BASED ON TBM #902 FROM JOB #030477 WHICH WAS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BMs H 307, A 1497 & B 1497 BY S5112 IN SEPT. 2020 FOR JOB #030477	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460025A RESET	10/25/2022	ARDOT	MILLER	R HILL I	030575

Zone	Zone Code	
Arkansas South	302	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	492,957.1854	0.0010
Easting (M)	215,168.2750	0.0010
Elevation (M)*	90.989	
Northing (SFT)	1,617,310.3658	
Easting (SFT)	705,931.2489	
Elevation (SFT)*	298.519	

Convergence Angle	-1	6	47.6721008
Scale Factor	0.999963540		
Elevation Adjust. Factor	0.9999857211		
Combined Adjust. Factor	0.9999492616		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	291	4.70	15.4
MK # 2	POWER POLE	282	19.20	63.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARDQ Ref Mon # 3 ARHP, TXMV	ELEV. BASED ON TBM #902 FROM JOB #030477 WHICH WAS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BMs H 307, A 1497 & B 1497 BY S5112 IN SEPT. 2020 FOR JOB #030477

Location Description	
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 296 WEST, LOCATED NORTHEAST OF TEXARKANA, GO WEST ON STATE HIGHWAY 296 FOR 1.51 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12.40 METERS EAST OF A GRAVEL DRIVE, 9.30 METERS NORTH OF THE CENTER OF STATE HIGHWAY 296, AND 3.00 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460025A RESET 2022" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.	

AZ Mark Station	460025
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460027A RESET	10/25/2022	ARDOT	MILLER	I-30	030575, 030575

Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	491,283.6311	0.0010			
Easting (M)	212,141.7553	0.0010			
Elevation (M)*	108.274				
Northing (SFT)	1,611,819.7130				
Easting (SFT)	696,001.7422				
Elevation (SFT)*	355.228				

Convergence Angle	-1	7	52.5622712
Scale Factor	0.999966154		
Elevation Adjust. Factor	0.9999830086		
Combined Adjust. Factor	0.9999491632		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>"TO REACH THE STATION FROM THE TEXAS / ARKANSAS STATE LINE IN TEXARKANA, GO EAST ON I 30 FOR 1.30 MILES TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 8.8 METERS SOUTH OF THE EDGE OF THE WEST BOUND LANE, 7.45 METERS NORTH OF THE EDGE OF THE EAST BOUND LANE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED ""460027A RESET 2022"" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND."</p>			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	END OF GUARD RAIL POST	91		22.20	72.8
MK # 2					
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARCM</p> <p>Ref Mon # 2 ARDQ</p> <p>Ref Mon # 3 ARHP, TXMV</p>	<p style="text-align: center;">Comments</p> <p>ELEV. BASED ON TBM #902 FROM JOB #030477 WHICH WAS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BMs H 307, A 1497 & B 1497 BY S5112 IN SEPT. 2020 FOR JOB #030477</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430023	Date Monumented 6/6/2022	Monumented By AHTD S5101	County LONOKE	Route d Lonoke	Job Number: 061677, 061759
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	51,074.3690 0.0010
Easting (M)	394,614.5469 0.0010
Elevation (M)*	73.875

Northing (SFT)	167,566.4923	
Easting (SFT)	1,294,664.5593	
Elevation (SFT)*	242.370	

Convergence Angle	0	2	3.2704195
Scale Factor	1.000030391		
Elevation Adjust. Factor	0.9999884068		
Combined Adjust. Factor	1.0000187974		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

To reach from the intersection of Interstate 40 and South Kerr Road, Lonoke County Road Number 501 (Exit 165) , Lonoke County Arkansas. Travel North along South Kerr Road, Lonoke County Road Number 501, 0.15 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430023, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 28 ft. east of the centerline of South Kerr Road, Lonoke County Road Number 501 and 39 ft. South of the centerline of a gravel driveway leading East and 5 ft west of a 6 ft chainlink fence.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone Box	195	8.84	29.0
MK # 2	Power Pole	260	16.45	54.0
MK # 3	Light Pole	140	11.89	39.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHZ Ref Mon # 3 ARST	Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430023A	Date Monumented 6/6/2022	Monumented By AHTD S5101	County LONOKE	Route d Lonoke	Job Number: 061677 & 061759
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	51,549.1059 0.0010
Easting (M)	394,628.6662 0.0010
Elevation (M)*	

Northing (SFT)	169,124.0249	
Easting (SFT)	1,294,710.8824	
Elevation (SFT)*		

Convergence Angle	0	2	2.9537137
Scale Factor	1.000029372		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
to reach From the intersection of Interstate 40 and South Kerr Road, Lonoke County Road Number 501 (Exit 165) , Lonoke County Arkansas. Travel North along South Kerr Road, Lonoke County Road Number 501, 0.45 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430023A, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 29 ft. east of the centerline of South Kerr Road, Lonoke County Road Number 501 and 32 ft. North of the centerline of a gravel driveway entrance leading east to a field road.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Irrigation Well Head	95	10.36	34.0
MK # 2	North End of 18" Couragated Metal Pipe	200	5.79	19.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARHZ Ref Mon # 3 ARST	Comments Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430024	Date Monumented 6/26/2022	Monumented By AHTD S5101	County LONOKE	Route Interstate 4	Job Number: 061677 & 061759
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	51,511.7664	0.0010	
Easting (M)	397,505.0875	0.0010	
Elevation (M)*	71.308		
Northing (SFT)	169,001.5203		
Easting (SFT)	1,304,147.9412		
Elevation (SFT)*	233.950		

Convergence Angle	0	0	57.1101191
Scale Factor	1.000029450		
Elevation Adjust. Factor	0.9999888096		
Combined Adjust. Factor	1.0000182592		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	West end of a Guardrail	111	32.31	106.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARHZ Ref Mon # 3 ARST	Comments Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.
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Location Description			
To reach from The intersection of Interstate 40 and Arkansas State Highway 15 (Exit 169) , Lonoke County Arkansas. Travel West along Interstate 40, 1.9 miles to the station on the Left. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430024, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is in the center of the median 76 ft South of the South edge of the South sholder of Westbound Interstate 40 and 76 ft North of the North edge of the North sholder of Eastbound Interstate 40. 0.1 miles West of the West bridge end over Bayou Meto.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430024A	Date Monumented 6/26/2022	Monumented By AHTD S5101	County LONOKE	Route Interstate 4	Job Number: 061677 & 061759
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	51,721.2612 0.0010
Easting (M)	398,053.3026 0.0010
Elevation (M)*	73.255
Northing (SFT)	169,688.8378
Easting (SFT)	1,305,946.5436
Elevation (SFT)*	240.336

Convergence Angle	0 0 44.5621678
Scale Factor	1.000029002
Elevation Adjust. Factor	0.9999885041
Combined Adjust. Factor	1.0000175058

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARHZ Ref Mon # 3 ARST	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.</td> </tr> </table>	Comments	Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.
Comments			
Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.			

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	34 47 58.2982008
Longitude	92 1 16.5805716
Ellipsoid Height (M):	46.439 0.0050
Geoid Height (M):	-26.773 0.0000

Location Description
To reach from the intersection of Interstate 40 and Arkansas State Highway 15 (Exit 169) , Lonoke County Arkansas. Travel West along Interstate 40, 1.5 miles to the station on the Left. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430024A , 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is in the center of the median 75 ft South of the South edge of the South sholder of Westbound Interstate 40 and 75 ft North of the North edge of the North sholder of Eastbound Interstate 40. 0.2 miles East of the East bridge end over Bayou Meto.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350038A	Date Monumented 3/28/2024	Monumented By ARDOT	County JEFFERSON	Route 31	Job Number: 02X322
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD83 (2011)		
Northing (M)	584,521.2640	0.0010	
Easting (M)	403,595.6719	0.0010	
Elevation (M)*	64.277	0.0098	
Northing (SFT)	1,917,716.8470		
Easting (SFT)	1,324,130.1336		
Elevation (SFT)*	210.882		

Convergence Angle	0	1	18.7320133
Scale Factor	0.999931760		
Elevation Adjust. Factor	0.9999899129		
Combined Adjust. Factor	0.9999216736		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST END OF 18IN REINFORCED CONCRETE PIPE	4	7.00	23.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARSH	ELEVATION WAS EST. BY HOLDING STATIC DERIVED ELEV ON GPS 350038 THEN 3WR LEVELS WERE RAN TO GPS 350038A DURING JOB 02X322 BY CREW S5102 IN MARCH 2024.
Ref Mon # 2 ARPB	
Ref Mon # 3 ARST	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350039	Date Monumented 3/26/2024	Monumented By ARDOT	County JEFFERSON	Route 190	Job Number: 02X323
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD83 (2011)
Northing (M)	571,809.6597 0.0010
Easting (M)	392,018.4143 0.0010
Elevation (M)*	71.829 0.0024
Northing (SFT)	1,876,012.1919
Easting (SFT)	1,286,147.0809
Elevation (SFT)*	235.657

Convergence Angle	0 2 54.5318761
Scale Factor	0.999923455
Elevation Adjust. Factor	0.9999887279
Combined Adjust. Factor	0.9999121838

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	28	16.00	52.5
MK # 2	NORTH END OF 24IN CORRUGATED METAL	272	31.00	101.7
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARSH Ref Mon # 2 ARPB Ref Mon # 3 ARST	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV EST BY HOLDING THE STATIC DERIVED ELEV OF GPS 350039A 3WR LEVELS WERE RAN TO 350039 DURING JOB 02X323 BY CREW S5102 IN MARCH 2024.</td> </tr> </table>	Comments	ELEV EST BY HOLDING THE STATIC DERIVED ELEV OF GPS 350039A 3WR LEVELS WERE RAN TO 350039 DURING JOB 02X323 BY CREW S5102 IN MARCH 2024.
Comments			
ELEV EST BY HOLDING THE STATIC DERIVED ELEV OF GPS 350039A 3WR LEVELS WERE RAN TO 350039 DURING JOB 02X323 BY CREW S5102 IN MARCH 2024.			

Location Description
TO REACH FROM THE INTERSECTION OF HIGHWAY 190 AND I-530 IN PINE BLUFF, JEFFERSON COUNTY, TRAVEL WEST ALONG HIGHWAY 190 FOR 0.9 MILES TO THE STATION ON THE RIGHT (NORTH) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 350039, 2024 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 16FT SOUTH OF A WITNESS POST, 23FT NORTH OF THE CENTERLINE OF HIGHWAY 190, AND 17FT SOUTH OF PRISON FENCE.

AZ Mark Station	350039A
Geodetic Azimuth	88 39 46.3
Grid Azimuth	88 42 36.7

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350039A	Date Monumented 3/26/2024	Monumented By ARDOT	County JEFFERSON	Route 190	Job Number: 02X323
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD83 (2011)				
Northing (M)	571,818.0785	0.0010			
Easting (M)	392,392.3422	0.0010			
Elevation (M)*	71.659	0.0000			
Northing (SFT)	1,876,039.8125				
Easting (SFT)	1,287,373.8760				
Elevation (SFT)*	235.101				

Convergence Angle	0	2	46.3554144
Scale Factor	0.999923460		
Elevation Adjust. Factor	0.9999887545		
Combined Adjust. Factor	0.9999122154		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
TO REACH FROM THE INTERSECTION OF HIGHWAY 190 AND I-530 IN PINE BLUFF, JEFFERSON COUNTY, TRAVEL WEST ALONG HIGHWAY 190 FOR 0.6 MILES TO THE STATION ON THE RIGHT (NORTH) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 350039A, 2024 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 12FT SOUTHEAST OF A WITNESS POST AND 23FT NORTH OF THE CENTERLINE OF HIGHWAY 190.			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	METAL BOX		232	9.00	29.5
MK # 2	FENCE CORNER		120	4.00	13.1
MK # 3	POWER POLE		327	16.00	52.5

Area Reference Monuments (used for Processing) Ref Mon # 1 ARSH Ref Mon # 2 ARPB Ref Mon # 3 ARST	Comments ELEV EST BY STATIC OBS HOLDING AN OFFSET ELEV RAN FROM NGS BM P 80 DURING JOB 02X323 BY CREW S5102 IN MARCH 2024.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270028	Date Monumented 3/20/2024	Monumented By ARDOT	County GRANT	Route 35	Job Number: 02X324
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD83 (2011)		
Northing (M)	573,037.4908	0.0010	
Easting (M)	364,328.4206	0.0010	
Elevation (M)*	68.340		
Northing (SFT)	1,880,040.5011		
Easting (SFT)	1,195,300.8266		
Elevation (SFT)*	224.212		

Convergence Angle	0	13	0.1219170
Scale Factor	0.999924050		
Elevation Adjust. Factor	0.9999892753		
Combined Adjust. Factor	0.9999133262		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF WOODLAND ACRES SIGN	222	27.00	88.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS	ELEV WAS EST. BY RUNNING DIGITAL LEVELS FROM STATIC DIRIVED GPS PN 270028A BY CREW S5102 DURING JOB 02X324 IN MARCH 2024.
Ref Mon # 2 ARLR	
Ref Mon # 3 ARPB	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	34 13 34.2597072
Longitude	92 23 13.8447348
Ellipsoid Height (M):	42.275 0.0070
Geoid Height (M):	-26.069

Location Description
<p>TO REACH FROM THE INTERSECTION OF IGHWAY 35 AND HIGHWAY 167, NEAR SHERIDAN, GRANT COUNTY, TRAVEL EAST ON HIGHWAY 35 FOR 1.2 MILES TO THE STATION ON THE LEFT (NORTH) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 270028, 2024 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8 IN REBAR 4FT IN LENGTH. THE STATION IS 48FT NORTHWEST OF THE CENTERLINE OF HIGHWAY 35 AND 40FT SOUTHWEST OF THE CENTERLINE OF COUNTY ROAD GRANT 3552.</p>

AZ Mark Station	270028A
Geodetic Azimuth	61 38 06.4
Grid Azimuth	61 51 02.7

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 270028A	Date Monumented 3/20/2024	Monumented By ARDOT	County GRANT	Route 35	Job Number: 02X324
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD83 (2011)
Northing (M)	573,226.0940 0.0010
Easting (M)	364,680.9135 0.0010
Elevation (M)*	64.015
Northing (SFT)	1,880,659.2767
Easting (SFT)	1,196,457.2970
Elevation (SFT)*	210.024

Convergence Angle	0 12 52.4285706
Scale Factor	0.999924150
Elevation Adjust. Factor	0.9999899540
Combined Adjust. Factor	0.9999141048

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	61	24.00	78.7
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS Ref Mon # 2 ARLR Ref Mon # 3 ARPB	ELEV WAS EST. BY STATIC OBS HOLDING ELEV OF AN OFFSET FROM NGS BM P 80 BY CREW S5102 DURING JOB 02X324 IN MARCH 2024.

Location Description			
TO REACH FROM THE INTERSECTION OF HIGHWAY 35 AND HIGHWAY 167, NEAR SHERIDAN, GRANT COUNTY, TRAVEL EAST ALONG HIGHWAY 35 FOR 1.4 MILE TO THE STATION ON THE LEFT (SOUTH) SIDE OF THE ROAD. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 270028A, 2024 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 32FT SOUTHEAST OF THE CENTERLINE OF HIGHWAY 35 AND 9FT NW OF A WITNESS POST.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690013	Date Monumented 4/15/2024	Monumented By ARDOT	County STONE	Route 5	Job Number: 05X300
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	193,884.8094	0.0020	
Easting (M)	386,515.7302	0.0020	
Elevation (M)*			
Northing (SFT)	636,103.7455		
Easting (SFT)	1,268,093.6915		
Elevation (SFT)*			

Convergence Angle	0	5	13.6184140
Scale Factor	0.999973411		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	18" PINE TREE	106	12.70	41.7		
MK # 2	18" CORROGATED METAL PIPE	231	6.20	20.3		
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	STATIC DERIVED ELEV. 604.4909 US FT IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARHR & ARR V
Ref Mon # 2 ARHR	
Ref Mon # 3 ARR V	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690013A	Date Monumented 4/15/2024	Monumented By ARDOT	County STONE	Route 5	Job Number: 05X300
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	193,477.4064 0.0020
Easting (M)	386,488.3144 0.0020
Elevation (M)*	

Northing (SFT)	634,767.1242	
Easting (SFT)	1,268,003.7448	
Elevation (SFT)*		

Convergence Angle	0	5	14.2416154
Scale Factor	0.999972858		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

To reach from the intersection of Hwy 5, Hwy. 9, and Hwy 14 in Allison, go North on Hwy 5 for 13.1 miles to the station on the Right/East. The station is 19.3 ft. East of the centerline of Hwy. 5, and 19.0 ft. North of the center of gravel driveway. The station mark is a standard 2 1/2 in. cap stamped "690013A 2024" and set on top of a 5/8 in. by 4 ft. rebar and driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH BRICK DRIVEWAY LIGHT PILLAR	109	7.80	25.6
MK # 2				
MK # 3				

AZ Mark Station	690013
Geodetic Azimuth	
Grid Azimuth	

**Area Reference Monuments
(used for Processing)**

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV

Comments

ELEV. 573.5069 US FT IS BASED ON DIGITAL LEVELS FROM GPS # 690013 WHOSE ELEV. IS STATIC DERIVED. STATIC DERIVED ELEV. TO 690013A IS 573.5287 US FT.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690014	Date Monumented 4/17/2024	Monumented By ARDOT	County STONE	Route 9	Job Number: 05X297
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	161,155.1822 0.0010
Easting (M)	380,782.8318 0.0010
Elevation (M)*	
Northing (SFT)	528,723.2936
Easting (SFT)	1,249,285.0073
Elevation (SFT)*	

Convergence Angle	0 7 25.3109135
Scale Factor	0.999942099
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
<p>To reach from the intersection of Hwy 9 and Hwy. 263 North of Rushing, go North on Hwy. 9 for 4.4 miles to Oliver Rd. on the Right/South. Take Oliver Rd. for 0.1 miles to the station on the Left/East. The station is 37.1 ft. East of the center of Oliver Rd., and 11.3 ft. South of a dirt field entrance. The station mark is a standard 2 1/2in. aluminium cap stamped "690014 2024" and set on top of a 5/8in. rebar driven 0.10in. below the surface.</p>	

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	197	15.60	51.2	690014A
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	STATIC DERIVED ELEV. 1021.4307 US FT IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARHR & ARR V
Ref Mon # 2 ARHR	
Ref Mon # 3 ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 690014A	Date Monumented 4/17/2024	Monumented By ARDOT	County STONE	Route 9	Job Number: 05X297
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	160,904.3160	0.0010	
Easting (M)	380,739.8998	0.0010	
Elevation (M)*			
Northing (SFT)	527,900.2434		
Easting (SFT)	1,249,144.1546		
Elevation (SFT)*			

Convergence Angle	0	7	26.2931762
Scale Factor	0.999941961		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach from the intersection of Hwy 9 and Hwy. 263 North of Rushing, go North on Hwy. 9 for 4.4 miles to Oliver Rd. on the Right/South. Take Oliver Rd. for 0.25 miles to the station on the Right/South. The station is 24.0 ft. South of the center of Oliver Rd., and 24.0 ft. East of a dirt powerline road. The station mark is a standard 2 1/2in. aluminium cap stamped "690014A 2024" and set on top of a 5/8in. rebar driven 0.10in. below the surface.</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	POWER POLE	201	7.00	23.0	690014
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)		Comments ELEV. 983.4887 US FT IS BASED ON DIGITAL LEVELS FROM GPS # 690014 WHOSE ELEV. IS STATIC DERIVED. STATIC DERIVED ELEV. TO 690014A IS 983.5046 US FT.
Ref Mon # 1	ARBT	
Ref Mon # 2	ARHR	
Ref Mon # 3	ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730044	Date Monumented 4/3/2024	Monumented By ARDOT	County WHITE	Route 167	Job Number: 11X044
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD83 (2011)		
Northing (M)	79,213.2649	0.0010	
Easting (M)	404,691.5743	0.0010	
Elevation (M)*	69.483		
Northing (SFT)	259,885.5199		
Easting (SFT)	1,327,725.6067		
Elevation (SFT)*	227.962		

Convergence Angle	0	1	47.7242539
Scale Factor	0.999979548		
Elevation Adjust. Factor	0.9999890960		
Combined Adjust. Factor	0.9999686442		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	SW BRIDGE CORNER		95		6.70	22.0
MK # 2	SE BRIDGE CORNER		344		7.62	25.0
MK # 3						

Area Reference Monuments (used for Processing) Ref Mon # 1 ARSC Ref Mon # 2 ARCW Ref Mon # 3 ARHZ	Comments ELEV WAS EST BY STATIC OBS HOLDING NGS BM 18 BLS BY CREW S5101 DURING JOB 11X044 IN APRIL 2024.
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	35 2 50.3842524
Longitude	91 56 54.8746944
Ellipsoid Height (M):	42.166 0.0070
Geoid Height (M):	-27.317

Location Description
From the intersection of U. S. Hwy 167 and Arkansas State Highway 319 (North Street) on the West Side of Ward, Lonoke County Arkansas, travel North East along State Highway 167 for 1.1 miles to the station on the Left. The Station is a standard 2.5 inch AHTD GPS cap stamped 730044 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 26 feet (7.92 Meters) East of the back of curb of U. S. Highway 167 South bound, 24 feet (7.31 Meters) West of the back of curb of U. S. Highway 167 North bound and 8 feet (2.44 Meters) South of a witness post.

AZ Mark Station	730044A
Geodetic Azimuth	50 24 33.2
Grid Azimuth	50 22 41.3

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730044A	Date Monumented 4/3/2024	Monumented By ARDOT	County WHITE	Route 167	Job Number: 11X044
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD83 (2011)
Northing (M)	79,515.5146 0.0010
Easting (M)	405,056.6479 0.0010
Elevation (M)*	68.036
Northing (SFT)	260,877.1508
Easting (SFT)	1,328,923.3523
Elevation (SFT)*	223.216

Convergence Angle	0 1 56.1106924
Scale Factor	0.999979107
Elevation Adjust. Factor	0.9999893230
Combined Adjust. Factor	0.9999684302

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	Drop Inlet	228	39.62 130.0
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARSC	ELEV WAS EST BY DIGITAL LEVELS FROM GPS 730044 BY CREW S5101 DURING JOB 11X044 IN APRIL 2024.
Ref Mon # 2 ARCW	
Ref Mon # 3 ARHZ	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	35 3 0.1858896
Longitude	91 56 40.4625084
Ellipsoid Height (M):	40.721 0.0070
Geoid Height (M):	-27.318

Location Description
<p>From the intersection of U. S. Hwy 167 and Arkansas State Highway 319 (North Street) on the West Side of Ward, Lonoke County Arkansas, travel North East along State Highway 167 for 1.4 miles to the station on the Left. The Station is a standard 2.5 inch AHTD GPS cap stamped 730044 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 36 feet (10.97 Meters) West of the back of West edge of pavement of U. S. Highway 167 North bound, 18 feet (5.48 Meters) East of the East edge of pavement of U. S. Highway 167 North bound and 27 feet (8.23 Meters) West of a witness post.</p>

AZ Mark Station	730044
Geodetic Azimuth	230 24 33.2
Grid Azimuth	230 22 41.3

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110025	Date Monumented 3/13/2024	Monumented By ARDOT	County CLAY	Route 141	Job Number: 10X543
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD83 (2011)		
Northing (M)	218,408.4554	0.0020	
Easting (M)	539,804.7556	0.0010	
Elevation (M)*	94.188	0.0112	
Northing (SFT)	716,561.7408		
Easting (SFT)	1,771,009.4357		
Elevation (SFT)*	309.014		

Convergence Angle	0	54	20.3394856
Scale Factor	1.000012123		
Elevation Adjust. Factor	0.9999852191		
Combined Adjust. Factor	0.9999973419		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	0	13.00	42.7
MK # 2	Center Line	90	42.00	137.8
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG Ref Mon # 2 MODP Ref Mon # 3 MOKE	ELEV WAS EST BY HOLDING STATIC DERIVED ELEV AT GPS 110025A AND RUNNING DIGITAL LEVELS TO GPS 110025. BY CREW S5101 IN MARCH, 2024 DURING JOB 10X543.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 110025A	Date Monumented 3/13/2024	Monumented By ARDOT	County CLAY	Route 141	Job Number: 10X543
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD83 (2011)				
Northing (M)	218,405.9812	0.0020			
Easting (M)	539,399.9135	0.0010			
Elevation (M)*	91.595	0.0000			
Northing (SFT)	716,553.6233				
Easting (SFT)	1,769,681.2162				
Elevation (SFT)*	300.507				

Convergence Angle	0	54	10.8989566		
Scale Factor	1.000012131				
Elevation Adjust. Factor	0.9999856260				
Combined Adjust. Factor	0.9999977568				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>From the intersection of Hwy 135 and Highway 141 just North West of Lefe, Clay County Arkansas, travel North East along State Highway 141 for 8.0 miles to county road 276 on the left then travel .20 of a mile to the station on the left. The Station is a standard 2.5 inch AHTD GPS cap stamped 110025A (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is South of the centerline of Clay county road 276 and 5 feet (1.52 meters) North of a witness post.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Power Pole		110	31.00	101.7
MK # 2	Well Head		220	47.00	154.2
MK # 3	Fence Corner		275	52.00	170.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG Ref Mon # 2 MODP Ref Mon # 3 MOKE	ELEV WAS EST BY STATIC OBS HOLDING NGS BM A 190. BY CREW S5101 IN MARCH, 2024 DURING JOB 10X543.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160048A	Date Monumented 3/6/2024	Monumented By ARDOT	County Craighead	Route 139	Job Number: 10X561
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD83 (2011)
Northing (M)	159,393.4844 0.0020
Easting (M)	549,939.9532 0.0010
Elevation (M)*	68.590 0.0000
Northing (SFT)	522,943.4567
Easting (SFT)	1,804,261.3298
Elevation (SFT)*	225.031

Convergence Angle	0 57 53.4815110
Scale Factor	0.999940554
Elevation Adjust. Factor	0.9999892362
Combined Adjust. Factor	0.9999297908

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination Pole	100	5.49	18.0
MK # 2	Fire Hydrant			
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	ELEV WAS EST BY HOLDING STATIC DERIVED ELEV AT GPS 160048 AND RUNNING DIGITAL LEVELS TO 160048A. BY CREW S5101 DURING JOB 10X561 IN MARCH 2024.
Ref Mon # 2 AROC	
Ref Mon # 3 ARWM	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	35 45 31.2521364
Longitude	90 20 30.7841280
Ellipsoid Height (M):	40.670 0.0120
Geoid Height (M):	-27.917

Location Description
<p>From the intersection of Arkansas State Highway 18 and Arkansas State Highway 139 near Black Oak, Craighead County Arkansas, travel South along State Highway 139 for 6.9 miles to the station on the Right. The Station is a standard 2.5 inch AHTD GPS cap stamped 160048A (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 37 feet (11.28 Meters) South of the centerline of Arkansas State Highway 139 and 2 feet (.60 Meters) North of a witness post.</p>

AZ Mark Station	160048
Geodetic Azimuth	88 39 32.4
Grid Azimuth	87 41 33.1

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160048	Date Monumented 3/6/2024	Monumented By ARDOT	County Craighead	Route 158	Job Number: 10X561
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD83 (2011)		
Northing (M)	159,413.8017	0.0020	
Easting (M)	550,444.1668	0.0010	
Elevation (M)*	68.168	0.0000	
Northing (SFT)	523,010.1144		
Easting (SFT)	1,805,915.5706		
Elevation (SFT)*	223.648		

Convergence Angle	0	58	5.1677658
Scale Factor	0.999940559		
Elevation Adjust. Factor	0.9999893023		
Combined Adjust. Factor	0.9999298620		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fire Hydrant	276	9.14	30.0
MK # 2	Telephone Box	95	33.95	111.4
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARJB Ref Mon # 2 AROC Ref Mon # 3 ARWM	Comments ELEV WAS EST BY STATIC OBS HOLDING NGS BM W 314. BY CREW S5101 DURING JOB 10X561 IN MARCH 2024.
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Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	35 45 31.6353312
Longitude	90 20 10.7011716
Ellipsoid Height (M):	40.253 0.0120
Geoid Height (M):	-27.915

Location Description
From the intersection of Arkansas State Highway 18 and Arkansas State Highway 139 near Black Oak, Craighead County Arkansas, travel South along State Highway 139 for 7.0 miles to the intersection of Arkansas State Highway 158 (West State Street) on the left then continue along Arkansas State Highway 158 (West State Street) to the station on the Left. The Station is a standard 2.5 inch AHTD GPS cap stamped 160048 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 53 feet (16.15 Meters) North of the centerline of Arkansas State Highway 158 (West State Street) and 2 feet (.60 Meters) South of a witness post.

AZ Mark Station	160048A
Geodetic Azimuth	268 39 32.4
Grid Azimuth	267 41 33.1

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470038	Date Monumented 2/27/2024	Monumented By ARDOT	County Mississippi	Route I-55	Job Number: 10X739
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD83 (2011)
Northing (M)	159,883.9503 0.0010
Easting (M)	580,000.7299 0.0010
Elevation (M)*	72.036 0.0040
Northing (SFT)	524,552.5936
Easting (SFT)	1,902,885.7280
Elevation (SFT)*	236.337

Convergence Angle	1 9 29.9197517
Scale Factor	0.999940522
Elevation Adjust. Factor	0.9999886954
Combined Adjust. Factor	0.9999292180

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:		GPS - Unknown Quality	
Elevation Datum:		NAVD 88	
Geoid Datum:		GEOID18	
Latitude	35 45 29.0925360		
Longitude	90 0 33.9474132		
Ellipsoid Height (M):	44.247 0.0060		
Geoid Height (M):	-27.784		

Location Description
<p>From the intersection of U. S. Interstate 55 and Arkansas State Highway 158 near Victoria in Mississippi County Arkansas, travel North along U. S. Interstate 55, 0.15 miles to the station on the Left. The Station is a standard 2.5 inch AHTD GPS cap stamped 470038 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 30 feet (9.14 Meters) West of the West edge of the Pavement of North bound U. S. Interstate 55, The station is 15 feet (4.57 Meters) East of the East edge of the Pavement of South bound U. S. Interstate 55 and 3 feet (0.91 Meters) West of a witness post.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AROC Ref Mon # 2 ARJB Ref Mon # 3 MOKE	ELEV WAS EST BY HOLDING STATIC DERIVED ELEV AT GPS 470038A AND RUNNING DIGITAL LEVELS TO 470038.BY CREW S5101 DURING JOB 10X739 IN FEB 2024.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470038A	Date Monumented 2/27/2024	Monumented By ARDOT	County Mississippi	Route I 55	Job Number: 10X739
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD83 (2011)
Northing (M)	159,445.3974 0.0010
Easting (M)	579,767.3088 0.0010
Elevation (M)*	72.119 0.0000
Northing (SFT)	523,113.7746
Easting (SFT)	1,902,119.9123
Elevation (SFT)*	236.610

Convergence Angle	1 9 24.3086747
Scale Factor	0.999940318
Elevation Adjust. Factor	0.9999886823
Combined Adjust. Factor	0.9999290010

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	35 45 15.0184260
Longitude	90 0 43.5901104
Ellipsoid Height (M):	44.339 0.0060
Geoid Height (M):	-27.780

Location Description
<p>From the intersection of U. S. Interstate 55 and Arkansas State Highway 158 near Victoria in Mississippi County Arkansas, travel South along U. S. Interstate 55, 0.15 miles to the station on the Left. The Station is a standard 2.5 inch AHTD GPS cap stamped 470038A (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 10 feet (3.04 Meters) East of the East edge of the Pavement of South bound U. S. Interstate 55, The station is 35 feet (10.67 Meters) West of the West edge of the Pavement of North bound U. S. Interstate 55 and 3 feet (0.91 Meters) West of a witness post.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 AROC Ref Mon # 2 ARJB Ref Mon # 3 MOKE	ELEV WAS EST BY STATIC OBS HOLDING NGS BM F 214.BY CREW S5101 DURING JOB 10X739 IN FEB 2024.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730045	Date Monumented 4/29/2024	Monumented By ARDOT	County WHITE	Route 367S	Job Number: C73017
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	82,725.4655	0.0020	
Easting (M)	409,099.6452	0.0020	
Elevation (M)*	80.818		
Northing (SFT)	271,408.4647		
Easting (SFT)	1,342,187.7526		
Elevation (SFT)*	265.152		

Convergence Angle	0	3	29.0205952
Scale Factor	0.999974566		
Elevation Adjust. Factor	0.9999873171		
Combined Adjust. Factor	0.9999618835		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	CENTER OF DROPINLET	170	8.40	27.6	730045A
MK # 2	SOUTHEAST CORNER OF OVERPASS	270	2.20	7.2	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	ELEV. IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BM 18 BLS BY CREW S5103 IN MAY 2024 FOR JOB # C73017
Ref Mon # 2 ARCW	
Ref Mon # 3 ARHZ, ARLR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730045A	Date Monumented 4/29/2024	Monumented By ARDOT	County WHITE	Route 367S	Job Number: C73017
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	82,357.4324	0.0020			
Easting (M)	409,184.2953	0.0020			
Elevation (M)*	74.044				
Northing (SFT)	270,201.0095				
Easting (SFT)	1,342,465.4755				
Elevation (SFT)*	242.925				

Convergence Angle	0	3	30.9563774
Scale Factor	0.999975075		
Elevation Adjust. Factor	0.9999883802		
Combined Adjust. Factor	0.9999634555		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER OF BRICKWALL	250	14.60	47.9
MK # 2	CENTER OF MANHOLE	266	7.50	24.6
MK # 3	CENTER OF MANHOLE	100	4.20	13.8

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARCW Ref Mon # 3 ARHZ, ARLR	ELEV. IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BM 18 BLS BY CREW S5103 IN MAY 2024 FOR JOB # C73017

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720075	Date Monumented 4/17/2024	Monumented By AHTD	County WASHINGTON	Route 170	Job Number: 04X380
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD83 (2011)				
Northing (M)	163,079.9073	0.0010			
Easting (M)	196,632.2765	0.0010			
Elevation (M)*	317.258				
Northing (SFT)	535,037.9959				
Easting (SFT)	645,117.7272				
Elevation (SFT)*	1,040.872				

Convergence Angle	-1	18	32.7563274
Scale Factor	0.999941892		
Elevation Adjust. Factor	0.9999502143		
Combined Adjust. Factor	0.9998921092		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	5X5 CONC R/W MARKER	40	12.00	39.4
MK # 2	NORTHWEST CORNER OF LEE CREEK BRID	310	37.00	121.4
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFS	ELEV WAS EST BY DIGITAL LEVELS FROM STATIC DERIVED ELEV ON GPS 720075A BY S5102 DURING JOB 04X380 IN APRIL 2024.
Ref Mon # 2 ARFY	
Ref Mon # 3 AROZ	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	35 46 56.4450960
Longitude	94 14 58.9231644
Ellipsoid Height (M):	288.922 0.0080
Geoid Height (M):	-28.358

Location Description
<p>TO REACH FROM THE INTERSECTION OF HIGHWAY 170 AND HIGHWAY 220 (LEE CREEK RD) IN WASHINGTON COUNTY TRAVEL EAST ALONG HIGHWAY 170 FOR 0.8 MILES TO THE STATION ON THE RIGHT SIDE OF THE ROAD. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOR GPS CAP STAMPED 720075, 2024 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 24FT SOUTHWEST OF THE CENTER OF HIGHWAY 170, 83FT SOUTHEAST OF THE NORTHEAST END OF A 24IN REINFORCED CONCRET PIPE THAT RUNS UNDER HIGHWAY 170, AND 28FT NORTHWEST OF A DRIVEWAY THAT LEADS TO A PARKING LOT FOR A HIKING TRAIL.</p>

AZ Mark Station	720075A
Geodetic Azimuth	223 19 14.1
Grid Azimuth	224 37 48.1

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720075A	Date Monumented 4/17/2024	Monumented By AHTD	County WASHINGTON	Route 170	Job Number: 04X380
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD83 (2011)
Northing (M)	162,965.1597 0.0010
Easting (M)	196,519.0012 0.0010
Elevation (M)*	309.258

Northing (SFT)	534,661.5281
Easting (SFT)	644,746.0898
Elevation (SFT)*	1,014.625

Convergence Angle	-1 18 35.3196285
Scale Factor	0.999941829
Elevation Adjust. Factor	0.9999514696
Combined Adjust. Factor	0.9998933015

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST END OF A 36IN RCP	270	21.00	68.9
MK # 2	NORTHEAST END OF THE ROOF PEAK OF A	30	73.00	239.5
MK # 3	NORTH ROCK CANYON			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFS Ref Mon # 2 ARFY Ref Mon # 3 AROZ	ELEV WAS EST BY STATIC OBS HOLDING AN OFFSET FROM NGS BM U 312 BY S5102 DURING JOB 04X380 IN APRIL 2024.

Location Description	
TO REACH FROM THE INTERSECTION OF HIGHWAY 170 AND HIGHWAY 220 (LEE CREEK RD) IN WASHINGTON COUNTY, TRAVEL EAST ALONG HIGHWAY 170 FOR 0.9 MILES TO THE STATION ON THE RIGHT SIDE OF THE ROAD. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 720075A, 2024 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 72.5FT NORTHWEST OF THE CENTER OF HIGHWAY AND 31FT EAST SOUTHEAST OF THE EDGE OF LEE CREEK.	

AZ Mark Station	720075
Geodetic Azimuth	43 19 14.1
Grid Azimuth	44 37 48.1

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130025	Date Monumented 3/18/2024	Monumented By ARDOT	County CLEVELAND	Route 35	Job Number: 07X281, 070622
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD83 (2011)
Northing (M)	543,219.6909 0.0010
Easting (M)	381,361.1186 0.0010
Elevation (M)*	70.916
Northing (SFT)	1,782,213.2692
Easting (SFT)	1,251,182.2699
Elevation (SFT)*	232.662

Convergence Angle	0 6 46.3409964
Scale Factor	0.999919359
Elevation Adjust. Factor	0.9999888712
Combined Adjust. Factor	0.9999082311

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	DOLLAR GENERAL SIGN	220	36.00	118.1
MK # 2	SW CORNER OF DOLLAR GENERAL	293	49.00	160.8
MK # 3	CENTER OF METAL WELCOME TO RISON SIGN	3	27.00	88.6

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 ARPB Ref Mon # 3 ARMO	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV WAS EST BY STATIC OBS HOLDING AN OFFSET FROM NGS BM RV 184 BY CREW S5102 DURING JOB 07X281 IN MARCH 2024.</td> </tr> </table>	Comments	ELEV WAS EST BY STATIC OBS HOLDING AN OFFSET FROM NGS BM RV 184 BY CREW S5102 DURING JOB 07X281 IN MARCH 2024.
Comments			
ELEV WAS EST BY STATIC OBS HOLDING AN OFFSET FROM NGS BM RV 184 BY CREW S5102 DURING JOB 07X281 IN MARCH 2024.			

Location Description
THE STATION IS ON THE NORTHEAST CORNER OF THE INTERSECTION OF HIGHWAY 35 AND HIGHWAY 79 IN RISON, CLEVELAND COUNTY, ARKANSAS. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 130025, 2024 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 43FT NORTH-NORTHEAST OF THE CENTERLINE OF HIGHWAY 35 AND 83FT EAST-SOUTHEAST OF THE CENTERLINE OF HIGHWAY 79, IN FRONT OF A DOLLAR GENERAL.

AZ Mark Station	130025A
Geodetic Azimuth	288 30 02
Grid Azimuth	288 36 53.6

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 130025A	Date Monumented 3/18/2024	Monumented By ARDOT	County CLEVELAND	Route 35	Job Number: 07X281, 070622
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD83 (2011)
Northing (M)	543,382.3799 0.0010
Easting (M)	380,878.1136 0.0010
Elevation (M)*	56.509
Northing (SFT)	1,782,747.0247
Easting (SFT)	1,249,597.6110
Elevation (SFT)*	185.396

Convergence Angle	0 6 56.8779923
Scale Factor	0.999919326
Elevation Adjust. Factor	0.9999911320
Combined Adjust. Factor	0.9999104587

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	308	19.00	62.3
MK # 2	POWER POLE	108	29.00	95.1
MK # 3	CENTER OF 2 10FT GATES	144	36.00	118.1

Area Reference Monuments (used for Processing) Ref Mon # 1 ARFY Ref Mon # 2 ARPB Ref Mon # 3 ARMO	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV WAS EST BY RUNNING DIGITAL LEVELS FROM GPS 130025 BY CREW S5102 DURING JOB 07X281 IN MARCH 2024.</td> </tr> </table>	Comments	ELEV WAS EST BY RUNNING DIGITAL LEVELS FROM GPS 130025 BY CREW S5102 DURING JOB 07X281 IN MARCH 2024.
Comments			
ELEV WAS EST BY RUNNING DIGITAL LEVELS FROM GPS 130025 BY CREW S5102 DURING JOB 07X281 IN MARCH 2024.			

Location Description
TO REACH FROM THE INTERSECTION OF HIGHWAY 35 AND HIGHWAY 79 IN RISON, CLEVELAND COUNTY, ARKANSAS, TRAVEL WEST ALONG HIGHWAY 35 FOR 0.2 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 130025A, 2024 SET JUST BELOW GROUND SURFACE ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 36FT NORTHEAST OF A WITNESS POST AND 17FT SOUTHWEST OF THE CENTERLINE OF HIGHWAY 35.

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	33 57 33.2990784
Longitude	92 12 24.8363928
Ellipsoid Height (M):	30.657 0.0030
Geoid Height (M):	-25.846

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040136	Date Monumented 4/23/2024	Monumented By ARDOT	County BENTON	Route 43	Job Number: 09X493
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD83 (2011)				
Northing (M)	232,953.5419	0.0030			
Easting (M)	166,632.1926	0.0030			
Elevation (M)*	314.024				
Northing (SFT)	764,281.7454				
Easting (SFT)	546,692.4519				
Elevation (SFT)*	1,030.259				

Convergence Angle	-1	30	50.4422055		
Scale Factor	1.000038505				
Elevation Adjust. Factor	0.9999507219				
Combined Adjust. Factor	0.9999892250				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH FROM THE INTERSECTION OF HIGHWAY 43 AND HIGHWAY 72 IN MAYSVILLE, BENTON COUNTY, TRAVEL NORTH ALONG HIGHWAY 43 FOR 0.1 MILES TO THE STATION ON THE LEFT SIDE OF THE ROAD. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 040136, 2024 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 53FT WEST OF THE CENTERLINE OF HIGHWAY 43, 47FT NORTH OF THE CENTER OF THE DRIVEWAY TO THE MAYSVILLE FIRE STATION, AND 70FT SOUTH OF THE CENTER OF WESTSIDE ROAD.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	POWER POLE		358	24.00	78.7
MK # 2	SOUTH END OF A 18IN CORRUGATED MET AL PIPE THAT RUNS UNDER WESTSIDE RD		220	20.00	65.6
MK # 3	NORTHEAST CORNER OF THE MAYSVILLE FIRE DEPARTMENT STATION		88	37.00	121.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 CTA1 Ref Mon # 3	ELEV WAS EST BY STATIC OBS HOLDING AN OFFSET RAN FROM NGS BM Q34 BY CREW S5102 DURING JOB 09X493 IN APRIL 2024.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 040136A	Date Monumented 4/23/2024	Monumented By ARDOT	County BENTON	Route 43	Job Number: 09X493
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD83 (2011)				
Northing (M)	233,221.8173	0.0030			
Easting (M)	166,773.3910	0.0030			
Elevation (M)*	319.616				

Northing (SFT)	765,161.9123				
Easting (SFT)	547,155.7003				
Elevation (SFT)*	1,048.608				

Convergence Angle	-1	30	47.3114006		
Scale Factor	1.000039120				
Elevation Adjust. Factor	0.9999498443				
Combined Adjust. Factor	0.9999889623				

SUPERCEDED CONTROL

Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 43 AND HIGHWAY 72 IN MAYSVILLE , BENTON COUNTY, TRAVEL NORTH ALONG HIGHWAY 43 FOR 0.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 040136A, 2024 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A REBAR 4FT IN LENGTH. THE STATION IS 43FT EAST OF THE CENTERLINE OF HIGHWAY 43 AND 30FT NORTH OF THE CENTER OF THE DRIVEWAY TO MAYSVILLE MISSIONARY BAPTIST CHURCH.

Location Reference Marks

Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	CENTER OF THE DOUBLE DOORS TO MAYSVILLE MISSIONARY BAPTIST CHURCH	240	28.00	91.9		040136
MK # 2	WEST SIGN POST FOR MAYSVILLE MISSIONARY BAPTIST CHURCH	195	11.00	36.1		206 14 42.4
MK # 3	NORTH END OF A 18IN CORRUGATED METAL PIPE THAT RUNS UNDER THE DRIVEWAY	77	6.00	19.7		207 45 31.3

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARFY	ELEV WAS EST BY DIGITAL LEVELS FROM GPS 040136 BY CREW S5102 DURING JOB 09X493 IN APRIL 2024.
Ref Mon # 2	CTA1	
Ref Mon # 3		

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380024	Date Monumented 5/13/2024	Monumented By ARDOT	County LAWRENCE	Route 62/412	Job Number: 101188
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD83 (2011)
Northing (M)	201,781.2278 0.0010
Easting (M)	475,591.2895 0.0010
Elevation (M)*	110.636 0.0023
Northing (SFT)	662,010.5782
Easting (SFT)	1,560,335.7556
Elevation (SFT)*	362.979

Convergence Angle	0 29 19.6347709
Scale Factor	0.999984451
Elevation Adjust. Factor	0.9999826379
Combined Adjust. Factor	0.9999670892

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	South East Corner of Ditch Paving	180	11.58	38.0
MK # 2	Combination Pole	354	27.13	89.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARJB Ref Mon # 2 ARPG Ref Mon # 3 ARHL, ARBT	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS Y 315 AND Z 315 BY CREW S5101 DURING JOB 101188 IN MAY 2024.</td> </tr> </table>	Comments	ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS Y 315 AND Z 315 BY CREW S5101 DURING JOB 101188 IN MAY 2024.
Comments			
ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS Y 315 AND Z 315 BY CREW S5101 DURING JOB 101188 IN MAY 2024.			

Location Description
TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 62/412 AND U.S. HWY 63 IN IMBODEN, LAWRENCE COUNTY ARKANSAS TRAVEL SOUTH EAST ALONG U.S. HIGHWAY 62/412 3.90 MILE TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 3 INCH ARDOT GPS MONUMENT STAMPED 380024, SET JUST BELOW GROUND SURFACE ON TOP OF A 5/8 IN REBAR 4 FOOT IN LENGTH. THE STATION IS 55 FEET, 16.76 METERS EAST OF THE CENTERLINE OF U.S. HWY AND 2 FEET, .61 METERS WEST OF A WITNESS POST.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380024A	Date Monumented 5/13/2024	Monumented By ARDOT	County LAWRENCE	Route 62/412	Job Number: 101188
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD83 (2011)		
Northing (M)	202,143.6046	0.0010	
Easting (M)	475,523.4246	0.0010	
Elevation (M)*	99.929	0.0020	
Northing (SFT)	663,199.4761		
Easting (SFT)	1,560,113.1022		
Elevation (SFT)*	327.851		

Convergence Angle	0	29	18.1269701
Scale Factor	0.999985016		
Elevation Adjust. Factor	0.9999843181		
Combined Adjust. Factor	0.9999693343		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination Pole	75	3.05	10.0
MK # 2	Telephone Pedestal	357	15.85	52.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS Y 315 AND Z 315 BY CREW S5101 DURING JOB 101188 IN MAY 2024.
Ref Mon # 2 ARPG	
Ref Mon # 3 ARHL, ARBT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380025	Date Monumented 5/13/2024	Monumented By ARDOT	County LAWRENCE	Route 62/412	Job Number: 101188
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD83 (2011)
Northing (M)	206,267.9596 0.0010
Easting (M)	475,221.6283 0.0010
Elevation (M)*	101.190 0.0026
Northing (SFT)	676,730.7975
Easting (SFT)	1,559,122.9588
Elevation (SFT)*	331.988

Convergence Angle	0 29 11.9171824
Scale Factor	0.999991660
Elevation Adjust. Factor	0.9999841202
Combined Adjust. Factor	0.9999757804

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	Combination Pole	339	12.80 42.0
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing) Ref Mon # 1 ARJB Ref Mon # 2 ARPG Ref Mon # 3 ARHL, ARBT	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS Y 315 AND Z 315 BY CREW S5101 DURING JOB 101188 IN MAY 2024.</td> </tr> </table>	Comments	ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS Y 315 AND Z 315 BY CREW S5101 DURING JOB 101188 IN MAY 2024.
Comments			
ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS Y 315 AND Z 315 BY CREW S5101 DURING JOB 101188 IN MAY 2024.			

Location Description
TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 62/412 AND U.S. HWY 63 IN IMBODEN, LAWRENCE COUNTY ARKANSAS TRAVEL SOUTH EAST ALONG U.S. HIGHWAY 62/412 1.10 MILE TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 3 INCH ARDOT GPS MONUMENT STAMPED 380025 2024, SET JUST BELOW GROUND SURFACE ON TOP OF A 5/8 IN REBAR 4 FOOT IN LENGTH. THE STATION IS 55 FEET, 16.76 METERS SOUTH EAST OF THE CENTERLINE OF U.S. HWY AND 7 FEET, 2.13 METERS NORTH WEST OF A WITNESS POST.

AZ Mark Station	380025A
Geodetic Azimuth	328 16 21.1
Grid Azimuth	327 47 11.5

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 380025A	Date Monumented 5/13/2024	Monumented By ARDOT	County LAWRENCE	Route 62/412	Job Number: 101188
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD83 (2011)
Northing (M)	206,589.3152 0.0010
Easting (M)	475,019.1542 0.0010
Elevation (M)*	84.468 0.0027
Northing (SFT)	677,785.1116
Easting (SFT)	1,558,458.6751
Elevation (SFT)*	277.126

Convergence Angle	0 29 7.2651719
Scale Factor	0.999992197
Elevation Adjust. Factor	0.9999867444
Combined Adjust. Factor	0.9999789415

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Steel Pipe Fence Post	304	0.61	2.0
MK # 2	Steel Pipe Fence Post	230	2.44	8.0
MK # 3	Steel Pipe Fence Post	15	2.13	7.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB Ref Mon # 2 ARPG Ref Mon # 3 ARHL, ARBT	ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS Y 315 AND Z 315 BY CREW S5101 DURING JOB 101188 IN MAY 2024.

Location Description	
TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 62/412 AND U.S. HWY 63 IN IMBODEN, LAWRENCE COUNTY ARKANSAS TRAVEL SOUTH EAST ALONG U.S. HIGHWAY 62/412 0.85 MILES TO THE STATION ON THE RIGHT. THE STATION IS A STANDARD 3 INCH ARDOT GPS MONUMENT STAMPED 380025A 2024, SET JUST BELOW GROUND SURFACE ON TOP OF A 5/8 IN REBAR 4 FOOT IN LENGTH. THE STATION IS 72 FEET, 21.95 METERS SOUTH WEST OF THE CENTERLINE OF U.S. HWY AND 1.5 FEET, 0.45 METERS NORTH EAST OF A WITNESS POST.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350040	Date Monumented 5/29/2024	Monumented By ARDOT	County JEFFERSON	Route 31	Job Number: 012384
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	590,816.2538	0.0020			
Easting (M)	405,760.4695	0.0030			
Elevation (M)*	65.740				
Northing (SFT)	1,938,369.6593				
Easting (SFT)	1,331,232.4737				
Elevation (SFT)*	215.680				

Convergence Angle	0	2	6.2174694
Scale Factor	0.999937351		
Elevation Adjust. Factor	0.9999896834		
Combined Adjust. Factor	0.9999270351		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination Pole	63	17.30	56.8
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARMO	ELEV. IS BASED ON DIGITAL LEVELS BY S5103 IN JUNE 2024 FOR JOB #012384 SITE 8 FROM NGS PUBLISHED 2ND ORDER BM R 53
Ref Mon # 2 ARLR	
Ref Mon # 3 ARSC	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350040A	Date Monumented 5/29/2024	Monumented By ARDOT	County JEFFERSON	Route 31	Job Number: 012384
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	590,519.6458	0.0020			
Easting (M)	405,497.8865	0.0030			
Elevation (M)*	65.950				
Northing (SFT)	1,937,396.5379				
Easting (SFT)	1,330,370.9826				
Elevation (SFT)*	216.371				

Convergence Angle	0	2	0.4602275
Scale Factor	0.999937065		
Elevation Adjust. Factor	0.9999896504		
Combined Adjust. Factor	0.9999267160		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARMO	ELEV. IS BASED ON DIGITAL LEVELS BY S5103 IN JUNE 2024 FOR JOB #012384 SITE 8 FROM NGS PUBLISHED 2ND ORDER BM R 53
Ref Mon # 2 ARLR	
Ref Mon # 3 ARSC	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	34 23 3.7940280
Longitude	91 56 24.7735716
Ellipsoid Height (M):	39.702 0.0090
Geoid Height (M):	-26.145 0.0090

Location Description
<p>To reach from the intersection of Hwy 31 and Highway 1 in Sherrill, go North on 31 for 0.35 miles to the station on the Right/East. The station is 17.7 ft. East of the centerline of Highway 31. The station mark is a standard 2 1/2in. aluminium cap stamped "350040A 2024" and set on top of a 5/8in. rebar driven 0.10in. below the surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610017	Date Monumented 10/3/2023	Monumented By ARDOT	County Randolph	Route 115	Job Number: 101140
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	217,634.9700 0.0010
Easting (M)	492,526.2258 0.0010
Elevation (M)*	107.702
Northing (SFT)	714,024.0641
Easting (SFT)	1,615,896.4591
Elevation (SFT)*	353.351

Convergence Angle	0 35 57.6851614
Scale Factor	1.000011827
Elevation Adjust. Factor	0.9999830984
Combined Adjust. Factor	0.9999949252

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:		3rd Order - Digital Levels	
Elevation Datum:		NAVD 88	
Geoid Datum:		Geoid 18	
Latitude	36 17	26.1747024	
Longitude	90 58	11.9945100	
Ellipsoid Height (M):	79.344	0.0030	
Geoid Height (M):	-28.342	0.0030	

Location Description
<p>To reach from the Jct. of Hwy 90 and 115 in Pocahontas go North on Hwy 115 for 1.3 miles to the station on the West/Left. The station is 62ft South of the center of the North driveway to the Pocahontas Animal Control, and 25ft North of the South driveway. The station mark is a 2 1/2in. cap stamped "610017 2023" set ontop of a 5/8in by 4ft rebar driven 0.10in below the surface.</p>

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	18" CMP		1	9.80	32.2
MK # 2	18" CMP		177	9.40	30.8
MK # 3					

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARHL</p> <p>Ref Mon # 2 ARJB</p> <p>Ref Mon # 3 ARPG, MODP</p>	<p style="text-align: center;">Comments</p> <p>ELEV. BASED ON DIGITAL LEVELS BY S5101 IN JUNE 2023 FOR JOB #101140 FROM NGS PUBLISHED 2ND ORDER BM H 41</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610017A	Date Monumented 10/3/2023	Monumented By ARDOT	County Randolph	Route 115	Job Number: 101140
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	217,254.0985 0.0010
Easting (M)	492,578.6457 0.0010
Elevation (M)*	98.622
Northing (SFT)	712,774.4882
Easting (SFT)	1,616,068.4401
Elevation (SFT)*	323.562

Convergence Angle	0 35 58.8145319
Scale Factor	1.000011089
Elevation Adjust. Factor	0.9999845233
Combined Adjust. Factor	0.9999956121

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:		3rd Order - Digital Levels	
Elevation Datum:		NAVD 88	
Geoid Datum:		Geoid 18	
Latitude	36 17	13.8011712	
Longitude	90 58	10.0536744	
Ellipsoid Height (M):	70.274	0.0030	
Geoid Height (M):	-28.338	0.0030	

Location Description
<p>To reach from the Jct. of Hwy 90 and 115 in Pocahontas go North on Hwy 115 for 1.05 miles to the station on the East/Right. The station is 45ft South of the center of driveway for Copper Safe Storage. The station mark is a 2 1/2in. Cap stamped "610017A 2023" set on top of a 5/8in by 4ft rebar driven 0.10in below the surface.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NW Cor Storage BU	38	22.30	73.2
MK # 2	North end of GD in PK	170	9.10	29.9
MK # 3	S end 18" CMP under DW	1	10.10	33.1

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARHL</p> <p>Ref Mon # 2 ARJB</p> <p>Ref Mon # 3 ARPG, MODP</p>	<p style="text-align: center;">Comments</p> <p>ELEV. BASED ON DIGITAL LEVELS BY S5101 IN JUNE 2023 FOR JOB #101140 FROM NGS PUBLISHED 2ND ORDER BM H 41</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530020	Date Monumented 10/17/2023	Monumented By ARDOT	County Perry	Route 60	Job Number: 080710
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	74,741.2649	0.0020			
Easting (M)	325,502.3952	0.0020			
Elevation (M)*					
Northing (SFT)	245,213.6333				
Easting (SFT)	1,067,919.1083				
Elevation (SFT)*					

Convergence Angle	0	28	29.6655295
Scale Factor	0.999986819		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Center of Chainlink Gate	262	23.10	75.8	530020A
MK # 2	Metal Fence Post	345	5.70	18.7	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS	CONSTRAINED ORTHOMETRIC HTS. ON ARDOT CORS SITES ARGS, ARLR & ARR V IN FINAL STATIC NETWORK ADJUSTMENT.
Ref Mon # 2 ARLR	
Ref Mon # 3 ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530020A	Date Monumented 10/17/2023	Monumented By ARDOT	County Perry	Route 60	Job Number: 080710
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	74,857.1613 0.0020
Easting (M)	325,789.8869 0.0020
Elevation (M)*	

Northing (SFT)	245,593.8700	
Easting (SFT)	1,068,862.3206	
Elevation (SFT)*		

Convergence Angle	0	28	23.0900671
Scale Factor	0.999986632		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	East end of Guardrail	320	1.25	4.1
MK # 2	FOC Marker	167	3.29	10.8
MK # 3	Center of Manhole	198	11.52	37.8

Area Reference Monuments (used for Processing) Ref Mon # 1 ARGS Ref Mon # 2 ARLR Ref Mon # 3 ARR V	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> CONSTRAINED ORTHOMETRIC HTS. ON ARDOT CORS SITES ARGS, ARLR & ARR V IN FINAL STATIC NETWORK ADJUSTMENT. </td> </tr> </table>	Comments	CONSTRAINED ORTHOMETRIC HTS. ON ARDOT CORS SITES ARGS, ARLR & ARR V IN FINAL STATIC NETWORK ADJUSTMENT.
Comments			
CONSTRAINED ORTHOMETRIC HTS. ON ARDOT CORS SITES ARGS, ARLR & ARR V IN FINAL STATIC NETWORK ADJUSTMENT.			

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 0 19.1256984
Longitude	92 48 46.7788608
Ellipsoid Height (M):	71.847 0.0090
Geoid Height (M):	-28.394 0.0090

Location Description
<p>To reach from the Junction of Hwy. 60 and Hwy. 9 in Perryville. Go West on Hwy. 60 for 0.7 miles to the station on the Left/South. The station is 20.1 ft. South of the centerline of Hwy. 60 and 27.8 ft. East of the Southeast corner of the bridge. The station mark is a 2 1/2 in. cap stamped "530020A 2023" set on top of a 5/8 in. by 4ft. rebar driven 0.10 in. below the surface.</p>

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460047A	Date Monumented 10/3/2023	Monumented By ARDOT	County Miller	Route Mitigation	Job Number: DAYS CREEK MITIGATION
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD83 (2011)		
Northing (M)	469,587.3702	0.0010	
Easting (M)	216,048.2413	0.0010	
Elevation (M)*	60.990		
Northing (SFT)	1,540,637.8971		
Easting (SFT)	708,818.2717		
Elevation (SFT)*	200.098		

Convergence Angle	-1	6	18.8232927
Scale Factor	1.000004941		
Elevation Adjust. Factor	0.9999904288		
Combined Adjust. Factor	0.9999953697		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description			Azimuth		Distance	
					Meters	Feet
MK # 1	30" OAK TREE	250	39.50	129.6		
MK # 2	28" OAK TREE	150	20.00	65.6		
MK # 3						

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHP Ref Mon # 2 1LNT Ref Mon # 3 ARMN	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevations determined by Static GPS holding ARP height at ARHP.</td> </tr> </table>	Comments	Elevations determined by Static GPS holding ARP height at ARHP.
Comments			
Elevations determined by Static GPS holding ARP height at ARHP.			

Location Description	
From the intersection of Interstate 49 and Hwy 234 travel South on Hwy 237 for 5.3 miles to County Rd. 225 on the left. Go down said county road for 1 mile to a gate. Beyond gate travel East along trail 0.5 miles to the mark on right side of the trail on creek bank.	

AZ Mark Station	460047A
Geodetic Azimuth	243 34 08
Grid Azimuth	244 40 11

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460047	Date Monumented 10/3/2023	Monumented By ARDOT	County Miller	Route Mitigation	Job Number: DAYS CREEK MITIGATION
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Zone Arkansas South	Zone Code 302	
Horizontal Datum	NAD83 (2011)	
Northing (M)	469,512.0453	0.0010
Easting (M)	215,889.0764	0.0010
Elevation (M)*	60.884	
Northing (SFT)	1,540,390.7686	
Easting (SFT)	708,296.0782	
Elevation (SFT)*	199.751	

Convergence Angle	-1	6	22.2336755
Scale Factor	1.000005102		
Elevation Adjust. Factor	0.9999904454		
Combined Adjust. Factor	0.9999955473		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	2" THORN TREE	65		7.01	23.0
MK # 2	TRAIL	0		11.00	36.1
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="ARHP"/> Ref Mon # 2 <input type="text" value="1LNT"/> Ref Mon # 3 <input type="text" value="ARMN"/>	Elevations determined by Static GPS holding ARP height at ARHP.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460048	Date Monumented 10/3/2023	Monumented By ARDOT	County Miller	Route Mitigation	Job Number: DAYS CREEK MITIGATION
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD83 (2011)				
Northing (M)	470,578.6076	0.0010			
Easting (M)	216,574.0323	0.0010			
Elevation (M)*	60.578				
Northing (SFT)	1,543,889.9818				
Easting (SFT)	710,543.3043				
Elevation (SFT)*	198.747				

Convergence Angle	-1	6	7.8657820
Scale Factor	1.000002892		
Elevation Adjust. Factor	0.9999904934		
Combined Adjust. Factor	0.9999933854		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	244	14.50	47.6
MK # 2	POWER POLE	118	83.80	274.9
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHP Ref Mon # 2 1LNT Ref Mon # 3 ARMN	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Elevations determined by Static GPS holding ARP height at ARHP.</td> </tr> </table>	Comments	Elevations determined by Static GPS holding ARP height at ARHP.
Comments			
Elevations determined by Static GPS holding ARP height at ARHP.			

Location Description	
From the intersection of Interstate 49 and Hwy 234 travel South on Hwy 237 for 5.3 miles to County Rd. 225 on the left. Go down said county road for 1 mile to a gate. Beyond gate travel East along trail 1.25 miles to the power line go right on the power line 460 feet to the mark.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460048A	Date Monumented 10/3/2023	Monumented By ARDOT	County Miller	Route Mitigation	Job Number: DAYS CREEK MITIGATION
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD83 (2011)				
Northing (M)	470,687.0479	0.0020			
Easting (M)	216,332.4358	0.0020			
Elevation (M)*	60.742				
Northing (SFT)	1,544,245.7563				
Easting (SFT)	709,750.6665				
Elevation (SFT)*	199.284				

Convergence Angle	-1	6	13.1358787
Scale Factor	1.000002681		
Elevation Adjust. Factor	0.9999904677		
Combined Adjust. Factor	0.9999931487		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	110	72.00	236.2
MK # 2	POWER POLE	288	15.50	50.9
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="ARHP"/> Ref Mon # 2 <input type="text" value="1LNT"/> Ref Mon # 3 <input type="text" value="ARMN"/>	Elevations determined by Static GPS holding ARP height at ARHP.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530021	Date Monumented 11/7/2023	Monumented By ARDOT	County Perry	Route Trail 86	Job Number: BR5308
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	63,862.0320	0.0010	
Easting (M)	321,341.6471	0.0020	
Elevation (M)*			
Northing (SFT)	209,520.6833		
Easting (SFT)	1,054,268.3872		
Elevation (SFT)*			

Convergence Angle	0	30	2.9645944
Scale Factor	1.000005517		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Combination Pole	277	3.70	12.1	AZ Mark Station 530021A
MK # 2	30" Pine Tree	131	7.30	24.0	Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	STATIC DERIVED ELEVATION BASED ON ORTHOMETRIC HTS. CONSTRAINTS ON ARDOT CORS SITES ARDQ, ARGS, ARLR & ARRV.
Ref Mon # 2 ARGS	
Ref Mon # 3 ARLR, ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 530021A	Date Monumented 11/7/2023	Monumented By ARDOT	County Perry	Route Trail 86	Job Number: BR5308
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	64,085.3327	0.0010	
Easting (M)	321,626.4645	0.0020	
Elevation (M)*			
Northing (SFT)	210,253.2957		
Easting (SFT)	1,055,202.8256		
Elevation (SFT)*			

Convergence Angle	0	29	56.4810722
Scale Factor	1.000005101		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Combination Pole W/light	110	8.20	26.9	530021
MK # 2	Service Pole	157	18.90	62.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ Ref Mon # 2 ARGS Ref Mon # 3 ARLR, ARRV	STATIC DERIVED ELEVATION BASED ON ORTHOMETRIC HTS. CONSTRAINTS ON ARDOT CORS SITES ARDQ, ARGS, ARLR & ARRV.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180034	Date Monumented 11/29/2023	Monumented By ARDOT	County CRITTENDEN	Route 147	Job Number: C18019, 110827
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	86,093.6680	0.0020			
Easting (M)	555,590.4698	0.0020			
Elevation (M)*					
Northing (SFT)	282,458.9758				
Easting (SFT)	1,822,799.7330				
Elevation (SFT)*					

Convergence Angle	0	59	34.9272120
Scale Factor	0.999971829		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	North end of Northeast Guardrail	200	1.80	5.9	180034A
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	
Ref Mon # 2 ARMA	
Ref Mon # 3 ARWM, ARWY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180034A	Date Monumented 11/29/2023	Monumented By ARDOT	County CRITTENDEN	Route 147	Job Number: C18019, 110827
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	86,512.1889	0.0020			
Easting (M)	555,587.9326	0.0020			
Elevation (M)*					
Northing (SFT)	283,832.0731				
Easting (SFT)	1,822,791.4089				
Elevation (SFT)*					

Convergence Angle	0	59	35.0355800
Scale Factor	0.999971275		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	144	32.70	107.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	
Ref Mon # 2 ARMA	
Ref Mon # 3 ARWM, ARWY	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 6 3.5204256
Longitude	90 17 36.2623524
Ellipsoid Height (M):	35.764 0.0090
Geoid Height (M):	-27.227 0.0090

Location Description
<p>To reach from the Junction of Hwy. 70 and Hwy. 147 in Lehi. Go South on Hwy. 147 for 3.2 miles to the station on the Left/East. The station is 27.0 ft. East of the centerline of Hwy. 147. The station mark is a 2 1/2 in. cap stamped "180034A 2023" set on top of a 5/8 in. by 4ft. rebar driven 0.10 in. below the surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430025	Date Monumented 6/6/2022	Monumented By AHTD S5101	County LONOKE	Route State Hig	Job Number: 61759, 061677
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	51,040.0829	0.0010			
Easting (M)	400,487.5001	0.0010			
Elevation (M)*	75.878				
Northing (SFT)	167,454.0053				
Easting (SFT)	1,313,932.7399				
Elevation (SFT)*	248.943				

Convergence Angle	0	0	11.1586010
Scale Factor	1.000030461		
Elevation Adjust. Factor	0.9999880924		
Combined Adjust. Factor	1.0000185531		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	North end of a 36" Corugated Plastic Culvert	263	13.41	44.0
MK # 2	North end of a 36" corugated Plastic Culvert	205	32.92	108.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHZ Ref Mon # 3 ARST	Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.

Location Description	
The intersection of Interstate 40 and Arkansas State Highway 15 (Exit 169) , Lonoke County Arkansas. Travel South along State Highway 15, 0.6 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430025, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 40 feet West of the centerline of Arkansas State Highway 15, 24 feet North of the center of a gravel driveway.	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	34 47 36.2004108
Longitude	91 59 40.8238224
Ellipsoid Height (M):	49.077 0.0050
Geoid Height (M):	-26.768 0.0000

AZ Mark Station	430025A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430025A	Date Monumented 6/6/2022	Monumented By AHTD (S5101)	County LONOKE	Route State Hig	Job Number: 61759, 061677
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	51,531.7600 0.0010
Easting (M)	400,492.9095 0.0010
Elevation (M)*	76.924
Northing (SFT)	169,067.1159
Easting (SFT)	1,313,950.4873
Elevation (SFT)*	252.375

Convergence Angle	0 0 11.2830343
Scale Factor	1.000029406
Elevation Adjust. Factor	0.9999879283
Combined Adjust. Factor	1.0000173339

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	East End of a Headwall	199	30.48	100.0
MK # 2	East Edge of a Sign	347	33.52	110.0
MK # 3	Combination Pole	114	28.04	92.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHZ Ref Mon # 3 ARST	Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.

Location Description	
To reach from the intersection of Interstate 40 and Arkansas State Highway 15 (Exit 169) , Lonoke County Arkansas. Travel South along State Highway 15, 0.3 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430025A, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 37 feet West of the centerline of Arkansas State Highway 15, 153 feet South of the centerline a paved road leading West to Remington Ammunition, and 111 feet North of the center of a gravel field entrance.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430026	Date Monumented 6/6/2022	Monumented By AHTD (S5101)	County LONOKE	Route State Hig	Job Number: 61759, 061677
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	52,587.8600	0.0010	
Easting (M)	404,591.8235	0.0010	
Elevation (M)*	74.390		
Northing (SFT)	172,532.0040		
Easting (SFT)	1,327,398.3409		
Elevation (SFT)*	244.061		

Convergence Angle	0	1	45.1222822
Scale Factor	1.000027163		
Elevation Adjust. Factor	0.9999883259		
Combined Adjust. Factor	1.0000154886		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Power Pole		36	8.53	28.0
MK # 2	East End of a Headwall		271	14.93	49.0
MK # 3					

Area Reference Monuments (used for Processing) Ref Mon # 1 ARLR Ref Mon # 2 ARHZ Ref Mon # 3 ARST	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.</td> </tr> </table>	Comments	Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.
Comments			
Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.			

Location Description
To reach from the intersection of Interstate 40 and Arkansas State Highway 89 (Exit 173) in Lonoke, Lonoke County Arkansas. Travel North along State Highway 89, 2.1 miles to the station on the Left. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430026, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 78 feet West of the centerline of Arkansas State Highway 89, 34 feet East of the centerline of Des Lauriers road and 9 feet North of the center of a gravel driveway.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430026A	Date Monumented 6/6/2022	Monumented By AHTD (S5101)	County LONOKE	Route State Hig	Job Number: 61759, 061677
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	53,220.2592 0.0010
Easting (M)	404,602.6119 0.0010
Elevation (M)*	75.046
Northing (SFT)	174,606.8004
Easting (SFT)	1,327,433.7359
Elevation (SFT)*	246.213

Convergence Angle	0 1 45.3766603
Scale Factor	1.000025831
Elevation Adjust. Factor	0.9999882230
Combined Adjust. Factor	1.0000140537

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	South End 30 in Corugated Metal Pipe	348	10.36	34.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.
Ref Mon # 2 ARHZ	
Ref Mon # 3 ARST	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	34 48 46.9092888
Longitude	91 56 58.9090596
Ellipsoid Height (M):	48.163 0.0050
Geoid Height (M):	-26.832 0.0000

Location Description
<p>To reach from the intersection of Interstate 40 and Arkansas State Highway 89 (Exit 173) in Lonoke, Lonoke County Arkansas. Travel North along State Highway 89, 2.5 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430026A, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 37 feet East of the centerline of Arkansas State Highway 89 and 38 feet South of the centerline of a gravel field entrance.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430027	Date Monumented 6/6/2022	Monumented By AHTD (S5101)	County LONOKE	Route State Hig	Job Number: 61759, 061677
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	51,269.2156 0.0010
Easting (M)	407,815.9398 0.0010
Elevation (M)*	72.498
Northing (SFT)	168,205.7515
Easting (SFT)	1,337,976.1292
Elevation (SFT)*	237.855

Convergence Angle	0 2 58.9069319
Scale Factor	1.000029976
Elevation Adjust. Factor	0.9999886228
Combined Adjust. Factor	1.0000185984

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	North End 18 in Corugated Metal Pipe	185	9.45	31.0
MK # 2	South End 18 in Corugated Metal Pipe	26	3.66	12.0
MK # 3	Combination Pole	231	1.52	5.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHZ Ref Mon # 3 ARST	Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.

Vertical Determined By: 3rd Order - Digital Levels

Elevation Datum: NAVD 88

Geoid Datum: GEOID18

Latitude 34 47 43.5261840

Longitude 91 54 52.5464856

Ellipsoid Height (M): 45.630 0.0060

Geoid Height (M): -26.812 0.0000

Location Description

To reach from the intersection of Interstate 40 and Arkansas State Highway 89 (Exit 173) in Lonoke, Lonoke County Arkansas. Travel South along State Highway 89, 0.6 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430027, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 34 feet West of the centerline of Arkansas State Highway 89 and 5 feet East of a pipe fence corner.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430027A	Date Monumented 6/6/2022	Monumented By AHTD (S5101)	County LONOKE	Route State Hig	Job Number: 61759, 061677
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	51,813.7138 0.0010
Easting (M)	407,855.4938 0.0010
Elevation (M)*	72.386

Northing (SFT)	169,992.1594		
Easting (SFT)	1,338,105.8992		
Elevation (SFT)*	237.487		

Convergence Angle	0	2	59.8231884
Scale Factor	1.000028811		
Elevation Adjust. Factor	0.9999886404		
Combined Adjust. Factor	1.0000174510		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

To reach from the intersection of Interstate 40 and Arkansas State Highway 89 (Exit 173) in Lonoke, Lonoke County Arkansas. Travel South along State Highway 89, 0.2 miles to the station on the Left. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430027A, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 60 feet East of the centerline of Arkansas State Highway 89 and 35 feet North of the centerline of a paved field entrance.

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	North End 24 in Corugated Metal Pipe	264	
MK # 2	Power Pole	175	
MK # 3			

AZ Mark Station	430027
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR	Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.
Ref Mon # 2 ARHZ	
Ref Mon # 3 ARST	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430028	Date Monumented 6/6/2022	Monumented By AHTD (S5101)	County LONOKE	Route Interstate 4	Job Number: 61759, 061677
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	52,220.2631 0.0010
Easting (M)	411,406.8710 0.0010
Elevation (M)*	72.739
Northing (SFT)	171,325.9799
Easting (SFT)	1,349,757.3759
Elevation (SFT)*	238.644

Convergence Angle	0 4 21.1308666
Scale Factor	1.000027954
Elevation Adjust. Factor	0.9999885851
Combined Adjust. Factor	1.0000165387

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:		3rd Order - Digital Levels	
Elevation Datum:		NAVD 88	
Geoid Datum:		GEOID18	
Latitude	34 48	14.2633008	
Longitude	91 52	31.2437568	
Ellipsoid Height (M):	45.823	0.0060	
Geoid Height (M):	-26.849	0.0000	

Location Description
<p>To reach from the intersection of Interstate 40 and Arkansas State Highway 31 (Exit 175) in Lonoke, Lonoke County Arkansas. Travel South along State Highway 31, 0.2 miles to Nathan Road (frontage road) on the Left, then travel East along Nathan Road 0.9 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430028, 6/2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 33 feet south of the centerline on Nathan Road and 96 feet West of the centerline of a paved driveway entrance leading South.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	265	22.86	75.0
MK # 2	Power Pole	91	20.42	67.0
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARLR</p> <p>Ref Mon # 2 ARHZ</p> <p>Ref Mon # 3 ARST</p>	<p style="text-align: center;">Comments</p> <p>Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 430028A	Date Monumented 6/6/2022	Monumented By AHTD (S5101)	County LONOKE	Route Interstate 4	Job Number: 61759, 061677
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	52,232.2040 0.0010
Easting (M)	411,911.3649 0.0010
Elevation (M)*	71.589
Northing (SFT)	171,365.1560
Easting (SFT)	1,351,412.5363
Elevation (SFT)*	234.870

Convergence Angle	0 4 32.6802993
Scale Factor	1.000027930
Elevation Adjust. Factor	0.9999887655
Combined Adjust. Factor	1.0000166952

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:		3rd Order - Digital Levels	
Elevation Datum:		NAVD 88	
Geoid Datum:		GEOID18	
Latitude	34 48	14.6296008	
Longitude	91 52	11.3959308	
Ellipsoid Height (M):	44.671	0.0060	
Geoid Height (M):	-26.852	0.0000	

Location Description
<p>To reach from the intersection of Interstate 40 and Arkansas State Highway 31 (Exit 175) in Lonoke, Lonoke County Arkansas. Travel South along State Highway 31, 0.2 miles to Nathan Road (frontage road) on the Left, then travel East along Nathan Road 1.2 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430028A, 6/2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 40 feet south of the centerline on Nathan Road and 52 feet West of the centerline of a paved driveway leading South to a one story brick residence.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	182	2.74	9.0
MK # 2	West End 36 in Corugated Metal Pipe	69	11.28	37.0
MK # 3	Center of Headwall	279	28.04	92.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARLR Ref Mon # 2 ARHZ Ref Mon # 3 ARST	Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600080	Date Monumented 6/8/2022	Monumented By AHTD (S5101)	County Pulaski	Route Interstate 4	Job Number: 061677, 61759
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	50,197.1781	0.0010
Easting (M)	389,341.9688	0.0010
Elevation (M)*	74.717	

Northing (SFT)	164,688.5751	
Easting (SFT)	1,277,366.1093	
Elevation (SFT)*	245.134	

Convergence Angle	0	4	3.9333558
Scale Factor	1.000032297		
Elevation Adjust. Factor	0.9999882746		
Combined Adjust. Factor	1.0000205712		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

To reach from the intersection of Interstate 40 and Arkansas State Highway 391, Dick Jeter Road, (Exit 161) , Galloway, Pulaski County, Arkansas. Travel West along Interstate 40, 0.7 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 600080, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 96 ft. south of the South edge of the shoulder of Eastbound Interstate 40 and 15 ft North of a 6 ft. chainlink fence, in front of Maveric Transportation Company.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Concrete Right of Way Marker	170	4.27	14.0
MK # 2	Power Pole	98	12.80	42.0
MK # 3	Utility Marker (FOC)	252	40.54	133.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <p>Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 600080A	Date Monumented 6/8/2022	Monumented By AHTD (S5101)	County Pulaski	Route Interstate 4	Job Number: 061677, 61759
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	50,261.5642	0.0010
Easting (M)	389,836.6391	0.0010
Elevation (M)*	73.972	

Northing (SFT)	164,899.8152	
Easting (SFT)	1,278,989.0401	
Elevation (SFT)*	242.691	

Convergence Angle	0	3	52.6133706
Scale Factor	1.000032155		
Elevation Adjust. Factor	0.9999883915		
Combined Adjust. Factor	1.0000205461		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

To reach from the intersection of Interstate 40 and Arkansas State Highway 391, Dick Jeter Road, (Exit 161) , Galloway, Pulaski County, Arkansas. Travel West along Interstate 40, 1.0 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 600080A, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 96 ft. south of the South edge of the shoulder of Eastbound Interstate 40 and 15 ft North of a 6 ft. chainlink fence, in front of Maveric Transportation Company.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Concrete Right of Way Marker	174	4.27	14.0
MK # 2	Utility Marker (FOC)	205	4.27	14.0
MK # 3	Underpavement Drain Outlet	10	27.43	90.0

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 2 <input style="width: 150px;" type="text"/></p> <p>Ref Mon # 3 <input style="width: 150px;" type="text"/></p>	<p style="text-align: center;">Comments</p> <p>Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230040	Date Monumented 11/3/2022	Monumented By AHTD S5101	County Faulkner	Route 65	Job Number: 080685
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	96,575.1627 0.0010
Easting (M)	364,522.4835 0.0010
Elevation (M)*	132.420
Northing (SFT)	316,847.0130
Easting (SFT)	1,195,937.5146
Elevation (SFT)*	434.449

Convergence Angle	0 13 36.1802092
Scale Factor	0.999957914
Elevation Adjust. Factor	0.9999792194
Combined Adjust. Factor	0.9999371343

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:		3rd Order - Digital Levels	
Elevation Datum:		NAVD 88	
Geoid Datum:		GEOID18	
Latitude	35 12	11.5427772	
Longitude	92 23	22.6145940	
Ellipsoid Height (M):	104.397	0.0120	
Geoid Height (M):	-28.023	0.0000	

Location Description
<p>TO REACH FROM THE INTERSECTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 25 SOUTH, LOCATED IN GREENBRIAR, FAULKNER COUNTY ARKANSAS TRAVEL SOUTH ALONG U.S. HIGHWAY 65, 1.8 MILES TO THE STATION ON THE LEFT. THE STATION IS A 2.5 INCH ALUMINUM CAP STAMPED 230040, 2022 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 10 FEET (3.05M) EAST OF THE BACK OF THE CURB, AND 61 FEET (18.59M) SOUTH OF THE CENTER OF A PAVED DRIVEWAY.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	174	10.06	33.0
MK # 2	TELEPHONE PEDESTAL	15	25.91	85.0
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARR V</p> <p>Ref Mon # 2 ARSC</p> <p>Ref Mon # 3 ARLR</p>	<p style="text-align: center;">Comments</p> <p>10 FEET (3.05M) EAST OF THE BACK OF THE EAST CURB, 61 FEET (18.59M) SOUTH OF THE CENTER OF A PAVED DRIVEWAY LEADING TO A ONE STORY BRICK HOUSE.</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230040A	Date Monumented 11/3/2022	Monumented By AHTD S5101	County Faulkner	Route 65	Job Number: 080685
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	97,110.9037	0.0010			
Easting (M)	364,576.9001	0.0010			
Elevation (M)*	115.245				
Northing (SFT)	318,604.6899				
Easting (SFT)	1,196,116.0464				
Elevation (SFT)*	378.099				

Convergence Angle	0	13	34.9770355
Scale Factor	0.999957361		
Elevation Adjust. Factor	0.9999819146		
Combined Adjust. Factor	0.9999392764		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	284	1.22	4.0
MK # 2	TELEPHONE HAND HOLE (IN GROUND)	5	40.54	133.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARR _V Ref Mon # 2 AR _{SC} Ref Mon # 3 AR _{LR}	Comments 23 FEET (7.01M) WEST OF THE BACK OF THE WEST CURB 107 FEET (32.61M) NORTH OF THE CENTERLINE OF A PAVED FIELD ENTRANCE 101 FEET (30.78M) SOUTH OF THE CENTERLINE OF A PAVED FIELD ENTRANCE
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Location Description	
TO REACH FROM THE INTERSECTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 25 SOUTH, LOCATED IN GREENBRIAR, FAULKNER COUNTY ARKANSAS TRAVEL SOUTH ALONG U.S. HIGHWAY 65, 1.4 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2.5 INCH ALUMINUM CAP STAMPED 230040A, 2022 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 4.0 FEET (1.07M) EAST OF A WITNESS POST, 19 FEET (7.01M) WEST OF THE BACK OF THE CURB, 101 FEET (30.78M) SOUTH OF THE CENTER OF A PAVED FIELD ENTRANCE, AND 107 FEET (32.61M) NORTH OF THE CENTER OF A PAVED FIELD ENTRANCE.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230041	Date Monumented 11/3/2022	Monumented By AHTD S5101	County Faulkner	Route 65	Job Number: 080685
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	101,178.4213 0.0010
Easting (M)	364,716.2435 0.0010
Elevation (M)*	121.141

Northing (SFT)	331,949.5372
Easting (SFT)	1,196,573.2089
Elevation (SFT)*	397.443

Convergence Angle	0	13	32.1396648
Scale Factor	0.999953390		
Elevation Adjust. Factor	0.9999809894		
Combined Adjust. Factor	0.9999343803		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN SIGN POST (COLE'S CUTS)	274	4.57	15.0
MK # 2	METAL SIGN POST (ALL APPLIANCES & MO	355	21.33	70.0
MK # 3	STORM SEWER MAN HOLE	167	30.17	99.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input type="text" value="ARRV"/>	SOUTH 98 FEET (29.87M) FROM THE CENTER OF A PAVED DRIVEWAY LEADING TO A ONE STORY METAL BUILDING NORTH 67 FEET (20.42m) FROM THE CENTER OF A PAVED DRIVEWAY LEADING TO A ONE STORY BRICK BUILDING
Ref Mon # 2 <input type="text" value="ARSC"/>	
Ref Mon # 3 <input type="text" value="ARLR"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 230041A	Date Monumented 11/3/2022	Monumented By AHTD S5101	County Faulkner	Route 65	Job Number: 080685
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	101,916.1955	0.0010			
Easting (M)	364,758.8407	0.0010			
Elevation (M)*					

Northing (SFT)	334,370.0514				
Easting (SFT)	1,196,712.9632				
Elevation (SFT)*					

Convergence Angle	0	13	31.2259871		
Scale Factor	0.999952714				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	METAL SIGN POST		54	14.33	47.0
MK # 2	COMBINATION POLE		165	15.24	50.0
MK # 3	STORM SEWER MANHOLE		191	17.37	57.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text" value="ARRV"/>	14 FEET (4.68M) EAST OF THE BACK OF THE EAST CURB 29 FEET (8.84M) WEST OF THE BACK OF THE PARKING LOT CURB SOUTH 57 FEET (17.37M) SOUTH OF THE CENTER OF A CONCRETE DRIVEWAY
Ref Mon # 2 <input style="width: 150px;" type="text" value="ARSC"/>	
Ref Mon # 3 <input style="width: 150px;" type="text" value="ARLR"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150014A	Date Monumented 4/6/2023	Monumented By ARDOT	County CONWAY	Route Hwy 113	Job Number: 113
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	84,450.9226	0.0010	
Easting (M)	332,370.3395	0.0010	
Elevation (M)*	91.489		

Northing (SFT)	277,069.4019		
Easting (SFT)	1,090,451.6888		
Elevation (SFT)*	300.160		

Convergence Angle	0	25	53.7359728
Scale Factor	0.999972561		
Elevation Adjust. Factor	0.9999856426		
Combined Adjust. Factor	0.9999582040		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

From the intersection of Hwy 9/Hwy 113

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLL W/TRANS	300	116.00	380.6
MK # 2	POWER POLL	16	82.00	269.0
MK # 3				

AZ Mark Station	150014
Geodetic Azimuth	182°32'10.6"
Grid Azimuth	

**Area Reference Monuments
(used for Processing)**

Ref Mon # 1	ARCW
Ref Mon # 2	ARDV
Ref Mon # 3	ARRV

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150015	Date Monumented 4/6/2023	Monumented By ARDOT	County CONWAY	Route HWY 113	Job Number: 113
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD 83 (2011)	
Northing (M)	86,998.0001	0.0010
Easting (M)	332,397.8240	0.0010
Elevation (M)*	88.700	

Northing (SFT)	285,425.9387	
Easting (SFT)	1,090,541.8609	
Elevation (SFT)*	291.010	

Convergence Angle	0 25	53.5452924
Scale Factor	0.999969226	
Elevation Adjust. Factor	0.9999860803	
Combined Adjust. Factor	0.9999553067	

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

From the intersection of Hwy 9/Hwy 113

Location Reference Marks

Description	Azimuth	Distance		
		Meters	Feet	
MK # 1 WATER WELL FOR CROP FIELD	260	266.00	872.7	AZ Mark Station 150015A
MK # 2				Geodetic Azimuth 1°32'05.9"
MK # 3				Grid Azimuth

**Area Reference Monuments
(used for Processing)**

Ref Mon # 1	ARCW
Ref Mon # 2	ARDV
Ref Mon # 3	ARRV

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 150015A	Date Monumented 4/6/2023	Monumented By ARDOT	County CONWAY	Route HWY 113	Job Number: 113
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	87,386.7714	0.0010	
Easting (M)	332,411.1724	0.0010	
Elevation (M)*	87.196		
Northing (SFT)	286,701.4325		
Easting (SFT)	1,090,585.6548		
Elevation (SFT)*	286.076		

Convergence Angle	0	25	53.3058274
Scale Factor	0.999968730		
Elevation Adjust. Factor	0.9999863163		
Combined Adjust. Factor	0.9999550467		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	7	7.3975476
Longitude	92	44	29.3730108
Ellipsoid Height (M):	58.671	0.0060	
Geoid Height (M):	-28.532	0.0060	

Location Description
From the intersection of Hwy 9/Hwy 113

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	8 IN ELM TREE	18	57.50	188.6		150015
MK # 2						181°32'05.9"
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCW	
Ref Mon # 2 ARDV	
Ref Mon # 3 ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470036	Date Monumented 4/25/2023	Monumented By ARDOT	County MISSISSIPPI	Route 61	Job Number: 101141
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	152,103.3883	0.0010			
Easting (M)	582,481.0914	0.0020			
Elevation (M)*					
Northing (SFT)	499,025.8664				
Easting (SFT)	1,911,023.3807				
Elevation (SFT)*					

Convergence Angle	1	10	23.6737935
Scale Factor	0.999937554		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE	3	15.40	50.5
MK # 2	TELEPHONE BOX	205	1.60	5.2
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARJB Ref Mon # 2 ARPG Ref Mon # 3 ARWM, MOKE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td style="height: 100px;"></td> </tr> </table>	Comments	
Comments			

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 41 15.0444672
Longitude	89 59 1.5705060
Ellipsoid Height (M):	45.327 0.0110
Geoid Height (M):	-27.694 0.0110

Location Description
TO REACH FROM THE JCT. OF HWY 140 AND HWY 61 IN OSCEOLA, HEAD SOUTH ON HWY 61 FOR 0.65 MILES TO RICHARD E PREWITT DR. HEAD WEST/RIGHT ON RICHARD E PREWITT DR FOR 0.1 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470036 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470036A	Date Monumented 4/25/2023	Monumented By ARDOT	County MISSISSIPPI	Route 61	Job Number: 101141
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	152,405.5526	0.0010			
Easting (M)	582,684.2498	0.0020			
Elevation (M)*					
Northing (SFT)	500,017.2172				
Easting (SFT)	1,911,689.9096				
Elevation (SFT)*					

Convergence Angle	1	10	28.5181016
Scale Factor	0.999937639		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE	173	4.80	15.7
MK # 2	RAILROAD SIGNAL POLE	112	13.50	44.3
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	LT:35.4125 LG:89.5853
Ref Mon # 2 ARPG	
Ref Mon # 3 ARWM, MOKE	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 41 24.7120188
Longitude	89 58 53.2455096
Ellipsoid Height (M):	45.498 0.0110
Geoid Height (M):	-27.696 0.0110

Location Description
<p>TO REACH FROM THE JCT. OF HWY 140 AND HWY 61 IN OSCEOLA, HEAD SOUTH ON HWY 61 FOR 0.45 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470036A 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station M 326	Date Monumented 6/9/2009	Monumented By ARDOT	County POPE	Route 6th Street	Job Number: 080686
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	103,754.6182	0.0010	
Easting (M)	299,544.3928	0.0010	
Elevation (M)*	114.922	0.0010	
Northing (SFT)	340,401.6099		
Easting (SFT)	982,755.2287		
Elevation (SFT)*	377.040		

Convergence Angle	0	38	32.8049170
Scale Factor	0.999951515		
Elevation Adjust. Factor	0.9999819653		
Combined Adjust. Factor	0.9999334812		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	270	21.10	69.2
MK # 2	CL 16TH STREET	180	11.10	36.4
MK # 3	CL DAYTON AVENUE	90	18.50	60.7

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 20%;">Ref Mon # 1</td> <td>ARRV</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARDV</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARCW</td> </tr> </table>	Ref Mon # 1	ARRV	Ref Mon # 2	ARDV	Ref Mon # 3	ARCW	Comments <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
Ref Mon # 1	ARRV						
Ref Mon # 2	ARDV						
Ref Mon # 3	ARCW						

Vertical Determined By:	1st Order - NGS
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	35 15 48.5181576
Longitude	93 6 14.5804824
Ellipsoid Height (M):	85.794 0.0000
Geoid Height (M):	-29.128

Location Description
FROM THE INTERSECTION OF US HIGHWAY 64 AND STATE ROAD 324 EAST OF RUSSELLVILLE, GO EAST ON ROAD 324 FOR 0.45 MILES TO MACON AVENUE ON THE RIGHT. TURN RIGHT ON AVENUE AND GO 0.5 MILES UNTIL MACON AVENUE TURNS INTO 16TH STREET IN A CURVE. CONTINUE ON 16TH STREET FOR 0.5 MILES TO A STOP SIGN AT HIGHWAY 331. CONTINUE ON 16TH STREET FOR 0.05 MILES TO THE STATION ON THE LEFT. BENCHMARK DISK STAMPED "M 326 2009" SET 1.6 FEET WEST OF THE CL OF A DROP INLET.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450009	Date Monumented 5/31/2023	Monumented By ARDOT	County MARION	Route 62/412	Job Number: 090640
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	211,255.9836 0.0010
Easting (M)	321,227.0303 0.0010
Elevation (M)*	325.362 0.0026
Northing (SFT)	693,095.6729
Easting (SFT)	1,053,892.3486
Elevation (SFT)*	1,067.458

Convergence Angle	0 30 35.6577580
Scale Factor	1.000000199
Elevation Adjust. Factor	0.9999489427
Combined Adjust. Factor	0.9999491417

SUPERCEDED CONTROL			
Horizontal Datum	NAD83(2011)		
Latitude	36 14	3.5513376	
Longitude	92 52	34.5979128	
Ellipsoid Height:	296.943		
Grid Northing (Meters)	211,255.9842		
Grid Easting (Meters)	321,227.0296		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END 18" CORRIGATED META PIPEL MP	118	9.14	30.0
MK # 2	LIGHT POLE	10	30.18	99.0
MK # 3	STEEL FENCE CORNER	252	36.88	121.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHR Ref Mon # 2 ARM3 Ref Mon # 3 P777	Comments ELEV BASED ON DIGITAL LEVELS FROM TBM 906 AND PN:20 IN JOB 090581 BY CREW S5101 DURING JOB 090640 IN JUNE 2023.
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Location Description			
FROM THE INTERSECTION OF U.S. HIGHWAY 62/412 ARKANSAS AND STATE HWY 125 SOUTH NEAR PYATT, MARION COUNTY ARKANSAS. TRAVEL WEST ALONG U.S. HIGHWAY 62/412 FOR 1.5 MILES TO THE STATION ON THE RIGHT. THE STATION IS A STANDARD 2.5" ARDOT GPS CAP STAMPED 450009, 2023, SET FLUSH WITH THE GROUND ON TOP OF A 5/8 INCH REBAR, 4 FT. IN LENGTH. THE STATION IS FEET NORTH OF THE CENTERLINE OF U. S. HIGHWAY 62/ 412, 57 FEET WEST OF THE CENTERLINE OF A CONCRETE DRIVEWAY LEADING TO A ONE STORY BLOCK BUILDING .			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450009A	Date Monumented 5/31/2023	Monumented By ARDOT	County MARION	Route 62/412	Job Number: 090640
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	211,357.4767 0.0010
Easting (M)	321,688.8695 0.0010
Elevation (M)*	325.275 0.0031
Northing (SFT)	693,428.6548
Easting (SFT)	1,055,407.5660
Elevation (SFT)*	1,067.171

Convergence Angle	0 30 24.9169429
Scale Factor	1.000000387
Elevation Adjust. Factor	0.9999489564
Combined Adjust. Factor	0.9999493434

SUPERCEDED CONTROL			
Horizontal Datum	NAD83(2011)		
Latitude	36 14	6.9769140	
Longitude	92 52	16.1397156	
Ellipsoid Height:	296.853		
Grid Northing (Meters)	211,357.4773		
Grid Easting (Meters)	321,688.8685		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	204	5.49	18.0
MK # 2	TELEPHONE PEDESTAL	219	7.01	23.0
MK # 3	COMBINATION POLE	345	27.74	91.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHR Ref Mon # 2 ARM3 Ref Mon # 3 P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV BASED ON DIGITAL LEVELS FROM TBM 906 AND PN:20 IN JOB 090581 BY CREW S5101 DURING JOB 090640 IN JUNE 2023.</td> </tr> </table>	Comments	ELEV BASED ON DIGITAL LEVELS FROM TBM 906 AND PN:20 IN JOB 090581 BY CREW S5101 DURING JOB 090640 IN JUNE 2023.
Comments			
ELEV BASED ON DIGITAL LEVELS FROM TBM 906 AND PN:20 IN JOB 090581 BY CREW S5101 DURING JOB 090640 IN JUNE 2023.			

Location Description	
FROM THE INTERSECTION OF U.S. HIGHWAY 62/412 ARKANSAS AND STATE HWY 125 SOUTH NEAR PYATT, MARION COUNTY ARKANSAS. TRAVEL WEST ALONG U.S. HIGHWAY 62/412 FOR 1.2 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 2.5" ARDOT GPS CAP STAMPED 450009, 2023, SET FLUSH WITH THE GROUND ON TOP OF A 5/8 INCH REBAR, 4 FT. IN LENGTH. THE STATION IS FEET SOUTH OF THE CENTERLINE OF U. S. HIGHWAY 62/ 412 AT THE TOP OF THE EMBANKMENT, 33 FEET NORTH OF THE CENTERLINE OF A GRAVEL DRIVEWAY IN FRONT OF A BLUE METAL BUILDING .	

Vertical Determined By:	3rd Order - 3 Wire Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	36 14 6.9768960
Longitude	92 52 16.1396760
Ellipsoid Height (M):	296.860 0.0000
Geoid Height (M):	-28.405

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450010	Date Monumented 5/31/2023	Monumented By ARDOT	County MARION	Route 62/412	Job Number: 090640
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	212,164.2569 0.0010
Easting (M)	324,098.6538 0.0010
Elevation (M)*	256.996 0.0028
Northing (SFT)	696,075.5662
Easting (SFT)	1,063,313.6667
Elevation (SFT)*	843.161

Convergence Angle	0 29 28.9247607
Scale Factor	1.000001875
Elevation Adjust. Factor	0.9999596706
Combined Adjust. Factor	0.9999615455

SUPERCEDED CONTROL			
Horizontal Datum	NAD83(2011)		
Latitude	36	14	33.8314236
Longitude	92	50	39.9166080
Ellipsoid Height:	228.589		
Grid Northing (Meters)	212,164.2570		
Grid Easting (Meters)	324,098.6511		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	57	26.52	87.0
MK # 2	SOUTHWEST CORNER OF BLOCK CHURCH	337	26.21	86.0
MK # 3				

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Area Reference Monuments (used for Processing)</th> </tr> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARM3</td> </tr> <tr> <td>Ref Mon # 3</td> <td>P777</td> </tr> </table>	Area Reference Monuments (used for Processing)		Ref Mon # 1	ARHR	Ref Mon # 2	ARM3	Ref Mon # 3	P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV BASED ON DIGITAL LEVELS FROM TBM 906 AND PN:20 IN JOB 090581 BY CREW S5101 DURING JOB 090640 IN JUNE 2023.</td> </tr> </table>	Comments	ELEV BASED ON DIGITAL LEVELS FROM TBM 906 AND PN:20 IN JOB 090581 BY CREW S5101 DURING JOB 090640 IN JUNE 2023.
Area Reference Monuments (used for Processing)											
Ref Mon # 1	ARHR										
Ref Mon # 2	ARM3										
Ref Mon # 3	P777										
Comments											
ELEV BASED ON DIGITAL LEVELS FROM TBM 906 AND PN:20 IN JOB 090581 BY CREW S5101 DURING JOB 090640 IN JUNE 2023.											

Location Description	
<p>FROM THE INTERSECTION OF U.S. HIGHWAY 62/412 ARKANSAS AND STATE HWY 125 SOUTH NEAR PYATT, MARION COUNTY ARKANSAS. TRAVEL EAST ALONG U.S. HIGHWAY 62/412 FOR 0.4 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 2.5" ARDOT GPS CAP STAMPED 450010, 2023, SET FLUSH WITH THE GROUND ON TOP OF A 5/8 INCH REBAR, 4 FT. IN LENGTH. THE STATION IS FEET 62 FEET NORTH OF THE CENTERLINE OF U. S. HIGHWAY 62/412 AT THE TOP OF THE EMBANKMENT, 71 FEET WEST OF THE CENTERLINE OF A ASPHALT DRIVEWAY LEADING TO A ONE STORY BLOCK CHURCH.</p>	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	36 14 33.8314200
Longitude	92 50 39.9165000
Ellipsoid Height (M):	228.590 0.0050
Geoid Height (M):	-28.419

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610016	Date Monumented 8/10/2023	Monumented By ARDOT	County RANDOLPH	Route 62	Job Number: 101150
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	212,464.2078	0.0010			
Easting (M)	483,875.7111	0.0010			
Elevation (M)*					
Northing (SFT)	697,059.6551				
Easting (SFT)	1,587,515.5622				
Elevation (SFT)*					

Convergence Angle	0	32	34.8275951		
Scale Factor	1.000002288				
Elevation Adjust. Factor					
Combined Adjust. Factor					

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH FROM THE JCT. OF HWY 62 AND HWY 67 IN POCAHONTAS, HEAD WEST ON HWY 62 FOR 5.8 MILES TO THE STATION ON THE LEFT. THE STATION IS 46.7FT SOUTH OF THE CENTERLINE OF HWY 62, AND 20.6FT EAST OF THE CENTERLINE OF A PAVED DW TO A HOUSE. THE STATION MARK IS A 2 1/2IN CAP STAMPED "610016 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	MAILBOX	200		11.60	38.1
MK # 2	POWER POLE	259		22.80	74.8
MK # 3	BUILDING CORNER	353		14.30	46.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT Ref Mon # 2 ARHL Ref Mon # 3 ARM3, ARPG	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 610016A	Date Monumented 8/10/2023	Monumented By ARDOT	County RANDOLPH	Route 62	Job Number: 101150
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	212,397.5044	0.0010			
Easting (M)	483,456.5289	0.0010			
Elevation (M)*					
Northing (SFT)	696,840.8124				
Easting (SFT)	1,586,140.2952				
Elevation (SFT)*					

Convergence Angle	0	32	25.0439549
Scale Factor	1.000002174		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	MAILBOX	316	20.40	66.9	610016
MK # 2	POWER POLE	341	7.90	25.9	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARBT	
Ref Mon # 2: ARHL	
Ref Mon # 3: ARM3, ARPG	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	36 14 39.1916688
Longitude	91 4 17.4207432
Ellipsoid Height (M):	73.265 0.0050
Geoid Height (M):	-28.279

Location Description
<p>TO REACH FROM THE JCT. OF HWY 62 AND HWY 67 IN POCAHONTAS, HEAD WEST ON HWY 62 FOR 6.05 MILES TO THE STATION ON THE LEFT. THE STATION IS 47.4FT SOUTH OF THE CENTERLINE OF HWY 62, AND 43.4FT WEST OF THE CENTERLINE OF A PAVED DRIVEWAY. THE STATION MARK IS A 2 1/2IN CAP STAMPED "610016A 2023" SET ON TOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450011	Date Monumented 8/16/2023	Monumented By ARDOT	County Marion	Route 62/412	Job Number: 090640
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	213,613.4196	0.0010	
Easting (M)	328,381.7508	0.0010	
Elevation (M)*	301.629	0.0037	
Northing (SFT)	700,830.0275		
Easting (SFT)	1,077,365.7941		
Elevation (SFT)*	989.593		

Convergence Angle	0	27	49.3825331
Scale Factor	1.000004586		
Elevation Adjust. Factor	0.9999526669		
Combined Adjust. Factor	0.9999572527		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE PEDESTAL	219	7.01	23.0
MK # 2	PIPE FENCE CORNER	185	13.71	45.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHR Ref Mon # 2 ARM3 Ref Mon # 3 P777	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM L37 DURING JOB 090640 BY CREW S5101 IN SEPT. 2023.</td> </tr> </table>	Comments	ELEV. BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM L37 DURING JOB 090640 BY CREW S5101 IN SEPT. 2023.
Comments			
ELEV. BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM L37 DURING JOB 090640 BY CREW S5101 IN SEPT. 2023.			

Location Description	
FROM THE INTERSECTION OF U.S. HWY. 62/412 AND MARION COUNTY ROAD 3026 LOCATED IN MARION COUNTY ARKANSAS TRAVEL NORTH ALONG MARION COUNTY ROAD 3026 0.4 MILES TO THE STATION ON THE RIGHT THE STATION IS A STANDARD 2.5 INCH ARDOT GPS MONUMENT STAMPED 450011, 2023 SET ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH THE STATION IS 31 FEET (9.44M) EAST OF THE CENTERLINE OF MARION COUNTY ROAD 3026 12 FEET (3.66M) WEST OF A BARBED WIRE FENCE AND 63 FEET (19.20M) NORTH OF THE CENTER OF A GRAVEL DRIVEWAY	

AZ Mark Station	450011A
Geodetic Azimuth	20°48'07.4"
Grid Azimuth	21°15'57.7"

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450011A	Date Monumented 8/16/2023	Monumented By ARDOT	County Marion	Route 62/412	Job Number: 090640
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	214,032.0418	0.0010	
Easting (M)	328,544.6795	0.0010	
Elevation (M)*	306.579	0.0009	
Northing (SFT)	702,203.4571		
Easting (SFT)	1,077,900.3360		
Elevation (SFT)*	1,005.834		

Convergence Angle	0	27	45.6637159
Scale Factor	1.000005363		
Elevation Adjust. Factor	0.9999518901		
Combined Adjust. Factor	0.9999572529		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE PEDESTAL	315	7.31	24.0
MK # 2	COMBINATION POLE WITH LIGHT	330	8.53	28.0
MK # 3	TELEPHONE PEDESTAL	212	36.27	119.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR Ref Mon # 2 ARM3 Ref Mon # 3 P777	ELEV. BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM L37 DURING JOB 090640 BY CREW S5101 IN SEPT. 2023.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	36 15 35.6266440
Longitude	92 47 42.4612680
Ellipsoid Height (M):	278.161 0.0060
Geoid Height (M):	-28.413

Location Description
FROM THE INTERSECTION OF U.S. HWY. 62/412 AND ARKANSAS STATE HWY. 125 NORTH LOCATED IN MARION COUNTY ARKANSAS TRAVEL WEST ALONG U.S. HWY. 62/412 0.3 MILES TO THE STATION ON THE RIGHT THE STATION IS A STANDARD 2.5 INCH ARDOT GPS MONUMENT STAMPED 450012, 2023 SET ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH THE STATION IS 50 FEET (15.24M) NORTH OF THE CENTERLINE OF U.S. HWY. 62/412 AND 48 FEET (14.63M) WEST OF THE CENTER OF A GRAVEL DRIVEWAY

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450012	Date Monumented 8/16/2023	Monumented By ARDOT	County Marion	Route 62/412	Job Number: 090640
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	213,099.2175 0.0010
Easting (M)	332,152.4456 0.0010
Elevation (M)*	197.741 0.0033
Northing (SFT)	699,143.0161
Easting (SFT)	1,089,736.8153
Elevation (SFT)*	648.757

Convergence Angle	0 26 21.4013332
Scale Factor	1.000003695
Elevation Adjust. Factor	0.9999689689
Combined Adjust. Factor	0.9999726638

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	320	9.14	30.0
MK # 2	COMBINATION POLE	64	31.70	104.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHR Ref Mon # 2 ARM3 Ref Mon # 3 P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM L37 DURING JOB 090640 BY CREW S5101 IN SEPT. 2023.</td> </tr> </table>	Comments	ELEV. BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM L37 DURING JOB 090640 BY CREW S5101 IN SEPT. 2023.
Comments			
ELEV. BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM L37 DURING JOB 090640 BY CREW S5101 IN SEPT. 2023.			

Location Description
FROM THE INTERSECTION OF U.S. HWY. 62/412 AND ARKANSAS STATE HWY. 125 NORTH LOCATED IN MARION COUNTY ARKANSAS TRAVEL WEST ALONG U.S. HWY. 62/412 0.3 MILES TO THE STATION ON THE RIGHT THE STATION IS A STANDARD 2.5 INCH ARDOT GPS MONUMENT STAMPED 450012, 2023 SET ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH THE STATION IS 50 FEET (15.24M) NORTH OF THE CENTERLINE OF U.S. HWY. 62/412 AND 48 FEET (14.63M) WEST OF THE CENTER OF A GRAVEL DRIVEWAY

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450012A	Date Monumented 8/16/2023	Monumented By ARDOT	County Marion	Route 62/412	Job Number: 090640
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	213,302.5375	0.0010	
Easting (M)	332,700.4286	0.0010	
Elevation (M)*	200.576	0.0034	
Northing (SFT)	699,810.0751		
Easting (SFT)	1,091,534.6562		
Elevation (SFT)*	658.057		

Convergence Angle	0	26	8.6653954
Scale Factor	1.000004076		
Elevation Adjust. Factor	0.9999685241		
Combined Adjust. Factor	0.9999725999		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST BRIDGE CORNER	110	1.52	5.0
MK # 2	WEST END OF GUARD RAIL	240	4.57	15.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHR Ref Mon # 2 ARM3 Ref Mon # 3 P777	ELEV. BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM L37 DURING JOB 090640 BY CREW S5101 IN SEPT. 2023.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650052	Date Monumented 2/5/2024	Monumented By ARDOT	County Sebastian	Route 10	Job Number: 04651
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	98,119.1424	0.0010	
Easting (M)	185,336.1051	0.0010	
Elevation (M)*			
Northing (SFT)	321,912.5530		
Easting (SFT)	608,056.8715		
Elevation (SFT)*			

Convergence Angle	-1	22	18.3961202
Scale Factor	0.999958919		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	12" Steel Culvert	277	4.20	13.8
MK # 2	Steel Fence Post	171	3.30	10.8
MK # 3	Combination Pole	84	23.60	77.4

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	STATIC DERIVED ELEV. IS 568.4050 US FEET
Ref Mon # 2 ARFS	
Ref Mon # 3 ARFY, ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 650052A	Date Monumented 2/5/2024	Monumented By ARDOT	County Sebastian	Route 10	Job Number: 04651
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	97,682.7451 0.0010
Easting (M)	185,463.8714 0.0010
Elevation (M)*	
Northing (SFT)	320,480.8062
Easting (SFT)	608,476.0514
Elevation (SFT)*	

Convergence Angle	-1	22	15.2177834
Scale Factor	0.999959381		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	24" 5' Tall stump	180	4.90	16.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	DIGITAL LEVELED ELEV. FROM 650052A STATIC DERIVED ELEV. IS 537.4235 US FEET (STATIC DERIVED ELEV. IS 537.4218 US FEET)
Ref Mon # 2 ARFS	
Ref Mon # 3 ARFY, ARRV	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 11 26.4725304
Longitude	94 21 21.2256036
Ellipsoid Height (M):	133.138 0.0050
Geoid Height (M):	-30.669 0.0050

Location Description
<p>To reach from the intersection of Highway 71 and Highway 10 in Greenwood. Go West on Highway 10 for 3.80 miles to Reeves Rd. on the Left/South. Go South on Reeves Rd. for 0.3 miles to the station on the Right/West. The station is 17.8 ft. West of the centerline of Reeves Rd., 4ft. East of a 5 strand barbwire fence, and 4ft. East of a witness post. The station mark is a 2 1/2in. aluminium cap stamped "650052A 2024" and set on top of a 5/8in. by 4ft. rebar driven 0.10in. below the surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720073	Date Monumented 2/20/2024	Monumented By ARDOT	County WASHINGTON	Route I-49	Job Number: 040925
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	160,660.7266 0.0020
Easting (M)	201,706.2191 0.0020
Elevation (M)*	

Northing (SFT)	527,101.0672	
Easting (SFT)	661,764.4872	
Elevation (SFT)*		

Convergence Angle	-1	16	33.9659533
Scale Factor	0.999940708		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I-49 AND EAST FRONT AVE. IN CHESTER, GO NORTH ON I-49 FOR 7.15 MILES TO THE STATION ON THE RIGHT/EAST. THE STATION MARK IS 7FT EAST OF THE EAST EDGE OF I-49. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720073 2024" AND SET ON TOP OF A 4 FT BY 5/8 IN REBAR DRIVEN 0.10 IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FRENCH DRAIN OUTLET		70.00	229.7
MK # 2				
MK # 3				

AZ Mark Station	720073A
Geodetic Azimuth	
Grid Azimuth	

**Area Reference Monuments
(used for Processing)**

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	ARRV

Comments

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720073A	Date Monumented 2/20/2024	Monumented By ARDOT	County WASHINGTON	Route I-49	Job Number: 040925
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	161,000.0498 0.0020
Easting (M)	201,891.3141 0.0020
Elevation (M)*	
Northing (SFT)	528,214.3301
Easting (SFT)	662,371.7530
Elevation (SFT)*	

Convergence Angle	-1	16	29.8540881
Scale Factor	0.999940876		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF I-49 AND EAST FRONT AVE. IN CHESTER, GO NORTH ON I-49 FOR 7.4 MILES TO THE STATION ON THE RIGHT/EAST. THE STATION MARK IS 9FT EAST OF THE EAST EDGE OF I-49. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720073 2024" AND SET ON TOP OF A 4FT BY 5/8 IN REBAR DRIVEN 0.10 IN BELOW THE SURFACE.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF SOUTHEAST GUARDRAIL		45.70	149.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARFS	<p>ELEV. = 1642.6825 US FT. FROM DIGITAL LEVELS FROM GPS #720073 STATIC DERIVED ELEV.</p>
Ref Mon # 2	ARFY	
Ref Mon # 3	ARRV	

AZ Mark Station	720073
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720074	Date Monumented 2/20/2024	Monumented By ARDOT	County WASHINGTON	Route I-49	Job Number: 040925
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	162,433.3796	0.0020			
Easting (M)	202,365.6452	0.0020			
Elevation (M)*					
Northing (SFT)	532,916.8462				
Easting (SFT)	663,927.9543				
Elevation (SFT)*					

Convergence Angle	-1	16	19.6054067
Scale Factor	0.999941615		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF I-49 AND EAST FRONT AVE. IN CHESTER, GO NORTH ON I-49 FOR 8.4 MILES TO THE STATION ON THE RIGHT/EAST. THE STATION MARK IS 34FT EAST OF THE EAST EDGE OF I-49. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720074 2024" AND SET ON TOP OF A 4 FT BY 5/8 IN REBAR DRIVEN 0.10 IN BELOW THE SURFACE.</p>			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	SOUTHEAST END OF BRIDGE		10.10	33.1	720074A
MK # 2	FRENCH DRAIN OUTLET		4.60	15.1	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 720074A	Date Monumented 2/20/2024	Monumented By ARDOT	County WASHINGTON	Route I-49	Job Number: 040925
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	162,039.4155	0.0020			
Easting (M)	202,335.0761	0.0020			
Elevation (M)*					
Northing (SFT)	531,624.3157				
Easting (SFT)	663,827.6622				
Elevation (SFT)*					

Convergence Angle	-1	16	20.1108489
Scale Factor	0.999941408		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF I-49 AND EAST FRONT AVE. IN CHESTER, GO NORTH ON I-49 FOR 8.15 MILES TO THE STATION ON THE RIGHT/EAST. THE STATION MARK IS 6FT EAST OF THE EAST EDGE OF I-49. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720074A 2024" AND SET ON TOP OF A 4FT BY 5/8 IN REBAR DRIVEN 0.10 IN BELOW THE SURFACE.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	NORTH END NORTHEAST GUARDRAIL		75.00	246.1	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1	ELEV. = 1562.9802 US FT. FROM DIGITAL LEVELS FROM GPS #720074 STATIC DERIVED ELEV.
Ref Mon # 2	
Ref Mon # 3	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290027	Date Monumented 2/28/2024	Monumented By AHTD	County Hempstead	Route 332	Job Number: 03X316
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD83(2011)				
Northing (M)	524,879.8952	0.0010			
Easting (M)	258,177.5012	0.0010			
Elevation (M)*	95.516	0.0055			
Northing (SFT)	1,722,043.4562				
Easting (SFT)	847,037.3519				
Elevation (SFT)*	313.371				

Convergence Angle	0	51	25.6245103
Scale Factor	0.999928040		
Elevation Adjust. Factor	0.9999850107		
Combined Adjust. Factor	0.9999130518		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fence Coner	255	22.00	72.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1: ARHP	ELEV DERIVED FROM STATIC OBS. HOLDING BM HOPE 1 TO GPS 290027A. 3WR DIGITAL LEVELS WERE RAN FROM 290027A HOLDING THE STATIC DERIVED ELEV DURING JOB 03X16 BY CREW S5102 IN FEB 2024.
Ref Mon # 2: ARDQ	
Ref Mon # 3: ARGS	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	33 46 58.9345428
Longitude	93 31 53.0888952
Ellipsoid Height (M):	68.542 0.0050
Geoid Height (M):	-26.969

Location Description
<p>In Hope AR Hempstead CO. Exit 31. Intersection of Hwy 32 and interstate 30 go north 1.1 Miles on hwy 32 to the intersection of Hwy 32 and Hwy 29. Go north on Hwy 29 for 5.4 miles to the intersection of Hwy 29 and Hwy 332 go East on Hwy 332 for 2.8 miles to the station on the right. The station is a standerd 2.5in. aluminum ARDOT GPS cap stamped 290027, 2024 set just below the surface of the ground ontop of a 5/8 rebar 4 ft. in length. The station is 22 ft. Southeast of the center of Hwy 332 and 10 ft. Northwest of a witness post. bb</p>

AZ Mark Station	290027A
Geodetic Azimuth	66 46 54
Grid Azimuth	65 55 28.4

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 290027A	Date Monumented 2/28/2024	Monumented By AHTD	County Hempstead	Route 332	Job Number: 03X316
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD83(2011)				
Northing (M)	525,036.4450	0.0010			
Easting (M)	258,557.9863	0.0010			
Elevation (M)*	95.223	0.0054			
Northing (SFT)	1,722,557.0700				
Easting (SFT)	848,285.6601				
Elevation (SFT)*	312.412				

Convergence Angle	0	51	17.3983615
Scale Factor	0.999927929		
Elevation Adjust. Factor	0.9999850566		
Combined Adjust. Factor	0.9999129866		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	Fence Coner	40	6.40	21.0	
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHP	ELEV DERIVED FROM STATIC OBS. HOLDING BM HOPE 1 TO GPS 290027A DURING JOB 03X16 BY CREW S5102 IN FEB 2024.
Ref Mon # 2 ARDQ	
Ref Mon # 3 ARGS	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460049	Date Monumented 2/26/2024	Monumented By AHTD	County Miller	Route 134	Job Number: 03X521
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD83(2011)				
Northing (M)	463,222.1490	0.0010			
Easting (M)	232,798.6934	0.0010			
Elevation (M)*	64.549	0.0062			
Northing (SFT)	1,519,754.6672				
Easting (SFT)	763,773.7133				
Elevation (SFT)*	211.773				

Convergence Angle	-1	0	14.1816272
Scale Factor	1.000017855		
Elevation Adjust. Factor	0.9999898703		
Combined Adjust. Factor	1.0000077252		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	West of West Gate Post	260	25.00	82.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARTX Ref Mon # 2 1LNT Ref Mon # 3 ARMB	ELEV DETERMINED BY STATIC OBS HOLDING BM C 259 DURING JOB 03X521 BY CREW S5102 IN FEB 2024.

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	33 13 24.4777476
Longitude	93 47 37.4625096
Ellipsoid Height (M):	37.887 0.0060
Geoid Height (M):	-26.662

Location Description
To reach from the intersection of Hwy 134 and Hwy 71 near Fouke in Miller county, travel east along Hwy 134 for 5.4 miles to the station on the left. The station is a standard 2.5in aluminum ARDOT GPS cap stamped 460049, 2024 set just below the surface of the ground on top of a 5/8in rebar 4ft in length. The station is 20ft north of the centerline of Hwy 134 and 82ft west of a witness post.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 460049A	Date Monumented 2/26/2024	Monumented By AHTD	County Miller	Route 134	Job Number: 03X521
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD83(2011)
Northing (M)	463,207.9254 0.0010
Easting (M)	233,211.6468 0.0010
Elevation (M)*	64.724 0.0063
Northing (SFT)	1,519,708.0019
Easting (SFT)	765,128.5445
Elevation (SFT)*	212.347

Convergence Angle	-1 0 5.2517773
Scale Factor	1.000017871
Elevation Adjust. Factor	0.9999898429
Combined Adjust. Factor	1.0000077137

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
To reach from the intersection of Hwy 134 and Hwy 71 near Fouke in Miller county, travel east along Hwy 134 for 5.7 miles to the station on the left. The station is a standard 2.5in aluminum ARDOT GPS cap stamped 460049A, 2024 set just below the surface of the ground on top of a 5/8in rebar 4ft in length. The station is 20ft north of the centerline of Hwy 134 and 3ft south of a witness post.			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	294	45.50	149.3
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARTX Ref Mon # 2 1LNT Ref Mon # 3 ARMB	Comments ELEV DETERMINED BY STATIC OBS HOLDING BM C 259 AND EST ELEV ON GPS 460049. DIGITAL LEVELS WERE RAN FROM 460049 TO EST ELEV ON 460049A DURING JOB 03X521 BY CREW S5102 IN FEB 2024.
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 550011	Date Monumented 3/4/2024	Monumented By AHTD	County Pike	Route 84	Job Number: 03X520
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD83(2011)		
Northing (M)	576,826.3879	0.0010	
Easting (M)	255,018.5791	0.0010	
Elevation (M)*	148.909	0.0085	
Northing (SFT)	1,892,471.2410		
Easting (SFT)	836,673.4549		
Elevation (SFT)*	488.547		

Convergence Angle	0	52	51.7199545
Scale Factor	0.999925581		
Elevation Adjust. Factor	0.9999766318		
Combined Adjust. Factor	0.9999022145		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	16in. Cedar Tree	42	20.00	65.6	550011A
MK # 2					44 12 12.5
MK # 3					45 5 4.2

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS	ELEV DETERMINED BY STATIC OBS HOLDING BM FUNDERBURK TO GPS 550011A. DIGITAL LEVELS WERE RAN FROM 550011A TO EST ELEV ON 550011 DURING JOB 03X520 BY CREW S5102 IN MARCH 2024.
Ref Mon # 2 ARHS	
Ref Mon # 3 ARDQ	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 550011A	Date Monumented 3/4/2024	Monumented By AHTD	County Pike	Route 84	Job Number: 03X520
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Zone Arkansas South	Zone Code 302		
Horizontal Datum	NAD83(2011)		
Northing (M)	577,125.9704	0.0010	
Easting (M)	255,319.0494	0.0010	
Elevation (M)*	143.873	0.0085	
Northing (SFT)	1,893,454.1212		
Easting (SFT)	837,659.2479		
Elevation (SFT)*	472.022		

Convergence Angle	0	52	45.2482439
Scale Factor	0.999925763		
Elevation Adjust. Factor	0.9999774222		
Combined Adjust. Factor	0.9999031869		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	
			Meters	Feet		
MK # 1	Power pole	101	40.50	132.9		550011
MK # 2						224 12 12.5
MK # 3						225 4 57.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS Ref Mon # 2 ARHS Ref Mon # 3 ARDQ	ELEV DETERMINED BY STATIC OBS HOLDING BM FUNDERBURK DURING JOB 03X520 BY CREW S5102 IN MARCH 2024.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470039	Date Monumented 2/27/2024	Monumented By ARDOT	County Mississippi	Route 120	Job Number: 10X746
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	164,532.7282	0.0030	
Easting (M)	596,354.5348	0.0030	
Elevation (M)*	76.661	0.0091	
Northing (SFT)	539,804.4591		
Easting (SFT)	1,956,539.8363		
Elevation (SFT)*	251.512		

Convergence Angle	1	15	51.0320874
Scale Factor	0.999942797		
Elevation Adjust. Factor	0.9999879695		
Combined Adjust. Factor	0.9999307672		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	180	5.18	17.0
MK # 2	Power Pole With Transformers	120	11.58	38.0
MK # 3	Ease end 18 inch metal culvert	232	7.31	24.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG Ref Mon # 2 AROC Ref Mon # 3 TN45	ELEV EST. BY DIGITAL LEVELS FROM BM Z 213 BY CREW S5101 DURING JOB 10X176 IN FEB. 2024.

Location Description			
From the intersection on U.S. Highway 61 and Arkansas State Highway 158 near Luxora in Mississippi County, Arkansas, travel North along U. S. Highway 61 for 2.17 Miles to the intersection of U.S. Highway 61 and Arkansas State Highway 120 on the Right, then travel East along Arkansas State Highway 120 for 6.63 Miles to the station on the Right. The Station is a standard 2.5 inch AHTD GPS cap stamped 470039 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 23 feet (7.01 Meters) South of the centerline of Arkansas State Highway 120 and 16 feet (4.88 Meters) North of a witness post.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station Z 213	Date Monumented 5/29/1905	Monumented By NGS	County Mississippi	Route 120	Job Number: 10X746
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	164,757.0276 0.0030
Easting (M)	596,905.1474 0.0020
Elevation (M)*	82.354 0.0000
Northing (SFT)	540,540.3481
Easting (SFT)	1,958,346.3044
Elevation (SFT)*	270.190

Convergence Angle	1 16 3.9048327
Scale Factor	0.999942921
Elevation Adjust. Factor	0.9999870761
Combined Adjust. Factor	0.9999299979

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Levee Mile Marker 66/67	280	0.45	1.5
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG Ref Mon # 2 AROC Ref Mon # 3 TN45	ELEV EST BY NGS BY DIFFERENTIAL LEVELING IN JUNE 1991.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100037	Date Monumented 3/5/2024	Monumented By AHTD	County Clark	Route 67	Job Number: 07X273
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD83(2011)
Northing (M)	555,644.5484 0.0010
Easting (M)	298,718.3872 0.0010
Elevation (M)*	81.546 0.0000
Northing (SFT)	1,822,977.1559
Easting (SFT)	980,045.2420
Elevation (SFT)*	267.538

Convergence Angle	0 36 50.8334829
Scale Factor	0.999918612
Elevation Adjust. Factor	0.9999872030
Combined Adjust. Factor	0.9999058160

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	32	53.30	174.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARGS Ref Mon # 2 ARHS Ref Mon # 3 ARSH	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. EST BY DIGITAL LEVEL RUN FROM BM C 354 DURING JOB 07X273 BY CREW S5102 IN MARCH 2024</td> </tr> </table>	Comments	ELEV. EST BY DIGITAL LEVEL RUN FROM BM C 354 DURING JOB 07X273 BY CREW S5102 IN MARCH 2024
Comments			
ELEV. EST BY DIGITAL LEVEL RUN FROM BM C 354 DURING JOB 07X273 BY CREW S5102 IN MARCH 2024			

Location Description
To reach from the intersection of I-30 and Hwy 26 at exit 69, travel 1.6 miles on Hwy 26 to the intersection of Hwy 67 and Hwy 26. From the intersection of Hwy 67 and Hwy 26 travel 0.3 miles to the station on the left. The station is a standard 2.5in aluminum ARDOT GPS cap stamped 100037, 2024 set just below the surface of the ground on top of a 5/8in rebar 4ft in length. The station is 70ft west of the centerline of Hwy 67 and 39ft east of a witness post.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 100037A	Date Monumented 3/5/2024	Monumented By AHTD	County Clark	Route 67	Job Number: 07X273
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD83(2011)
Northing (M)	556,087.7944 0.0010
Easting (M)	298,798.5862 0.0010
Elevation (M)*	64.898 0.0000
Northing (SFT)	1,824,431.3721
Easting (SFT)	980,308.3616
Elevation (SFT)*	212.919

Convergence Angle	0 36 49.1866114
Scale Factor	0.999918652
Elevation Adjust. Factor	0.9999898155
Combined Adjust. Factor	0.9999084684

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	North End of 18in RCP	333	25.60	84.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARGS	ELEV. EST BY DIGITAL LEVEL RUN FROM BM C 354 DURING JOB 07X273 BY CREW S5102 IN MARCH 2024
Ref Mon # 2 ARHS	
Ref Mon # 3 ARSH	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470040A	Date Monumented 3/4/2024	Monumented By ARDOT	County Mississippi	Route 239	Job Number: 10X584
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD83(2011)		
Northing (M)	176,917.5017	0.0010	
Easting (M)	580,173.5776	0.0010	
Elevation (M)*	74.189	0.0061	
Northing (SFT)	580,436.8368		
Easting (SFT)	1,903,452.8125		
Elevation (SFT)*	243.402		

Convergence Angle	1	9	41.9221321
Scale Factor	0.999952204		
Elevation Adjust. Factor	0.9999883574		
Combined Adjust. Factor	0.9999405620		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	13	5.18	17.0
MK # 2	East End of a 18" Metal Culvert	209	17.37	57.0
MK # 3	West End of a 18" Metal Culvert	163	17.37	57.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG	ELEV WAS EST BY STATIC OBS HOLDING BM J 189 TO GPS 470040. DIGITAL LEVELS WERE RAN HOLDING ELEV OF 470040 TO EST ELEV ON 470040A DURING JOB 10X584 BY CREW S5101 IN MARCH 2024.
Ref Mon # 2 AROC	
Ref Mon # 3 ARJB	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	35 54 41.5545804
Longitude	90 0 13.3211916
Ellipsoid Height (M):	46.121 0.0040
Geoid Height (M):	-28.071

Location Description
<p>From the intersection of U. S. Hwy 61 and Arkansas State Highway 18 on the West Side of Blytheville, Mississippi County Arkansas, travel West along State Highway 61 for 1.3 miles to the Intersection with Arkansas State Highway 239 on the Right, then travel West along Arkansas State Highway 239 for 4.0 Miles to the station on the Right. The Station is a standard 2.5 inch AHTD GPS cap stamped 470040A (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 24 feet (7.32 Meters) North of the centerline of Arkansas State Highway 239 and 16 feet (4.88 Meters) South of a witness post.</p>

AZ Mark Station	470040
Geodetic Azimuth	272 30 54.9
Grid Azimuth	271 21 13

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470040	Date Monumented 4/4/2024	Monumented By ARDOT	County Mississippi	Route 239	Job Number: 10X584
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD83(2011)		
Northing (M)	176,931.5189	0.0010	
Easting (M)	579,582.0197	0.0010	
Elevation (M)*	73.548	0.0012	
Northing (SFT)	580,482.8249		
Easting (SFT)	1,901,512.0096		
Elevation (SFT)*	241.300		

Convergence Angle	1	9	28.2020840
Scale Factor	0.999952227		
Elevation Adjust. Factor	0.9999884580		
Combined Adjust. Factor	0.9999406855		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	357	2.74	9.0
MK # 2	West End of a 18" Culvert	95	31.09	102.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 AROC Ref Mon # 3 ARJB	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV WAS EST BY STATIC OBS HOLDING BM J 189 DURING JOB 10X584 BY CREW S5101 IN MARCH 2024.</td> </tr> </table>	Comments	ELEV WAS EST BY STATIC OBS HOLDING BM J 189 DURING JOB 10X584 BY CREW S5101 IN MARCH 2024.
Comments			
ELEV WAS EST BY STATIC OBS HOLDING BM J 189 DURING JOB 10X584 BY CREW S5101 IN MARCH 2024.			

Location Description
From the intersection of U. S. Hwy 61 and Arkansas State Highway 18 on the West Side of Blytheville, Mississippi County Arkansas, travel West along State Highway 61 for 1.3 miles to the Intersection with Arkansas State Highway 239 on the Right, then travel West along Arkansas State Highway 239 for 4.4 Miles to the station on the Right. The Station is a standard 2.5 inch AHTD GPS cap stamped 470040 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 33 feet (7.32 Meters) North of the centerline of Arkansas State Highway 239 and 6 feet (1.83 Meters) South of a witness post.

AZ Mark Station	470040A
Geodetic Azimuth	92 30 54.9
Grid Azimuth	91 21 26.7

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 520009	Date Monumented 3/12/2024	Monumented By AHTD	County OUACHITA	Route 79B	Job Number: 07X275
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Zone	Zone Code				
Arkansas South	302				
Horizontal Datum	NAD83(2011)				
Northing (M)	503,556.5281	0.0010			
Easting (M)	324,128.9511	0.0010			
Elevation (M)*	35.827	0.0091			
Northing (SFT)	1,652,085.0426				
Easting (SFT)	1,063,413.0671				
Elevation (SFT)*	117.542				

Convergence Angle	0	27	27.1054548		
Scale Factor	0.999947345				
Elevation Adjust. Factor	0.9999943776				
Combined Adjust. Factor	0.9999417229				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>To reach from the intersection of Highway 7 and Highway 79B, near Camden, Ouachita County, Arkansas; the point is on the Southwest corner of the intersection. The station is a standard 2.5in aluminum ARDOT GPS cap stamped 520009, 2024 set just below ground surface on top of a 5/8in rebar 4ft in length. The station is 9ft Northwest of a witness post, 28ft Northwest of the centerline of Highway 79B, and 77ft Southwest of the centerline of Highway 7.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	NW CORNER OF NE BRIDGE END		27	22.00	72.2
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)		Comments
Ref Mon # 1	ARCM	<p>ELEV EST. BY STATIC OBS ON GPS 520009A HOLDING BM G 338 DIGITAL LEVELS WERE RAN HOLDING ELEV DERIVED ON GPS 520009A DURING JOB 07X275 BY CREW S5102 IN MARCH 2024.</p>
Ref Mon # 2	ARGS	
Ref Mon # 3	AREL	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 520009A	Date Monumented 3/12/2024	Monumented By AHTD	County OUACHITA	Route 7	Job Number: 07X275
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD83(2011)				
Northing (M)	503,810.1526	0.0010			
Easting (M)	323,835.7714	0.0010			
Elevation (M)*	32.582				
Northing (SFT)	1,652,917.1423				
Easting (SFT)	1,062,451.1933				
Elevation (SFT)*	106.896				

Convergence Angle	0	27	33.5140389		
Scale Factor	0.999947047				
Elevation Adjust. Factor	0.9999948869				
Combined Adjust. Factor	0.9999419341				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>To reach from the intersection of Highway 7 and Highway 79B near Camden, Ouachita County, Arkansas; travel North along Highway 7 for 0.2 miles to the station on the left. The station is a standard 2.5in aluminum ARDOT GPS cap stamped 520009A, 2024 set just below ground surface on top of a 5/8in rebar 4ft in length. The station is 69ft Northeast of a witness post and 30ft Southwest of the centerline of Highway 7.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	HISTORICAL MARKER	290		73.00	239.5
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 ARGS Ref Mon # 3 AREL	ELEV EST. BY STATIC OBS HOLDING BM G 338 DURING JOB 07X275 BY CREW S5102 IN MARCH 2024.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420010	Date Monumented 3/4/2024	Monumented By ARDOT	County LOGAN	Route 23	Job Number: 08X377
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	89,257.1691	0.0010	
Easting (M)	224,418.4247	0.0010	
Elevation (M)*			
Northing (SFT)	292,837.8956		
Easting (SFT)	736,279.4484		
Elevation (SFT)*			

Convergence Angle	-1	7	15.5646287
Scale Factor	0.999968216		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL FENCE POST	118	1.00	3.3
MK # 2	METAL FENCE POST	249	4.00	13.1
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARDQ Ref Mon # 2 ARFS Ref Mon # 3 ARFY, ARRV	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC DERIVED ELEV. 481.6486 US FT. CONSTRAINED ORTHOMETRIC HTS. ON ARDOT CORS ARDQ, ARFS, ARFY & ARRV </td> </tr> </table>	Comments	STATIC DERIVED ELEV. 481.6486 US FT. CONSTRAINED ORTHOMETRIC HTS. ON ARDOT CORS ARDQ, ARFS, ARFY & ARRV
Comments			
STATIC DERIVED ELEV. 481.6486 US FT. CONSTRAINED ORTHOMETRIC HTS. ON ARDOT CORS ARDQ, ARFS, ARFY & ARRV			

Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: Geoid 18

Latitude 35 7 20.6117040

Longitude 93 55 35.1618420

Ellipsoid Height (M): 116.585 0.0050

Geoid Height (M): -30.222 0.0050

Location Description

TO REACH THE STATION MARK FROM THE INTERSECTION OF STATE HIGHWAY 10 AND 23, IN BOONEVILLE, GO SOUTH ON HIGHWAY 23 FOR 1.2 MILES TO CAROLAN RD., GO RIGHT/WEST FOR 0.15 MILES TO THE STATION ON THE LEFT/SOUTH. THE STATION IS 21FT SOUTH OF THE CENTER OF CAROLAN RD., AND 3FT NORTH OF A 5 STRAND BARBWIRE FENCE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "420010 2024" AND SET ON TOP OF A 5/8IN. BY 4FT REBAR DRIVEN 0.10IN. BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 450010A	Date Monumented 5/31/2023	Monumented By ARDOT	County MARION	Route 62/412	Job Number: 090640
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	212,363.4990	0.0010	
Easting (M)	324,382.6181	0.0010	
Elevation (M)*	249.251	0.0027	
Northing (SFT)	696,729.2463		
Easting (SFT)	1,064,245.3062		
Elevation (SFT)*	817.750		

Convergence Angle	0	29	22.3468053
Scale Factor	1.000002240		
Elevation Adjust. Factor	0.9999608860		
Combined Adjust. Factor	0.9999631259		

SUPERCEDED CONTROL			
Horizontal Datum	NAD83(2011)		
Latitude	36	14	40.3741068
Longitude	92	50	28.6123452
Ellipsoid Height:	220.837		
Grid Northing (Meters)	212,363.5005		
Grid Easting (Meters)	324,382.6147		

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	82	21.33	70.0
MK # 2	COMBINATION POLE	57	23.77	78.0
MK # 3	COMBINATION POLE	247	53.34	175.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARHR Ref Mon # 2 ARM3 Ref Mon # 3 P777	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV BASED ON DIGITAL LEVELS FROM TBM 906 AND PN:20 IN JOB 090581 BY CREW S5101 DURING JOB 090640 IN JUNE 2023.</td> </tr> </table>	Comments	ELEV BASED ON DIGITAL LEVELS FROM TBM 906 AND PN:20 IN JOB 090581 BY CREW S5101 DURING JOB 090640 IN JUNE 2023.
Comments			
ELEV BASED ON DIGITAL LEVELS FROM TBM 906 AND PN:20 IN JOB 090581 BY CREW S5101 DURING JOB 090640 IN JUNE 2023.			

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	36 14 40.3740600
Longitude	92 50 28.6122120
Ellipsoid Height (M):	220.846 0.0050
Geoid Height (M):	-28.420

Location Description
FROM THE INTERSECTION OF U.S. HIGHWAY 62/412 AND ARKANSAS STATE HWY 125 SOUTH NEAR PYATT, MARION COUNTY ARKANSAS. TRAVEL EAST ALONG U.S. HIGHWAY 62/412 FOR MILES TO THE STATION ON THE RIGHT. THE STATION IS A STANDARD 2.5" ARDOT GPS CAP STAMPED 450010A, 2023, SET FLUSH WITH THE GROUND ON TOP OF A 5/8 INCH REBAR, 4 FT. IN LENGTH. THE STATION IS 45 FEET SOUTH EAST OF THE CENTERLINE OF U. S. HIGHWAY 62/ 412 AT THE TOP OF THE EMBANKMENT, 14 FEET NORTH WEST OF THE CENTERLINE OF A GRAVEL DRIVEWAY.

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420010A	Date Monumented 3/4/2024	Monumented By ARDOT	County LOGAN	Route 23	Job Number: 08X377
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	89,077.9337 0.0010
Easting (M)	224,073.2080 0.0010
Elevation (M)*	

Northing (SFT)	292,249.8541		
Easting (SFT)	735,146.8499		
Elevation (SFT)*			

Convergence Angle	-1	7	23.4163098
Scale Factor	0.999968450		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL FENCE POST	215	2.50	8.2
MK # 2	METAL FENCE POST	99	1.50	4.9
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	ELEV. BASED ON DIGITAL LEVELS FROM GPS #420010 WHOSE ELEVATION IS STATIC DERIVED. LEVELED ELEVATION IS 450.9881 US FT AND THE STATIC DERIVED ELEV. IS 450.9814 US FT.
Ref Mon # 2 ARFS	
Ref Mon # 3 ARFY, ARRV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420011	Date Monumented 3/4/2024	Monumented By ARDOT	County LOGAN	Route 309	Job Number: 08X378, 080750
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	114,310.9914	0.0020			
Easting (M)	241,044.2151	0.0020			
Elevation (M)*					
Northing (SFT)	375,035.3110				
Easting (SFT)	790,825.8957				
Elevation (SFT)*					

Convergence Angle	-1	1	3.7491601
Scale Factor	0.999944177		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF LEVEE GATE	286	32.30	106.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARDQ</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARFY</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARRV</td> </tr> </table>	Ref Mon # 1	ARDQ	Ref Mon # 2	ARFY	Ref Mon # 3	ARRV	<table style="width: 100%;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC DERIVED ELEV. 365.4468 US FT. CONSTRAINED ORTHOMETRIC HTS. ON ARDOT CORS ARDQ, ARFY & ARRV </td> </tr> </table>	Comments	STATIC DERIVED ELEV. 365.4468 US FT. CONSTRAINED ORTHOMETRIC HTS. ON ARDOT CORS ARDQ, ARFY & ARRV
Ref Mon # 1	ARDQ								
Ref Mon # 2	ARFY								
Ref Mon # 3	ARRV								
Comments									
STATIC DERIVED ELEV. 365.4468 US FT. CONSTRAINED ORTHOMETRIC HTS. ON ARDOT CORS ARDQ, ARFY & ARRV									

Location Description

TO REACH THE STATION MARK FROM THE INTERSECTION OF STATE HIGHWAY 22 AND 309 IN PARIS, GO NORTH ON HIGHWAY 309 FOR 4.25 MILES TO THE STATION ON THE LEFT/WEST. THE STATION IS 24FT. WEST OF THE CENTERLINE OF HIGHWAY 309 AND 19FT. SOUTH OF THE CENTER OF THE LEVEE ROAD. THE STATION MARK IS A STANDARD 2 1/2IN. CAP STAMPED "420011 2024" AND SET ON TOP OF A 5/8IN. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 420011A	Date Monumented 3/4/2024	Monumented By ARDOT	County LOGAN	Route 309	Job Number: 08X378, 080750
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	114,715.3461	0.0020			
Easting (M)	241,044.1425	0.0020			
Elevation (M)*	108.644				
Northing (SFT)	376,361.9313				
Easting (SFT)	790,825.6575				
Elevation (SFT)*	356.442				

Convergence Angle	-1	1	3.9163658
Scale Factor	0.999943921		
Elevation Adjust. Factor	0.9999829505		
Combined Adjust. Factor	0.9999268725		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18" CMP UNDER FIELD ROAD	228	5.50	18.0
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARDQ	ELEV. BASED ON DIGITAL LEVELS FROM GPS #420011 WHOSE ELEVATION IS STATIC DERIVED.
Ref Mon # 2 ARFY	
Ref Mon # 3 ARR V	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 21 16.6546404
Longitude	93 44 56.4802476
Ellipsoid Height (M):	79.033 0.0100
Geoid Height (M):	-29.622 0.0100

Location Description
<p>TO REACH THE STATION MARK FROM THE INTERSECTION OF STATE HIGHWAY 22 AND 309 IN PARIS, GO NORTH ON HIGHWAY 309 FOR 4.5 MILES TO THE STATION ON THE LEFT/WEST. THE STATION IS ACROSS HWY 309 FROM PARIS BOTTOMS ROAD, AND 17FT. WEST OF THE CENTERLINE OF HWY 309, AND 21FT NORTH OF A GRAVEL FIELD ROAD. THE STATION MARK IS A STANDARD 2 1/2IN. CAP STAMPED "420011A 2024" AND SET ON TOP OF A 5/8IN. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 740010	Date Monumented 3/18/2024	Monumented By ARDOT	County WOODRUFF	Route 33	Job Number: 01X463 110838
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	88,759.9580 0.0020
Easting (M)	460,625.7830 0.0020
Elevation (M)*	60.109
Northing (SFT)	291,206.6289
Easting (SFT)	1,511,236.4231
Elevation (SFT)*	197.208

Convergence Angle	0 23 13.5016080
Scale Factor	0.999966950
Elevation Adjust. Factor	0.9999905670
Combined Adjust. Factor	0.9999575173

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description			
<p>To reach from the junction of State Highways 262 and 33 North of Gregory, go South on Highway 33 for 3.0 miles to Woodruff County Road 758 on the Left/East. Go East on County Road 758 for 0.5 miles to the intersection of County Road 758 and 719. The station is in the Northeast corner of the intersection. It is 35.5ft. North of the center of County Road 758, and 22.6 East of the center of 719. The station mark is a standard 2 1/2in. aluminium cap stamped "740010 2024" and set on top of a 5/8in. rebar driven 0.10in. below the surface.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	18" CMP UNDER 719	342	5.10	16.7
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARBT</p> <p>Ref Mon # 2 ARJB</p> <p>Ref Mon # 3 ARLR, ARWY</p>	<p style="text-align: center;">Comments</p> <p>STATIC DERIVED ELEV. 197.2076 US FT. CONSTRAINED ORTHOMETRIC HTS. ON ARDOT CORS ARBT, ARJB, ARLR & ARWY</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 740010A	Date Monumented 3/18/2024	Monumented By ARDOT	County WOODRUFF	Route 33	Job Number: 01X463 110838
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	88,757.7742	0.0020	
Easting (M)	460,230.3252	0.0020	
Elevation (M)*	59.766		
Northing (SFT)	291,199.4642		
Easting (SFT)	1,509,938.9919		
Elevation (SFT)*	196.083		

Convergence Angle	0	23	4.4118302
Scale Factor	0.999966949		
Elevation Adjust. Factor	0.9999906208		
Combined Adjust. Factor	0.9999575701		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	SERVICE POLE	248	4.50	14.8	740010
MK # 2	COMBINATION POLE TRIPLE TRANSFORME	202	12.60	41.3	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	ELEV. BASED ON DIGITAL LEVELS FROM GPS #740010 WHOSE ELEVATION IS STATIC DERIVED. LEVELED ELEVATION IS 196.0828 US FT AND THE STATIC DERIVED ELEV. IS 196.0675 US FT.
Ref Mon # 2 ARJB	
Ref Mon # 3 ARLR, ARWY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 740011	Date Monumented 3/18/2024	Monumented By ARDOT	County WOODRUFF	Route 269	Job Number: 01X337
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	106,567.1130	0.0010			
Easting (M)	476,038.5064	0.0010			
Elevation (M)*					
Northing (SFT)	349,628.9366				
Easting (SFT)	1,561,802.9997				
Elevation (SFT)*					

Convergence Angle	0	29	11.2273338
Scale Factor	0.999948958		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	STATIC DERIVED ELEV. 213.4756 US FT. CONSTRAINED ORTHOMETRIC HTS. ON ARDOT CORS ARBT, ARJB, ARLR & ARWY
Ref Mon # 2 ARJB	
Ref Mon # 3 ARLR, ARWY	

Location Description
To reach from the junction of State Highways 37 and 269 North of McCrory go East on Highway 269 for 1.45 miles to Woodruff County Road 372. Go South on 372 for 0.4 miles to the station on the Left/East. The station is 21.2ft East of Woodruff County Road 372. The station mark is a standard 2 1/2in. aluminium cap stamped "740011 2024" and set on top of a 5/8in. rebar driven 0.10in. below the surface.

AZ Mark Station	740011A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 740011A	Date Monumented 3/18/2024	Monumented By ARDOT	County WOODRUFF	Route 269	Job Number: 01X337
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	107,047.7210 0.0010
Easting (M)	476,026.0458 0.0010
Elevation (M)*	
Northing (SFT)	351,205.7313
Easting (SFT)	1,561,762.1186
Elevation (SFT)*	

Convergence Angle	0	29	11.0343323
Scale Factor	0.999948576		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	0	2.10	6.9
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	ELEV. 214.8886 US FT BASED ON DIGITAL LEVELS FROM GPS #740011 WHOSE ELEV. IS BASED ON STATIC DERIVED. STATIC DERIVED ELEV. ON 740011A IS 214.8959 US FT.
Ref Mon # 2 ARJB	
Ref Mon # 3 ARLR, ARWY	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340016	Date Monumented 3/20/2024	Monumented By ARDOT	County JACKSON	Route 42	Job Number: 05X314
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	118,165.9223	0.0010			
Easting (M)	485,745.6793	0.0010			
Elevation (M)*					
Northing (SFT)	387,682.6967				
Easting (SFT)	1,593,650.6162				
Elevation (SFT)*					

Convergence Angle	0	32	57.3390849
Scale Factor	0.999941375		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	STATIC DERIVED ELEVATION 217.2755 US FT. BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARJB, ARLR & ARWY
Ref Mon # 2 ARJB	
Ref Mon # 3 ARLR, ARWY	

Location Description
To reach from the intersection of Hwy 42 and Hwy 49 in Hickory Ridge, go West on Hwy 42 for 3.3 miles to Jackson County Road 147. Go West on 147 for 0.3 miles to the station on the Right/North. The station is 16ft North of the center of County Road 147, and 39ft. East of the center of a gravel field road. The station mark is a standard 2 1/2in. aluminium cap stamped "340016 2024" and set on top of a 5/8in. rebar driven 0.10in. below the surface.

AZ Mark Station	340016A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340016A	Date Monumented 3/20/2024	Monumented By ARDOT	County JACKSON	Route 42	Job Number: 05X314
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	118,558.7116 0.0010
Easting (M)	485,842.3828 0.0010
Elevation (M)*	

Northing (SFT)	388,971.3730	
Easting (SFT)	1,593,967.8842	
Elevation (SFT)*		

Convergence Angle	0	32	59.6559116
Scale Factor	0.999941174		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

To reach from the intersection of Hwy 42 and Hwy 39 in Hickory Ridge, go West on Hwy 42 for 3.3 miles to Jackson Coounty Road 147. The station is 64.4ft South of Hwy 42 and 19.5ft. West of Jackson County Road 147. The station mark is a standard 2 1/2in. aluminium cap stamped "340016A 2024" and set on top of a 5/8in. rebar driven 0.10in. below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	58	17.20	56.4
MK # 2				
MK # 3				

AZ Mark Station	340016
Geodetic Azimuth	
Grid Azimuth	

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARBT</p> <p>Ref Mon # 2 ARJB</p> <p>Ref Mon # 3 ARLR, ARWY</p>	<p style="text-align: center; margin: 0;">Comments</p> <p style="margin: 5px 0;">ELEVATION BASED ON DIGITAL LEVELS FROM GPS #340016 WHOSE ELEVATION WAS STATIC DERIVED. ELEVATION FROM LEVELS IS 217.7340 US FT & THE STATIC DERIVED ELEVATION IS 217.7220 US FT</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190021	Date Monumented 3/13/2024	Monumented By ARDOT	County CROSS	Route 364	Job Number: 01X464
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD83 (2011)
Northing (M)	112,319.4957 0.0010
Easting (M)	515,338.0213 0.0010
Elevation (M)*	92.151 0.0158
Northing (SFT)	368,501.5455
Easting (SFT)	1,690,738.1582
Elevation (SFT)*	302.333

Convergence Angle	0 44 17.9504561
Scale Factor	0.999945041
Elevation Adjust. Factor	0.9999855387
Combined Adjust. Factor	0.9999305805

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks	
Description	Azimuth
	Distance
	Meters Feet
MK # 1 30" CMP CULVERT	220 10.36 34.0
MK # 2 2.5'X1.5' IN GROUND TELEPHONE BOX	320 4.27 14.0
MK # 3 23' NW OF CL HWY 364	140 7.01 23.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARWY	ELEV WAS EST BYA STATIC OBS AT GPS 190021A HOLDING NGS BM E 333. 3WR LEVELS RAN FROM STATIC DERIVED ELEV AT 190021A TO 190021 BY CREW S5101 DURING JOB 01X464 IN MARCH 2024.
Ref Mon # 2 ARWM	
Ref Mon # 3 ARJB,ARSC	

Location Description
From the intersection of Highway 1 North and Arkansas State Highway 64 in Wynne in Cross County Arkansas, travel North along State Highway 1 North for 4.2 miles to the Intersection of Highway 1 and Highway 1B to the right, then travel East along Highway 1B for 0.80 miles to the intersection of 1B and Highway 364 on the Right. Then travel 3.2 miles to the station on the left. The Station is a standard 2.5 inch AHTD GPS cap stamped 190021 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 23 feet (7.01 Meters) North West of the centerline of Highway 364 and 4 feet (1.22 Meters) South East of a witness post.

AZ Mark Station	190021A
Geodetic Azimuth	53 30 32.8
Grid Azimuth	52 46 10.8

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190021A	Date Monumented 3/13/2024	Monumented By ARDOT	County CROSS	Route 364	Job Number: 01X464
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD83 (2011)
Northing (M)	112,583.0703 0.0010
Easting (M)	515,684.8864 0.0010
Elevation (M)*	92.242 0.0000
Northing (SFT)	369,366.2898
Easting (SFT)	1,691,876.1648
Elevation (SFT)*	302.630

Convergence Angle	0 44 26.0215357
Scale Factor	0.999944868
Elevation Adjust. Factor	0.9999855245
Combined Adjust. Factor	0.9999303933

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL GRAVEL DW	190	5.79	19.0
MK # 2	POWER POLE	155	10.67	35.0
MK # 3	WATER METER	30	19.81	65.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARWY Ref Mon # 2 ARWM Ref Mon # 3 ARJB,ARSC	ELEV WAS EST BYA STATIC OBS AT GPS 190021A HOLDING NGS BM E 333.

Location Description	
From the intersection of Highway 1 North and Arkansas State Highway 64 in Wynne in Cross County Arkansas, travel North along State Highway 1 North for 4.2 miles to the Intersection of Highway 1 and Highway 1B to the right, then travel East along Highway 1B for 0.80 miles to the intersection of 1B and Highway 364 on the Right. Then travel 3.4 miles to the station on the left. The Station is a standard 2.5 inch AHTD GPS cap stamped 190021A (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 33 feet (10.06 Meters) East of the centerline of Highway 364 and 4 feet (1.22 Meters) west of a witness post.	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEIOD18
Latitude	35 20 29.0152860
Longitude	90 43 38.4129048
Ellipsoid Height (M):	64.903 0.0070
Geoid Height (M):	-27.339

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730043	Date Monumented 3/25/2024	Monumented By ARDOT	County WHITE	Route 310	Job Number: 05X340
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	112,819.8289	0.0010			
Easting (M)	417,957.4050	0.0010			
Elevation (M)*					
Northing (SFT)	370,143.0553				
Easting (SFT)	1,371,248.5862				
Elevation (SFT)*					

Convergence Angle	0	6	53.8716690
Scale Factor	0.999944239		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>To reach from the intersection of Hwy. 310 and Hwy. 16 North of Albion. Go West on Hwy 310 for 0.4 miles to the station on the Left/South. The station is 38.6ft. South of the centerline of Hwy 310, 4.1ft North of a sign post, and 5ft North of a barbwire fence. The station is a standard 2 1/2 in. aluminium cap stamped "730043 2024" set ontop of a 5/8in by 4ft rebar driven 0.10 in. below the surface.</p>			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARBT</p> <p>Ref Mon # 2 ARLR</p> <p>Ref Mon # 3 ARRV, ARWY</p>	<p style="text-align: center;">Comments</p> <p>STATIC DERIVED ELEV. 239.3840 US FT IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARLR, ARRV & ARWY</p>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 730043A	Date Monumented 3/25/2024	Monumented By ARDOT	County WHITE	Route 310	Job Number: 05X340
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	112,852.5759	0.0010			
Easting (M)	418,370.3650	0.0010			
Elevation (M)*					
Northing (SFT)	370,250.4928				
Easting (SFT)	1,372,603.4392				
Elevation (SFT)*					

Convergence Angle	0	7	3.3908507
Scale Factor	0.999944219		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1			
MK # 2			
MK # 3			

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	STATIC DERIVED ELEV. OF 235.9992 US FT IS BASED ON CONSTRAINING HTs. ON ARDOT CORS SITES ARBT, ARLR, ARRV & ARWY. ELEV. OF 236.0070 US FT IS BASED ON DIGITAL LEVELS FROM STATIC DERIVED ELEV. ON GPS #730043.
Ref Mon # 2 ARLR	
Ref Mon # 3 ARRV, ARWY	

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320041	Date Monumented 3/26/2024	Monumented By ARDOT	County INDEPENDENCE	Route 233	Job Number: 05X317, 050518
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	158,775.1335 0.0010
Easting (M)	450,719.3923 0.0010
Elevation (M)*	
Northing (SFT)	520,914.7505
Easting (SFT)	1,478,735.2062
Elevation (SFT)*	

Convergence Angle	0 19 34.9729191
Scale Factor	0.999940795
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks			
Description		Azimuth	Distance
			Meters Feet
MK # 1	METAL FENCE POST		1.80 5.9
MK # 2	METAL FENCE POST		2.30 7.5
MK # 3			

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARHR Ref Mon # 3 ARJB, ARLR	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td> STATIC DERIVED ELEV. 417.1648 US FT IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARHR, ARJB & ARLR </td> </tr> </table>	Comments	STATIC DERIVED ELEV. 417.1648 US FT IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARHR, ARJB & ARLR
Comments			
STATIC DERIVED ELEV. 417.1648 US FT IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARHR, ARJB & ARLR			

Location Description	
To reach from the intersection of Hwy. 233 and Hwy. 69B in Newark, go North on Hwy 233 for 4.3 miles to the Junction of Hwy 233 and Walnut Grove Rd. Go Right/East on Walnut Grove Rd. for 0.2 miles to the station on the Right/South. The station is 21.6 ft. South of the centerline of Walnut Grove Rd. and 4.3 ft. North of a sign post. The station mark is a standard 2 1/2 in. aluminium cap stamped "320041 2024" and set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	35 45 47.4664392
Longitude	91 26 20.7962196
Ellipsoid Height (M):	99.481 0.0030
Geoid Height (M):	-27.671 0.0030

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 320041A	Date Monumented 3/26/2024	Monumented By ARDOT	County INDEPENDENCE	Route 233	Job Number: 05X317, 050518
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	158,463.9616	0.0010			
Easting (M)	450,492.1175	0.0010			
Elevation (M)*					
Northing (SFT)	519,893.8473				
Easting (SFT)	1,477,989.5555				
Elevation (SFT)*					

Convergence Angle	0	19	29.6670745
Scale Factor	0.999940645		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	WOODEN CORNER POST		9.90	32.5	320041
MK # 2	METAL FENCE POST		7.00	23.0	
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	STATIC DERIVED ELEV. OF 392.8978 US FT IS BASED ON CONSTRAINING HTs. ON ARDOT CORS SITES ARBT, ARHR, ARJB & ARLR. ELEV. OF 392.8918 US FT IS BASED ON DIGITAL LEVELS FROM STATIC DERIVED ELEV. ON GPS #320041
Ref Mon # 2 ARHR	
Ref Mon # 3 ARJB, ARLR	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680018	Date Monumented 4/1/2024	Monumented By ARDOT	County ST. FRANCIS	Route 50	Job Number: 01X446
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD83 (2011)
Northing (M)	75,711.9717 0.0020
Easting (M)	542,134.3612 0.0010
Elevation (M)*	62.425 0.0000
Northing (SFT)	248,398.3605
Easting (SFT)	1,778,652.4834
Elevation (SFT)*	204.807

Convergence Angle	0 54 22.0346716
Scale Factor	0.999986574
Elevation Adjust. Factor	0.9999902035
Combined Adjust. Factor	0.9999767777

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	3	2.70	8.9
MK # 2	WEST END 18" CULVERT	90	46.30	151.9
MK # 3	EAST END 18" CULVERT	260	48.20	158.1

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARWY Ref Mon # 2 ARWM Ref Mon # 3 ARMA	ELEV. WAS EST. BY STATIC OBS HOLDING NGS BM EDMONSON RM1 BY CREW S5101 DURING JOB 01X446 IN APRIL 2024

Location Description	
From the intersection on U.S. Highway 79 and Arkansas State Highway 38 near Hughs in St Francis County, Arkansas, travel North East along U. S. Highway79 for 6.1 Miles to the intersection of U.S. Highway 79 and Arkansas State Highway 50 , then travel West along Arkansas State Highway 50 for 2.3 Miles to the station on the Right. The Station is a standard 2.5 inch AHTD GPS cap stamped 680018 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 28 feet (8.5 Meters) North of the centerline of Arkansas State Highway 50 and 9 feet (2.7 Meters) South of a witness post.	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 680018A	Date Monumented 4/1/2024	Monumented By ARDOT	County ST. FRANCIS	Route 50	Job Number: 01X446
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD83 (2011)		
Northing (M)	75,754.2197	0.0020	
Easting (M)	542,613.4036	0.0010	
Elevation (M)*	61.518	0.0061	
Northing (SFT)	248,536.9691		
Easting (SFT)	1,780,224.1416		
Elevation (SFT)*	201.831		

Convergence Angle	0	54	33.0424087
Scale Factor	0.999986519		
Elevation Adjust. Factor	0.9999903459		
Combined Adjust. Factor	0.9999768650		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	4	3.00	9.8
MK # 2	TELEPHONE HAND HOLE	330	16.10	52.8
MK # 3	TELEPHONN PEDESTAL	275	2.70	8.9

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARWY Ref Mon # 2 ARWM Ref Mon # 3 ARMA	ELEV WAS EST BY RUNNING 3WR LEVELS FROM STATIC DERIVED ELEV ON GPS MON. 680018 BY CREW S5101 DURING JOB 01X446 IN APRIL 2024.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470037	Date Monumented 2/26/2024	Monumented By ARDOT	County Mississippi	Route 14	Job Number: 10X568
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	143,105.1545 0.0010
Easting (M)	565,118.3811 0.0020
Elevation (M)*	69.208
Northing (SFT)	469,504.1611
Easting (SFT)	1,854,059.2220
Elevation (SFT)*	227.059

Convergence Angle	1 3 38.0416605
Scale Factor	0.999936032
Elevation Adjust. Factor	0.9999891392
Combined Adjust. Factor	0.9999251719

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description	
<p>From the intersection of U. S. Interstate 55 and Arkansas State Highway 14 near Marie in Southern Mississippi County Arkansas, travel West along State Highway 14 for 3.6 miles to the Intersection with Mississippi County Road S209 on the Left, then travel South along Mississippi County Road S209 for 0.12 Miles to the station on the Right. The Station is a standard 2.5 inch AHTD GPS cap stamped 470037 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 22 feet (6.71 Meters) West of the centerline of Mississippi County Road S209 and 14 feet (4.27 Meters) East of a witness post.</p>	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	272	4.57	15.0
MK # 2	Double Down Guy	282	9.75	32.0
MK # 3				

<p style="text-align: center;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 </p> <p>Ref Mon # 2 </p> <p>Ref Mon # 3 </p>	<p style="text-align: center;">Comments</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 470037A	Date Monumented 2/26/2024	Monumented By ARDOT	County Mississippi	Route 14	Job Number: 10X568
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	142,486.8639 0.0010
Easting (M)	565,126.2839 0.0020
Elevation (M)*	68.677
Northing (SFT)	467,475.6526
Easting (SFT)	1,854,085.1498
Elevation (SFT)*	225.317

Convergence Angle	1 3 37.9597524
Scale Factor	0.999935994
Elevation Adjust. Factor	0.9999892225
Combined Adjust. Factor	0.9999252172

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	270	4.57	15.0
MK # 2	West end 24" Metal Culvert	0	15.24	50.0
MK # 3	West end 18" Metal Culvert	120	18.90	62.0

Area Reference Monuments (used for Processing) Ref Mon # 1 <div style="border: 1px solid black; height: 20px; width: 150px;"></div> Ref Mon # 2 <div style="border: 1px solid black; height: 20px; width: 150px;"></div> Ref Mon # 3 <div style="border: 1px solid black; height: 20px; width: 150px;"></div>	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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Location Description
From the intersection of U. S. Interstate 55 and Arkansas State Highway 14 near Marie in Southern Mississippi County Arkansas, travel West along State Highway 14 for 3.6 miles to the Intersection with Mississippi County Road S209 on the Left, then travel South along Mississippi County Road S209 for 0.52 Miles to the station on the Right. The Station is a standard 2.5 inch AHTD GPS cap stamped 470037A (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 25 feet (7.62 Meters) West of the centerline of Mississippi County Road S209 and 13 feet (3.96 Meters) East of a witness post.

AZ Mark Station	470037
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180035	Date Monumented 4/2/2024	Monumented By ARDOT	County CRITTENDEN	Route 149	Job Number: 01X466
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD83 (2011)				
Northing (M)	107,191.9218	0.0010			
Easting (M)	539,298.6757	0.0010			
Elevation (M)*	64.532	0.0000			
Northing (SFT)	351,678.8301				
Easting (SFT)	1,769,349.0719				
Elevation (SFT)*	211.718				

Convergence Angle	0	53	28.2015833		
Scale Factor	0.999949067				
Elevation Adjust. Factor	0.9999898729				
Combined Adjust. Factor	0.9999389405				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	Telephone Pedestal		290	9.50	31.2
MK # 2	Telephone Pedestal		348	21.90	71.9
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB Ref Mon # 2 ARWY Ref Mon # 3 ARWM	ELEV WAS EST BY STATIC OBS HOLDING NGS BM EARLE DURING JOB 01X466 BY CREW S5101 IN APRIL 2024.

Location Description					
From the intersection on U.S. Highway 64 and Arkansas State Highway 149 near Earle in Crittenden County, Arkansas, travel North East along Arkansas State Highway 149 for 0.97 Miles to the station on the Right. The Station is a standard 2.5 inch AHTD GPS cap stamped 180035 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 32 feet (9.7 Meters) East of the centerline of Arkansas State Highway 149, 50 feet (15.2M) South of Swindle Road and 2 feet (.06 Meters) West of a witness post.					

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 180035A	Date Monumented 4/2/2024	Monumented By ARDOT	County CRITTENDEN	Route 149	Job Number: 01X466
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD83 (2011)				
Northing (M)	106,800.5207	0.0010			
Easting (M)	539,280.3752	0.0010			
Elevation (M)*	63.738	0.0000			
Northing (SFT)	350,394.7083				
Easting (SFT)	1,769,289.0310				
Elevation (SFT)*	209.114				

Convergence Angle	0	53	27.6399973		
Scale Factor	0.999949383				
Elevation Adjust. Factor	0.9999899975				
Combined Adjust. Factor	0.9999393810				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Reference Marks						
Description			Azimuth	Distance		
				Meters	Feet	
MK # 1	South End 18" Culvert		31	5.20	17.1	
MK # 2	Combination Pole		65	20.70	67.9	
MK # 3	Sewer Man Hole		3	22.30	73.2	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARJB	ELEV WAS EST BY STATIC OBS HOLDING NGS BM EARLE ON GPS 180035 THEN RUNNING 3WR LEVELS TO 180035A DURING JOB 01X466 BY CREW S5101 IN APRIL 2024.
Ref Mon # 2 ARWY	
Ref Mon # 3 ARWM	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	35 17 10.4899704
Longitude	90 28 7.6356696
Ellipsoid Height (M):	36.374 0.0040
Geoid Height (M):	-27.358

Location Description
<p>From the intersection on U.S. Highway 64 and Arkansas State Highway 149 near Earle in Crittenden County, Arkansas, travel North East along Arkansas State Highway 149 for 0.73 Miles to the station on the Left. The Station is a standard 2.5 inch AHTD GPS cap stamped 180035A (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 31 feet (9.5 Meters) West of the centerline of Arkansas State Highway 149, and 10 feet (3.0 Meters) South East of a witness post.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190022	Date Monumented 3/13/2024	Monumented By ARDOT	County CROSS	Route 350	Job Number: 01X465
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD83 (2011)		
Northing (M)	100,919.4024	0.0020	
Easting (M)	505,081.9210	0.0020	
Elevation (M)*	68.787	0.0000	
Northing (SFT)	331,099.7394		
Easting (SFT)	1,657,089.6025		
Elevation (SFT)*	225.679		

Convergence Angle	0	40	18.5423522
Scale Factor	0.999954144		
Elevation Adjust. Factor	0.9999892052		
Combined Adjust. Factor	0.9999433497		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	70	16.46	54.0
MK # 2	TELEPHONE BOX	20	11.89	39.0
MK # 3	WEST END 18" CMP	260	3.96	13.0

Area Reference Monuments (used for Processing) Ref Mon # 1 ARWY Ref Mon # 2 ARWM Ref Mon # 3 ARMA	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV WAS EST BY STATIC OBS HOLDING NGS BM E 333 DURING JOB 01X465 BY CREW S5101 IN MARCH 2024.</td> </tr> </table>	Comments	ELEV WAS EST BY STATIC OBS HOLDING NGS BM E 333 DURING JOB 01X465 BY CREW S5101 IN MARCH 2024.
Comments			
ELEV WAS EST BY STATIC OBS HOLDING NGS BM E 333 DURING JOB 01X465 BY CREW S5101 IN MARCH 2024.			

Location Description
From the intersection of U. S. Highway 1 North and Arkansas State Highway 64 in Wynne in Cross County Arkansas, travel West along State Highway 64 for 2.4 miles to the Intersection of Highway 64 and Highway 350 on the Left, then travel South along Highway 350 for 1 mile to Cross County Road 607 on the right. Travel .20 of a mile to the station on the right. The Station is a standard 2.5 inch AHTD GPS cap stamped 190022A (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 23 feet (7.01Meters) North of the centerline of Cross County Road 607 and 6 feet (1.83 Meters) North of a witness post.

AZ Mark Station	190022A
Geodetic Azimuth	84 09 43.3
Grid Azimuth	83 29 19.6

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 190022A	Date Monumented 3/13/2024	Monumented By ARDOT	County CROSS	Route 350	Job Number: 01X465
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD83 (2011)				
Northing (M)	100,970.1276	0.0020			
Easting (M)	505,526.3576	0.0020			
Elevation (M)*	69.411	0.0061			
Northing (SFT)	331,266.1603				
Easting (SFT)	1,658,547.7249				
Elevation (SFT)*	227.725				

Convergence Angle	0	40	28.7842108		
Scale Factor	0.999954101				
Elevation Adjust. Factor	0.9999891073				
Combined Adjust. Factor	0.9999432088				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>From the intersection of U. S. Highway 1 North and Arkansas State Highway 64 in Wynne in Cross County Arkansas, travel West along State Highway 64 for 2.4 miles to the Intersection of Highway 64 and Highway 350 on the Left, then travel South along Highway 350 for 1 mile to Cross County Road 607 on the right. Travel .50 of a mile to the station on the left. The Station is a standard 2.5 inch AHTD GPS cap stamped 190022 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 14 feet (4.27Meters) South of the centerline of a gravel drive way and 2 feet (.61 Meters) South of a witness post.</p>					

Location Reference Marks					
Description			Azimuth	Distance	
				Meters	Feet
MK # 1	CL COUNTY ROAD 607		340	4.27	14.0
MK # 2					
MK # 3					

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARWY	ELEV WAS EST BY STATIC OBS ON GPS 190022. 3WR LEVELS WERE RAN FROM 190022 HOLDING THE STATIC DERIVED ELEV TO 190022A DURING JOB 01X465 BY CREW S5101 IN MARCH 2024.
Ref Mon # 2 ARWM	
Ref Mon # 3 ARMA	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340017	Date Monumented 4/1/2024	Monumented By ARDOT	County JACKSON	Route 37	Job Number: 05X312
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	156,510.3864	0.0020			
Easting (M)	468,143.1953	0.0020			
Elevation (M)*					
Northing (SFT)	513,484.4927				
Easting (SFT)	1,535,899.7999				
Elevation (SFT)*					

Convergence Angle	0	26	18.2001438
Scale Factor	0.999939699		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PLASTIC CULVERT UNDER FARM ROAD	111	3.70	12.1
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	STATIC DERIVED ELEV. 245.5809 US FT IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARJB & ARWY
Ref Mon # 2 ARJB	
Ref Mon # 3 ARWY	

Vertical Determined By: GPS - Unknown Quality	Elevation Datum: NAVD 88
Geoid Datum: GEOID 18	Latitude 35 44 30.2090820
Longitude 91 14 47.8458348	Ellipsoid Height (M): 47.126 0.0110
Geoid Height (M): -27.727 0.0110	

Location Description
To reach from the intersection of Hwy. 37 and Hwy. 367 in Tuckerman, go West on Hwy. 37 for 3.4 miles to the station on the Left/West. The station is 35.0ft West of the centerline of Hwy. 37 and 22.0 ft. North of a gravel farm road. The station mark is a standard 2 1/2 in. aluminium cap stamped "340017 2024" and set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 340017A	Date Monumented 4/1/2024	Monumented By ARDOT	County JACKSON	Route 37	Job Number: 05X312
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Zone	Zone Code				
Arkansas North	301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	156,089.5620	0.0020			
Easting (M)	468,170.1224	0.0020			
Elevation (M)*					
Northing (SFT)	512,103.8380				
Easting (SFT)	1,535,988.1432				
Elevation (SFT)*					

Convergence Angle	0	26	18.7491566
Scale Factor	0.999939520		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	ELEV. OF 242.9599 US FT BASED ON DIGITAL LEVELS FROM STATIC DERIVED ELEV. ON GPS #340017. THE STATIC DERIVED ELEV. OF 242.9598 IS BASED ON HT. CONSTRAINTS ON ARDOT CORS SITES ARBT, ARJB & ARWY.
Ref Mon # 2 ARJB	
Ref Mon # 3 ARWY	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID 18
Latitude	35 44 16.5479748
Longitude	91 14 46.9023504
Ellipsoid Height (M):	46.333 0.0110
Geoid Height (M):	-27.721 0.0110

Location Description
<p>To reach from the intersection of Hwy. 37 and Hwy. 367 in Tuckerman, go West on Hwy. 37 for 3.15 miles to the station on the Left/West. The station is 33.6ft West of the centerline of Hwy. 37 and on the East edge of the farm road. The station mark is a standard 2 1/2 in. cap stamped "340017A 2024" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670016	Date Monumented 4/3/2024	Monumented By ARDOT	County SHARP	Route 56	Job Number: 05X316, 050517
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	206,529.0912	0.0010	
Easting (M)	429,669.9152	0.0010	
Elevation (M)*			
Northing (SFT)	677,587.5267		
Easting (SFT)	1,409,675.3801		
Elevation (SFT)*			

Convergence Angle	0	11	31.0488875
Scale Factor	0.999992545		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF METAL GATE	195	12.10	39.7
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARBT Ref Mon # 2 ARJB Ref Mon # 3 ARPG ARM3	Comments STATIC DERIVED ELEV. 645.1979 IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARJB & ARPG
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Vertical Determined By: GPS - Unknown Quality

Elevation Datum: NAVD 88

Geoid Datum: GEOID 18

Latitude 36 11 39.9546528

Longitude 91 40 12.4249476

Ellipsoid Height (M): 168.572 0.0200

Geoid Height (M): -28.085 0.0200

Location Description

To reach from the intersection of Hwy. 56 and Hwy. 167 in Ash Flat, go West on Hwy. 56 for 4.3 miles to County Line Rd. Go North on County Line Rd for 0.25 miles to the station on the Right/East. The station is 13.6 ft. East of the center of County Line Rd., and 2.8 ft. West of a barbwire fence. The station mark is a standard 2 1/2 in. aluminium cap stamped "670016 2024" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 670016A	Date Monumented 4/3/2024	Monumented By ARDOT	County SHARP	Route 56	Job Number: 05X316, 050517
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	206,942.1377	0.0010	
Easting (M)	429,649.1422	0.0010	
Elevation (M)*			
Northing (SFT)	678,942.6634		
Easting (SFT)	1,409,607.2274		
Elevation (SFT)*			

Convergence Angle	0	11	30.5972721
Scale Factor	0.999993239		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF METAL GATE	153	21.50	70.5
MK # 2	18" OAK	336	18.30	60.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARBT	ELEV. OF 622.4859 US FT BASED ON DIGITAL LEVELS FROM STATIC DERIVED ELEV. ON GPS #670016. THE STATIC DERIVED ELEV. OF 622.4925 IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARJB & ARPG.
Ref Mon # 2 ARJB	
Ref Mon # 3 ARPG ARM3	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID 18
Latitude	36 11 53.3575428
Longitude	91 40 13.2010536
Ellipsoid Height (M):	161.648 0.0200
Geoid Height (M):	-28.088 0.0200

Location Description
To reach from the intersection of Hwy. 56 and Hwy. 167 in Ash Flat, go West on Hwy. 56 for 4.3 miles to County Line Rd. Go North on County Line Rd for 0.5 miles to the station on the Left/West. The station is 15.5 ft. West of the center of County Line Road and 2.2 ft. East of a barbwire fence. The station mark is a standard 2 1/2 in. aluminium cap stamped "670016A 2024" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 350038	Date Monumented 3/28/2024	Monumented By ARDOT	County JEFFERSON	Route 31	Job Number: 02X322
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD83 (2011)
Northing (M)	584,239.6653 0.0010
Easting (M)	403,388.8462 0.0010
Elevation (M)*	63.878 0.0000
Northing (SFT)	1,916,792.9686
Easting (SFT)	1,323,451.5729
Elevation (SFT)*	209.572

Convergence Angle	0 1 14.2010736
Scale Factor	0.999931533
Elevation Adjust. Factor	0.9999899756
Combined Adjust. Factor	0.9999215093

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	34 19 40.0072296
Longitude	91 57 47.4248556
Ellipsoid Height (M):	37.791 0.0080
Geoid Height (M):	-26.087

Location Description
<p>TO REACH FROM THE INTERSECTION OF HIGHWAY 31 AND HIGHWAY 79B NEAR PINE BLUFF, JEFFERSON COUNTY, ARKANSAS. TRAVEL NORTH ALONG HIGHWAY 31 FOR 1.9 MILES TO THE STATION ON THE LEFT (WEST) SIDE OF THE ROAD. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 350038, 2024 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 25FT NORTHWEST OF THE CENTERLINE OF HIGHWAY 31 AND 40FT NORTHEAST OF A DIRT FIELD ENTRANCE.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WELL	79	15.00	49.2
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARSH	ELEVATION WAS EST. BY STATIC OBS. HOLDING NGS BM EVERGREEN DURING JOB 02X322 BY CREW S5102 IN MARCH 2024.
Ref Mon # 2 ARPB	
Ref Mon # 3 ARST	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030025	Date Monumented 6/5/2024	Monumented By ARDOT	County BAXTER	Route 62/412	Job Number: 012390
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD83 (2011)		
Northing (M)	226,195.9049	0.0020	
Easting (M)	379,171.6484	0.0020	
Elevation (M)*	183.025	0.0000	
Northing (SFT)	742,111.0647		
Easting (SFT)	1,243,998.9831		
Elevation (SFT)*	600.475		

Convergence Angle	0	8	6.1986265
Scale Factor	1.000030332		
Elevation Adjust. Factor	0.9999712782		
Combined Adjust. Factor	1.0000016094		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Light Pole	198	15.50	50.9	N/A
MK # 2	Water Meter	127	8.50	27.9	
MK # 3	S. End 18" Metal Culvert	330	21.30	69.9	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width:150px;" type="text"/> Ref Mon # 2 <input style="width:150px;" type="text"/> Ref Mon # 3 <input style="width:150px;" type="text"/>	Located in grassy area next to R.V. dump station on C.O. E. Property

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 030026	Date Monumented 5/6/2024	Monumented By ARDOT	County BAXTER	Route 62/412	Job Number: 012390
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD83 (2011)		
Northing (M)	227,175.8691	0.0010	
Easting (M)	382,707.3876	0.0010	
Elevation (M)*	267.044	0.0063	
Northing (SFT)	745,326.1639		
Easting (SFT)	1,255,599.1542		
Elevation (SFT)*	876.128		

Convergence Angle	0	6	43.7084611
Scale Factor	1.000032481		
Elevation Adjust. Factor	0.9999580938		
Combined Adjust. Factor	0.9999905735		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Power Pole	38	25.00	82.0	N/A
MK # 2	Telephone Box	200	25.90	85.0	
MK # 3	S. W. End 18" Metal Culvert	355	7.00	23.0	

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width:150px;" type="text"/> Ref Mon # 2 <input style="width:150px;" type="text"/> Ref Mon # 3 <input style="width:150px;" type="text"/>	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250020	Date Monumented 6/6/2023	Monumented By ARDOT	County FULTON	Route 62 / 412	Job Number: 012390
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD83 (2011)		
Northing (M)	227,477.4085	0.0020	
Easting (M)	386,278.5852	0.0020	
Elevation (M)*	283.896		
Northing (SFT)	746,315.4644		
Easting (SFT)	1,267,315.6583		
Elevation (SFT)*	931.414		

Convergence Angle	0	5	20.3473715
Scale Factor	1.000033156		
Elevation Adjust. Factor	0.9999554495		
Combined Adjust. Factor	0.9999886040		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	154	49.99	164.0
MK # 2	GUY POLE	356	38.40	126.0
MK # 3				

Area Reference Monuments (used for Processing) <table style="width: 100%;"> <tr> <td style="width: 15%;">Ref Mon # 1</td> <td>ARM3</td> </tr> <tr> <td>Ref Mon # 2</td> <td>ARHR</td> </tr> <tr> <td>Ref Mon # 3</td> <td>ARMB,MOAT</td> </tr> </table>	Ref Mon # 1	ARM3	Ref Mon # 2	ARHR	Ref Mon # 3	ARMB,MOAT	<table border="1" style="width: 100%; height: 100px;"> <tr> <th style="text-align: center;">Comments</th> </tr> </table>	Comments
Ref Mon # 1	ARM3							
Ref Mon # 2	ARHR							
Ref Mon # 3	ARMB,MOAT							
Comments								

Vertical Determined By: 3rd Order - 3 Wire Levels

Elevation Datum: NAVD 88

Geoid Datum: GEOID18

Latitude 36 23 0.8363544

Longitude 92 9 10.5204528

Ellipsoid Height (M): 255.577 0.0110

Geoid Height (M): -28.319

Location Description

FROM THE INTERSECTION OF U.S. HIGHWAY 62/ 412 AND ARKANSAS STATE HIGHWAY 87 NEAR GEPP IN FULTON COUNTY ARKANSAS TRAVEL WEST ALONG U.S. HIGHWAY 62/412, 2.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS A STANDARD ARDOT GPS MONUMENT STAMPED 250020, 2023 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/8 IN. REBAR 4 FT. IN LENGTH. THE MONUMENT IS 57 FEET EAST OF THE CENTERLINE OF U.S. HIGHWAY 62/412 AND 48 FEET SOUTH OF THE CENTERLINE OF OAK RIDGE DRIVE NEAR THE FULTON AND BAXTER COUNTY LINE.

AZ Mark Station	250020A
Geodetic Azimuth	169 27 25.6
Grid Azimuth	169 32 45

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250020A	Date Monumented 6/6/2023	Monumented By ARDOT	County FULTON	Route 62 / 412	Job Number: 012390
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD83 (2011)		
Northing (M)	227,038.5722	0.0020	
Easting (M)	386,359.5557	0.0020	
Elevation (M)*			
Northing (SFT)	744,875.7156		
Easting (SFT)	1,267,581.3090		
Elevation (SFT)*			

Convergence Angle	0	5	18.4411767
Scale Factor	1.000032195		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description			
<p>FROM THE INTERSECTION OF U.S. HIGHWAY 62/ 412 AND ARKANSAS STATE HIGHWAY 87 NEAR GEPP IN FULTON COUNTY ARKANSAS TRAVEL WEST ALONG U.S. HIGHWAY 62/412, 2.5 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD ARDOT GPS MONUMENT STAMPED 250020A 2023 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/8 IN. REBAR 4 FT. IN LENGTH. THE MONUMENT IS 37 FEET WEST OF THE CENTERLINE OF U.S. HIGHWAY 62/412 AND 47 FEET NORTH OF THE CENTERLINE OF ARBER LANE.</p>			

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE	4	19.81	65.0	AZ Mark Station 250020
MK # 2	SOUTH END OF A 18 IN. CORIGATED META L PIPE	176	11.28	37.0	Geodetic Azimuth 349 27 25.6
MK # 3	SOUTH EAST CORNER OF A CONCRETE DRI VEWAY	305	18.29	60.0	Grid Azimuth 349 32 45

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARM3 Ref Mon # 2 ARHR Ref Mon # 3 ARMB,MOAT	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250021	Date Monumented 6/6/2023	Monumented By ARDOT	County FULTON	Route 62 / 412	Job Number: 012390
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Zone Arkansas North	Zone Code 301	
Horizontal Datum	NAD83 (2011)	
Northing (M)	227,373.9981	0.0020
Easting (M)	388,743.9025	0.0020
Elevation (M)*	258.112	

Northing (SFT)	745,976.1921	
Easting (SFT)	1,275,403.9535	
Elevation (SFT)*	846.824	

Convergence Angle	0	4	22.7877695
Scale Factor	1.000032937		
Elevation Adjust. Factor	0.9999594954		
Combined Adjust. Factor	0.9999924311		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

FROM THE INTERSECTION OF U.S. HIGHWAY 62/ 412 AND ARKANSAS STATE HIGHWAY 87 NEAR GEPP IN FULTON COUNTY ARKANSAS TRAVEL WEST ALONG U.S. HIGHWAY 62/412, 0.7 MILES TO THE STATION ON THE RIGHT. THE STATION IS A STANDARD ARDOT GPS MONUMENT STAMPED 250021, 2023 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/8 IN. REBAR 4 FT. IN LENGTH. THE MONUMENT IS 35 FEET NORTH WEST OF THE CENTERLINE OF U.S. HIGHWAY 62/412 AND 5 FEET SOUTH EAST OF A 4 FOOT WOVEN WIRE FENCE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE PEDESTAL	118	23.77	78.0
MK # 2	COMBINATION POLE	39	46.94	154.0
MK # 3	COMBINATION POLE	238	56.39	185.0

AZ Mark Station	250021A
Geodetic Azimuth	54 26 02.7
Grid Azimuth	54 30 20.8

<p style="text-align: center; margin: 0;">Area Reference Monuments (used for Processing)</p> <p>Ref Mon # 1 ARM3</p> <p>Ref Mon # 2 ARHR</p> <p>Ref Mon # 3 ARMB,MOAT</p>	<p style="text-align: center; margin: 0;">Comments</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 250021A	Date Monumented 6/6/2023	Monumented By ARDOT	County FULTON	Route 62 / 412	Job Number: 012390
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD83 (2011)		
Northing (M)	227,661.1678	0.0020	
Easting (M)	389,146.5854	0.0020	
Elevation (M)*			
Northing (SFT)	746,918.3480		
Easting (SFT)	1,276,725.0889		
Elevation (SFT)*			

Convergence Angle	0	4	13.3948750
Scale Factor	1.000033569		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE PEDESTAL	221	14.46	47.4
MK # 2	COMBINATION POLE	64	25.30	83.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARM3	
Ref Mon # 2 ARHR	
Ref Mon # 3 ARMB,MOAT	

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	GEOID18
Latitude	36 23 6.9271296
Longitude	92 7 15.4618572
Ellipsoid Height (M):	236.605 0.0100
Geoid Height (M):	-28.302

Location Description
<p>FROM THE INTERSECTION OF U.S. HIGHWAY 62/ 412 AND ARKANSAS STATE HIGHWAY 87 NEAR GEPP IN FULTON COUNTY ARKANSAS TRAVEL WEST ALONG U.S. HIGHWAY 62/412,0.5 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD ARDOT GPS MONUMENT STAMPED 250021A, 2023 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/8 IN. REBAR 4 FT. IN LENGTH. THE MONUMENT IS 35 FEET SOUTH EAST OF THE CENTERLINE OF U.S. HIGHWAY 62/412 AND 5 FEET NORTHWEST OF A BARBED WIRE FENCE.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 520010	Date Monumented 9/4/2024	Monumented By ARDOT	County OUACHITA	Route 79B	Job Number: 070621
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	505,508.8750	0.0020			
Easting (M)	328,035.5664	0.0020			
Elevation (M)*					
Northing (SFT)	1,658,490.3674				
Easting (SFT)	1,076,230.0208				
Elevation (SFT)*					

Convergence Angle	0	26	2.6200903
Scale Factor	0.999945032		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM	CONSTRAINED TO POSITIONS ON GPS POINTS 520009 & 520009A
Ref Mon # 2 AREL	
Ref Mon # 3 ARGS, 520009, 520009A	

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID 18
Latitude	33 36 55.7593560
Longitude	92 46 31.9351296
Ellipsoid Height (M):	9.708 0.0040
Geoid Height (M):	-26.257 0.0040

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND 79B, GO WEST ON 79B FOR 0.2 MILES TO THE 79 SOUTH ON RAMP FOR EAST BOUND TRAFFIC ON 79B TO USE. THE MARK IS ON THE LEFT/NORTH, THE STATION IS 30.6' NORTH OF THE CENTERLINE OF 79B ON RAMP. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2024 520010" SET ON TOP OF A 4" BY 5/8" REBAR DRIVEN 0.10" BELOW THE SURFACE.</p>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 520010A	Date Monumented 9/4/2024	Monumented By ARDOT	County OUACHITA	Route 79B	Job Number: 070621
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	505,260.3175 0.0020
Easting (M)	327,810.9859 0.0020
Elevation (M)*	

Northing (SFT)	1,657,674.8917	
Easting (SFT)	1,075,493.2096	
Elevation (SFT)*		

Convergence Angle	0	26	7.4553806
Scale Factor	0.999945319		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

 TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND 79B, GO WEST ON 79B FOR 0.2 MILES TO THE MARK ON THE RIGHT/NORTH, THE STATION IS 35.5' NORTH OF THE CENTERLINE OF 79B, AND 25.0' SOUTH OF THE CENTERLINE OF THE 79B WEST ON RAMP. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2024 520010A" SET ON TOP OF A 4' BY 5/8" REBAR DRIVEN 0.10" BELOW THE SURFACE.

Location Reference Marks						
Description		Azimuth	Distance		AZ Mark Station	520010
			Meters	Feet		
MK # 1					Geodetic Azimuth	
MK # 2						
MK # 3						

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARCM Ref Mon # 2 AREL Ref Mon # 3 ARGS, 520009, 520009A	CONSTRAINED TO POSITIONS ON GPS POINTS 520009 & 520009A <div style="height: 100px; border: 1px solid black;"></div>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360224	Date Monumented 10/29/2024	Monumented By ARDOT	County JOHNSON	Route CR 5440	Job Number: FA3611
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	149,510.4594	0.0010	
Easting (M)	264,406.9312	0.0010	
Elevation (M)*			
Northing (SFT)	490,518.8989		
Easting (SFT)	867,475.0734		
Elevation (SFT)*			

Convergence Angle	0	52	17.6957680
Scale Factor	0.999937096		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FE COR POST	240	36.14	118.6
MK # 2				
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS SITES ARFY, ARHR, AROZ & ARR V BY S5103 IN OCT. 2024 FOR JOB #FA3611
Ref Mon # 2 ARHR	
Ref Mon # 3 AROZ, ARR V	

AZ Mark Station	360224A
Geodetic Azimuth	
Grid Azimuth	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 360224A	Date Monumented 10/29/2024	Monumented By ARDOT	County JOHNSON	Route CR 5440	Job Number: FA3611
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	149,635.1264 0.0010
Easting (M)	264,609.6983 0.0010
Elevation (M)*	
Northing (SFT)	490,927.9105
Easting (SFT)	868,140.3185
Elevation (SFT)*	

Convergence Angle	0 52 13.0481671
Scale Factor	0.999937126
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By: GPS - Unknown Quality	
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID 18
Latitude	35 40 22.2142764
Longitude	93 29 44.1774564
Ellipsoid Height (M):	338.468 0.0030
Geoid Height (M):	-28.322 0.0030

Location Description
<p>TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 103 AND STATE HIGHWAY 215 NEAR OARK GO 6.8 MILES EAST ON JOHNSON COUNTY ROAD 5440 TO THE LANGDON FARM DRIVEWAY ON THE RIGHT. THE MARK IS LOCATED IN THE FIELD FARTHEST TO THE NORTHEAST. THE MARK IS 55.5' NE OF WEBWIRE FENCE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2024 360224A" SET ON TOP OF A 4' BY 5/8" REBAR DRIVEN 0.10" BELOW THE SURFACE OF THE GROUND.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	186	30.48	100.0
MK # 2	DROP POLE	263	20.33	66.7
MK # 3	GATE POST	130	20.30	66.6

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARFY Ref Mon # 2 ARHR Ref Mon # 3 AROZ, ARR V	STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS SITES ARFY, ARHR, AROZ & ARR V BY S5103 IN OCT. 2024 FOR JOB #FA3611

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220015 1	Date Monumented 3/11/2025	Monumented By AHTD	County Ashley	Route 189	Job Number: ASHLEY CO. AMH
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	463,043.3878 0.0020
Easting (M)	417,500.4527 0.0020
Elevation (M)*	54.602
Northing (SFT)	1,519,168.1815
Easting (SFT)	1,369,749.4019
Elevation (SFT)*	179.140

Convergence Angle	0 6 18.3166154
Scale Factor	1.000015073
Elevation Adjust. Factor	0.9999914312
Combined Adjust. Factor	1.0000065041

SUPERCEDDED CONTROL	
Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID 18
Latitude	33 14 5.7028776
Longitude	91 48 44.0612640
Ellipsoid Height (M):	28.812 0.0130
Geoid Height (M):	-25.791

Location Description
<p>TO REACH FROM THE INTERSECTION OF WASHINGTON ST AND HWY 189, TRAVEL NORTH ALONG HIGHWAY 189 FOR 0.4 MILES TO THE STATION ON THE RIGHT(EAST) SIDE OF THE ROAD. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 220015, 2015 SET ON TOP OF A 5/8IN REBAR 4FT IN LENGTH SET FLUSH WITH THE GROUND. THE STATION IS 32.5FT EAST OF THE CROWN OF HIGHWAY 189 AND 148FT SOUTH OF THE CROWN OF W FOOTE ST.</p>

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH METER LOOP	285	14.00	45.9
MK # 2				
MK # 3				

AZ Mark Station 220015A_1 Geodetic Azimuth 182 11 01 Grid Azimuth 182 04 43	
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Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHB Ref Mon # 2 ARMO Ref Mon # 3 ARLV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 220015A 1	Date Monumented 3/11/2025	Monumented By AHTD	County Ashley	Route 189	Job Number: ASHLEY CO. AMH
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Zone Arkansas South	Zone Code 302
Horizontal Datum	NAD 83 (2011)
Northing (M)	462,583.6135 0.0030
Easting (M)	417,483.7661 0.0020
Elevation (M)*	54.133

Northing (SFT)	1,517,659.7386	
Easting (SFT)	1,369,694.6559	
Elevation (SFT)*	177.602	

Convergence Angle	0	6	17.9376818
Scale Factor	1.000016075		
Elevation Adjust. Factor	0.9999915048		
Combined Adjust. Factor	1.0000075797		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH FROM THE INTERSECTION OF WASHINGTON ST AND HIGHWAY 189, TRAVEL NORTH ALONG HWY 189 FOR 0.1 MILES TO THE STATION ON THE LEFT (WEST) SIDE OF THE ROAD. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 220015A, 2025 SET ON TOP OF A5/8IN REBAR 4FT IN LENGTH SET FLUSH WITH THE GROUND. THE STATION IS 57FT WEST OF THE CROWN OF HIGHWAY 189 AND 466FT NORTH OF THE CENTER OF A CONCRETE DRIVEWAY TO THE DETENTION CENTER.

Location Reference Marks

	Description	Azimuth	Distance		
			Meters	Feet	
MK # 1	IN GROUND FIBER JUNCTION BOX	270	6.00	19.7	
MK # 2					
MK # 3					

AZ Mark Station	220015_1
Geodetic Azimuth	2 11 01
Grid Azimuth	2 04 43

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARHB	
Ref Mon # 2 ARMO	
Ref Mon # 3 ARLV	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560017	Date Monumented 11/25/2024	Monumented By ARDOT	County POINSETT	Route 1	Job Number: 101193
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	152,183.0668 0.0010
Easting (M)	517,915.5095 0.0010
Elevation (M)*	75.572

Northing (SFT)	499,287.2783		
Easting (SFT)	1,699,194.4674		
Elevation (SFT)*	247.940		

Convergence Angle	0	45	29.4973090
Scale Factor	0.999937900		
Elevation Adjust. Factor	0.9999881404		
Combined Adjust. Factor	0.9999260411		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination Pole	280	1.83	6.0
MK # 2	Utility Marker (ATT UC)	300	3.65	12.0
MK # 3	North End of a 24 inch Corrigated Metal Pipe	170	14.32	47.0

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG Ref Mon # 2 ARWY Ref Mon # 3 AROC	ELEV. BASED ON DIGITAL LEVELS FROM GPS 160017 AND TBM 904 FROM JOB 100979 DURING JOB 101193 BY CREW S5101 IN DEC 2024

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID18
Latitude	35 41 52.9397520
Longitude	90 41 49.3290960
Ellipsoid Height (M):	47.831 0.0030
Geoid Height (M):	-27.743

Location Description
From the Intersection of Interstate Hwy 555 and Arkansas Highway 1 South located in Jonesboro, Craighead County Arkansas, Travel South along Arkansas Highway 1, 5.9 Miles to the Station on the Right. The Station is a Standard 3 inch Aluminum ARDOT GPS Cap Stamped 560017 (2024), Set Just Below the Ground Surface on Top of a 5/8 inch Rebar 4 foot in Length. The Station is 0.5 Miles South of the Craighead and Poinsett County Line, 59 Feet (17.98 Meters) West of the Centerline of Arkansas Highway 1 and 6 Feet (1.83 Meters) East of a Witness Post. Just North of a concrete driveway leading to metal buildings.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 560017A	Date Monumented 11/25/2024	Monumented By ARDOT	County POINSETT	Route 1	Job Number: 101193
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Zone Arkansas North	Zone Code 301		
Horizontal Datum	NAD 83 (2011)		
Northing (M)	152,504.1457	0.0010	
Easting (M)	517,981.9966	0.0010	
Elevation (M)*	75.527		
Northing (SFT)	500,340.6847		
Easting (SFT)	1,699,412.6005		
Elevation (SFT)*	247.790		

Convergence Angle	0	45	31.1345706
Scale Factor	0.999938001		
Elevation Adjust. Factor	0.9999881475		
Combined Adjust. Factor	0.9999261493		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks					
Description		Azimuth	Distance		AZ Mark Station
			Meters	Feet	
MK # 1	Utility Marker (ATT UC)	0	20.73	68.0	560017
MK # 2	Combination Pole	192	27.74	91.0	192 27 27
MK # 3	Sount End of a 24" corrugated Plastic Pipe	50	6.71	22.0	191 41 56.7

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG	ELEV. BASED ON DIGITAL LEVELS FROM GPS 160017 AND TBM 904 FROM JOB 100979 DURING JOB 101193 BY CREW S5101 IN DEC 2024
Ref Mon # 2 ARWY	
Ref Mon # 3 AROC	

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160049	Date Monumented 11/25/2024	Monumented By ARDOT	County CRAIGHEAD	Route 1	Job Number: 101193
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Zone Arkansas North	Zone Code 301				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	160,649.5506	0.0010			
Easting (M)	519,838.8096	0.0010			
Elevation (M)*	84.186				
Northing (SFT)	527,064.4006				
Easting (SFT)	1,705,504.4945				
Elevation (SFT)*	276.201				

Convergence Angle	0	46	16.6504108
Scale Factor	0.999941407		
Elevation Adjust. Factor	0.9999867886		
Combined Adjust. Factor	0.9999281964		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination Pole	288	11.27	37.0
MK # 2	Combination Pole with Light	38	46.02	151.0
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 ARPG Ref Mon # 2 ARWY Ref Mon # 3 AROC	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV. BASED ON DIGITAL LEVELS FROM GPS 160017 AND TBM 904 FROM JOB 100979 DURING JOB 101193 BY CREW S5101 IN DEC 2024</td> </tr> </table>	Comments	ELEV. BASED ON DIGITAL LEVELS FROM GPS 160017 AND TBM 904 FROM JOB 100979 DURING JOB 101193 BY CREW S5101 IN DEC 2024
Comments			
ELEV. BASED ON DIGITAL LEVELS FROM GPS 160017 AND TBM 904 FROM JOB 100979 DURING JOB 101193 BY CREW S5101 IN DEC 2024			

Location Description
From the Intersection of Interstate Hwy 555 and Arkansas Highway 1 South located in Jonesboro, Craighead County Arkansas, Travel South along Arkansas Highway 1, 2.3 Miles to the Station on the Right. The Station is a Standard 3 inch Aluminum ARDOT GPS Cap Stamped 160049 (2024), Set Just Below the Ground Surface on Top of a 5/8 inch Rebar 4 foot in Length. The Station is 76 Feet (23.16 Meters) West of the Centerline of Arkansas Highway 1 and 36 Feet (10.97 Meters) Northeast of a Witness Post. In the lawn of the Free Will Baptist Church

AZ Mark Station	160049A
Geodetic Azimuth	290 49 39.6
Grid Azimuth	290 03 27.5

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 160049A	Date Monumented 11/25/2024	Monumented By ARDOT	County CRAIGHEAD	Route 1	Job Number: 101193
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Zone Arkansas North	Zone Code 301
Horizontal Datum	NAD 83 (2011)
Northing (M)	160,793.2758 0.0010
Easting (M)	519,445.1607 0.0010
Elevation (M)*	89.289

Northing (SFT)	527,535.9390		
Easting (SFT)	1,704,212.9981		
Elevation (SFT)*	292.944		

Convergence Angle	0	46	7.5753890
Scale Factor	0.999941485		
Elevation Adjust. Factor	0.9999859878		
Combined Adjust. Factor	0.9999274736		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

 From the Intersection of Interstate Hwy 555 and Arkansas Highway 1 South located in Jonesboro, Craighead County Arkansas, Travel South along Arkansas Highway 1, 2.9 Miles to South Caraway Road, Then Travel North along South Caraway Road 0.5 Miles to the Station on the Right. The Station is a Standard 3 inch Aluminum ARDOT GPS Cap Stamped 160049A (2024), Set Just Below the Ground Surface on Top of a 5/8 inch Rebar 4 foot in Length. The Station is 41 Feet (12.50 Meters) East of the Centerline of South Caraway Road and 50 Feet (15.24 Meters) North of a Witness Post. 25 feet South of the centerline of an asphalt drive leading to the Pentecostals of Jonesboro Church.

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination Pole	190	15.24	50.0
MK # 2		172	15.24	50.0
MK # 3				

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 ARPG Ref Mon # 2 ARWY Ref Mon # 3 AROC	ELEV. BASED ON DIGITAL LEVELS FROM GPS 160017 AND TBM 904 FROM JOB 100979 DURING JOB 101193 BY CREW S5101 IN DEC 2024

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 500009A	Date Monumented 3/13/2025	Monumented By AHTD	County Nevada	Route 371	Job Number: 030650
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	519,020.2729	0.0010			
Easting (M)	273,494.9269	0.0010			
Elevation (M)*	70.379				
Northing (SFT)	1,702,819.0120				
Easting (SFT)	897,291.2727				
Elevation (SFT)*	230.902				

Convergence Angle	0	45	50.7059826
Scale Factor	0.999932303		
Elevation Adjust. Factor	0.9999889553		
Combined Adjust. Factor	0.9999212591		

SUPERCEDED CONTROL			
Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks				
Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PHONE BOX	150	19.00	62.3
MK # 2	COMBINATION POLE	236	17.00	55.8
MK # 3				

Area Reference Monuments (used for Processing) Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Comments</th> </tr> <tr> <td>ELEV EST. BY STATIC OBS HOLDING ORTHO HEIGHT AT ARHP TO GPS PN:500009. DIGITAL LEVELS WERE RAN FROM 500009 TO EST. ELEV ON PN:500009A</td> </tr> </table>	Comments	ELEV EST. BY STATIC OBS HOLDING ORTHO HEIGHT AT ARHP TO GPS PN:500009. DIGITAL LEVELS WERE RAN FROM 500009 TO EST. ELEV ON PN:500009A
Comments			
ELEV EST. BY STATIC OBS HOLDING ORTHO HEIGHT AT ARHP TO GPS PN:500009. DIGITAL LEVELS WERE RAN FROM 500009 TO EST. ELEV ON PN:500009A			

Location Description
FROM THE INTERSECTION OF HIGHWAY 371 AND HIGHWAY 53, TRAVEL NORTH ALONG HIGHWAY 371 FOR 2.1 MILES TO THE STATION ON THE LEFT (WEST) SIDE OF THE ROAD. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 500009A, 2025 SET ON TOP OF A 5/8IN REBAR 4FT IN LENGTH SET FLUSH WITH THE GROUND. THE STATION IS 16FT W OF THE CENTERLINE OF HIGHWAY 371 AND 18FT E OF A NET WIRE FENCE.

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station 500009	Date Monumented 3/13/2025	Monumented By AHTD	County Nevada	Route 371	Job Number: 030650
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Zone Arkansas South	Zone Code 302				
Horizontal Datum	NAD 83 (2011)				
Northing (M)	518,847.0130	0.0010			
Easting (M)	273,545.9778	0.0010			
Elevation (M)*	68.058				
Northing (SFT)	1,702,250.5752				
Easting (SFT)	897,458.7622				
Elevation (SFT)*	223.287				

Convergence Angle	0	45	49.5458553		
Scale Factor	0.999932445				
Elevation Adjust. Factor	0.9999893196				
Combined Adjust. Factor	0.9999217653				

SUPERCEDED CONTROL					
Horizontal Datum					
Latitude					
Longitude					
Ellipsoid Height:					
Grid Northing (Meters)					
Grid Easting (Meters)					

Location Description					
<p>TO REACH FROM THE INTERSECTION OF HIGHWAY 371 AND HIGHWAY 53, TRAVEL NORTH ALONG HIGHWAY 371 FOR 1.9 MILES TO THE STATION ON THE RIGHT(EAST) SIDE OF THE ROAD. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 500009, 2025 SET ON TOP OF A 5/8IN REBAR 4FT IN LENGTH SET FLUSH WITH THE SURFACE OF THE GROUND. THE STATION IS 17FT E OF THE CENTERLINE OF HIGHWAY 371 AND 42FT S OF THE CROWN OF A GRAVEL DRIVEWAY.</p>					

Location Reference Marks					
Description		Azimuth	Distance		
			Meters	Feet	
MK # 1	COMBINATION POLE	323	16.00	52.5	AZ Mark Station
MK # 2	SOUTH END OF A 24IN PLASTIC CULVERT	197	8.00	26.2	Geodetic Azimuth
MK # 3					Grid Azimuth

Area Reference Monuments (used for Processing)	Comments
Ref Mon # 1 <input style="width: 150px;" type="text"/> Ref Mon # 2 <input style="width: 150px;" type="text"/> Ref Mon # 3 <input style="width: 150px;" type="text"/>	<p>ELEV EST. BY STATIC OBS HOLDING ORTHO HEIGHT AT ARHP.</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>

* IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES